



SITE INVESTIGATION REPORT

**90 Bay Spring Avenue
Barrington, Rhode Island**

RIDEM Case No. 2013-024

Prepared for:

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TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Objective	1
1.2	Notice of Release(s)	1
1.3	Short Term Response Action(s).....	1
1.4	Documentation of past incidents, releases, or investigations	3
2.0	GENERAL SITE INFORMATION	5
2.1	Owner/Operator History.....	5
2.2	Previously Existing Environmental Information	7
2.3	Current Use and Zoning	7
2.4	Site Location	7
3.0	GENERAL CHARACTERIZATION OF SITE AND SURROUNDING AREA	7
4.0	NATURE AND EXTENT OF CONTAMINATION	8
4.1	Additional Subsurface Investigation(s).....	8
4.2	Classification of Surface and Ground Water	9
4.3	Description of Contamination	9
4.4	Concentration Gradients.....	11
4.5	Background Concentrations of Hazardous Substances	11
4.6	Site Specific Hydrogeological Properties	11
4.7	Topography, Surface Water and Run-Off Flow Patterns, Flooding Potential.....	11
4.8	Entrainment and Volatilization of Hazardous Substances.....	12
4.9	Management of Investigation Derived Waste.....	12
5.0	QUALITY ASSURANCE AND QUALITY CONTROL EVALUATION	12
6.0	CONCLUSIONS	13
7.0	REMEDIAL ALTERNATIVE RECOMMENDATION	14
8.0	LIMITATIONS	14
9.0	REPORT AUTHORIZATION AND CERTIFICATION REQUIREMENTS	15

FIGURES

Figure 1	Locus Map
Figure 2	Site Plan
Figure 3	Historical Aerial Photographs
Figure 4	Historical Sanborn Maps
Figure 5	Water Table Elevation Contour Map

TABLES

Table 1	Summary of Soil Analytical Results
Table 2	Summary of Groundwater Analytical Results
Table 3	Well Monitoring Form

APPENDICES

Appendix A	RIDEM SIR Checklist (Completed)
Appendix B	Copy of Release Notification Form
Appendix C	Supporting Documentation
Appendix D	Copy of Letter of Responsibility
Appendix E	Laboratory Analytical Reports
Appendix F	Drilling Logs
Appendix G	Waste Disposal Documentation
Appendix H	Photo Log
Appendix I	Additional Limitations

1.0 INTRODUCTION

On behalf of Bay Spring Realty Co., Resource Control Associates, Inc. (Resource Controls) has prepared this Site Investigation Report (SIR) for the property located at 90 Bay Spring Avenue in Barrington, Rhode Island (the Site). This report was prepared in compliance with Sections 7.00 and 8.00 of the Rhode Island Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases, (Remediation Regulations), as amended November 2011.

ASTM Phase I & II Environmental Site Assessment activities were conducted at the site in 2012/3. Recognized Environmental Conditions associated with former artificial leather manufacturing operations were identified and evaluated during the ASTM assessment activities. Several suspect structures were identified and metals and polycyclic aromatic hydrocarbons (PAHs) were detected in soil and groundwater above applicable RIDEM standards.

1.1 Objective (7.03.A)

The objective of the Site Investigation was to further evaluate Recognized Environmental Conditions identified during ASTM efforts, to adequately assess the nature and extent of contamination identified at the Site, and to evaluate and identify a proposed remedy for each release. Resource Controls conducted Site Investigation activities and prepared this report using the following general approach.

- Collection and analysis of soil and groundwater samples to evaluate the nature and extent of contamination at the Site.
- Completion of a UST closure, short-term response actions, and characterization of soil and groundwater for the purpose of off-site disposal.
- Preparation of an SIR with completed SIR checklist and an evaluation of remedial alternatives.

The Site is graphically represented on Figure 1 (Locus Map) and Figure 2 (Site Plan). A completed SIR Checklist is included as Appendix A.

1.2 Notification of Release(s) (7.03.B)

On May 16, 2013, on behalf of Bay Spring Realty Co., Resource Controls submitted a Hazardous Release Notification Form to the RIDEM Office of Waste Management for the detection of arsenic and polycyclic aromatic hydrocarbons (PAHs) above RIDEM's Method 1 Direct Exposure Criteria in soil samples (MW-4/S-6 at 5.0 feet, RCA-1 at 0.5-2.0 feet, and RCA-3 at 0.5-2.0 feet) and the detection of dissolved arsenic above the RIDEM GA Groundwater Objective in a groundwater sample (MW-4). As indicated on the Release Notification Form, the source of PAH and arsenic contamination is attributed to the former use of the Site as an artificial leather manufacturer. A copy of the Release Notification Form is included as Appendix B. A copy of the ASTM Phase I and II ESA is provided as Appendix C.

On May 24, 2013, the RIDEM issued a Letter of Responsibility (LOR) to Bay Spring Realty Company for the "proper investigation and remediation of hazardous substances" on Site. A copy of the LOR is included as Appendix D.

1.3 Short Term Response Action(s) (7.03.B & 6.09)

On April 2, 2014, in accordance with the Remedial Regulations and the LOR, Resource Controls began additional subsurface investigation activities, as presented in Section 4.0 of this report. Investigation activities included the advancement of test pits and soil borings and the installation of monitoring wells to determine the nature and extent of identified releases at the Site.

During the advancement of test pits in suspect waste disposal/storage areas, contaminants were discovered and the following short-term response actions were implemented:

- Excavation and off-site disposal of arsenic and PAH impacted soil in two (2) locations in the western portion of the property along Adams Avenue (AOCs-2&3).
- Excavation and off-site disposal of suspect metals impacted soil from Waste Disposal Area No.1 in the southern portion of the property (AOC-4).
- Excavation and disposal of solid waste, degraded containers, and VOC impacted soil and water from the suspect “cistern” structure located in the central portion of the Site (AOC-5).
- Excavation and off-site disposal of suspect and degraded steel containers co-mingled with metals impacted soil (impacted from spent acid wastes) from the former facility’s “Benzol House” (AOC-6).

RIDEM management was contacted prior to conducting any of the short term response actions noted above. A description of each effort is detailed below. Excavation and loading services were provided by Apple Valley Sand and Gravel of Smithfield, Rhode Island, and waste transport services were provided by Cyn Environmental. The following table summarizes the waste material derived from remedial activities and transported off-Site:

Matrix	Date Off-Site	Origin	Total Amount Transported	Receiving Facility
Soil	5/30/2014	Western Hot Spots, Waste Disposal Areas No. 1, “Benzol House” – Drum Storage Area,	97.06 tons	RIRRC Landfill Johnston, RI
Waste Water	8/28/2014	“Cistern” Area	3,618 gallons	Tradebe Treatment and Recycling Northeast, LLC Meriden, CT
Soil & Debris (primarily metal)	8/28/2014	“Cistern” Area	6.57 tons	Sunny Farm Landfill, LLC Fostoria, OH
Scrap Metal	6/4/2014	Site-wide	8.02 tons	Mid-City Scrap Iron & Salvage Westport, MA

Western Hot Spots:

On May 21, 2014, soil impacted with arsenic and PAHs were excavated from two areas along the western portion of the Site (RCA-1 and RCA-3). Each area was excavated 10 x 10 x 3-feet deep and confirmatory samples were collected from the sidewalls and the base of each excavation. Confirmatory results indicate that the significantly impacted soil has been removed from the area and only residually impacted soil remains. A soil ample collected along the southern sidewall of the RCA-1 excavation has an arsenic concentration of 7.3 mg/kg, which exceeds the RIDEM Residential and Industrial/Commercial criteria of 7 mg/kg.

Waste Disposal Area No. 1:

Analytical data collected from a test pit (TP-3) advanced during subsurface investigation activities on April 3, 2014 indicated concentrations of arsenic, chromium, lead, and PAHs above the RIDEM Residential and Industrial/Commercial criteria. Solidified coal tar was recognized in the TP-3 area. On May 21, 2014, coal tar and associated impacted soil was removed from the TP-3 area; and confirmatory samples indicate that concentrations of contaminants of concern remain above the RIDEM Industrial/Commercial criteria in Waste Disposal Area No. 1. Solidified coal tar has been removed and no concentrations were found above the RIDEM Upper Concentration Limits.

“Cistern” Area:

On May 21, 2014, decommissioning of the “cistern” disposal structure was initiated. Only arsenic, lead, PAH and TPH contaminants were found in soil immediately adjacent the structure during initial ASTM Phase II ESA work; however, high VOC impacted solid waste was identified inside the structure during decommissioning.

Approximately 50% of the impacted solid waste was removed from within the structure prior to exterior excavation. Solid waste was placed in a lined roll-off container. Impacted soil encountered during the excavation was placed on and under 6-mil poly awaiting characterization. The “cistern” was removed in roughly 5-foot sections and impacted solid waste was removed once accessible. The cylindrical structure was roughly 6-feet in diameter by roughly 15-feet deep and set in a large concrete base observed at 14 to 17-feet below grade. The final excavation area was roughly 30-feet in diameter at grade and 8-feet in diameter at the base, by 15-feet deep.

Dewatering was required to reach depths required to remove the steel “cistern” structure. A sump pump was set within the structure to draw down the water level within the structure pre-removal. A second sump pump setup was used outside of the steel structure for area dewatering during “cistern” removal at depth. All impacted water was piped to a frac tank for pre-disposal storage. During backfilling, a 12-inch diameter slotted sump pipe was set in the center of the former cistern location within approximately 10-cubic yards of ¾-inch stone. Following backfilling and during other field efforts, residual VOC impacted groundwater was pumped from the area into the frac tank.

Confirmatory soil samples suggest that waste material and significantly impacted soil has been removed from the area.

“Benzol House” - Drum Storage Area:

On May 30, 2014, metals impacted soil was excavated and live loaded for disposal at RIRRC landfill. Pre-disposal characterization was conducted on April 2, 2014. The vitrified clay building foundation along with significant metal debris was also removed during the area excavation. Confirmatory samples were collected from excavation sidewalls and base; results indicate that the waste and significantly impacted soil has been removed and managed off-site. Residual arsenic remains in the area at manageable concentrations.

In addition, on April 2, 2014, one (1) approximately 500-gallon single wall steel underground storage tank (UST), was removed in accordance with the RIDEM UST Regulations (AOC-1). The UST was identified during the ASTM activities as a potential waste acid holding tank. Field observations made during removal suggest that the UST was used for steam /water management purposes. UST closure activities were summarized in a UST Closure Assessment Report dated July 24, 2014.

Bills of lading and disposal receipts are included in Appendix G. Photo documentation of the short-term response actions is included as Appendix H.

A recommendation of remediation of hazardous substances found on Site is included in Section 7.0 of this report.

1.4 Documentation of past incidents, releases, or investigations (7.03.C)

A Phase II Oil and Hazardous Waste Assessment for the Site located at 90 Bay Spring Avenue, was completed by Geisser Engineering Corporation (Geisser Engineering) in February 1992. The property investigated during the February 1992 assessment, comprised both an eastern and western section, which are currently designated on the Town of Barrington Tax Assessor’s Tax Map No. 2 as Lot 12 (the property adjoining the Site to the east across the Annawamscutt Brook), and Lot 154 (the Site), respectively. The following is a summary of information obtained from the 1992 Phase II report regarding Lot 154:

- The property was historically owned by the O’Bannon Corporation and produced textile and narrow fabrics in conjunction with another mill located at 85 Bay Spring Avenue.
- Lot 154 (the Site) was historically developed and contained manufacturing buildings, tank farms, storage buildings and sheds. At the time of the inspection, the following observations were noted: a slab of the former nitrated cotton storage building; concrete cradles which historically supported solvent and acid ASTs; a slab of the alcohol still and No. 12 storage building and an opening which may have been an underground acid storage pit; an empty 265-gallon AST located next to the No. 2 Stock House; three (3) electrical transformers owned by the Narragansett Electric Company, which are not expected to contain

PCBs; and a ditch filled with discarded clay pipes and rusted iron debris, which was observed on the southern section of Lot 154.

- In August 1992, one (1) monitoring well (MW-3) was installed on Lot 154 (the Site) to a depth of approximately 20 feet and one (1) monitoring well (MW-4) was installed in the location of the former pickle house on Lot 154 (the Site) due to acid storage tanks were historically located there.
- Two (2) composite soil samples were collected from the two (2) former locations of the solvent and acid tanks. Laboratory analytical results did not indicate any exceedances of applicable RIDEM soil criteria.
- A composite groundwater sample was submitted for laboratory analysis for VOCs, TPH and PCBs. Laboratory analytical results reported a benzene concentration of 6 micrograms per liter (ug/L), which exceeds the applicable RIDEM GA groundwater objective for benzene (5 ug/L). The benzene concentration was not considered an imminent health threat as the property is connected to the municipal water.

An *Update - Environmental Report* for the property located at 90 Bay Spring Avenue was completed by Geisser Engineering in January 1995. Investigation of the property was conducted to address any significant changes or site conditions which may have occurred since the completion of the 1992 Phase II report. Based on the inspections of the property and abutting properties, an interview with a representative of the owners of the property, and a review of environmental records at the RIDEM, Geisser Engineering concluded that the property had not been downgraded or changed for the worst since the completion of the 1992 Phase II site assessment.

A letter regarding "Test pits on Bay Spring Street Property" and dated June 30, 2003 was submitted from Geisser Engineering to Mr. David Malkin with Real Estate Investment, The following is a summary of information obtained from 2003 letter report:

- In May 2003, four (4) test pits (TP-1 through TP-4) ranging in depth from 3-feet to 8-feet were excavated on Lot 154 (the Site).
- A slurry and watery liquid was observed in TP-4, located to the south of the former acid pit area. The slurry appeared to originate from surrounding clay piping. No sample was collected from this location and the nature of the slurry was undetermined.
- Soil samples were collected from test pits as well as shovel-dug hand excavations and submitted for laboratory analysis for RCRA 8 metals and TPH.
- Laboratory analytical results reported arsenic concentrations that exceeded applicable RIDEM Residential Direct Exposure Criteria at all of the sample locations; one (1) exceedance of iron was reported in a sample collected adjacent to the former Pickle Building on the Site.
- Geisser Engineering concluded the following:
 - The Site can be developed with the understanding that underlying debris throughout portions of the property would either have to be removed, or that any proposed structures would have to be supported on pilings.
 - Due to the presence of arsenic detected in soil at or above 24 feet below the surface, certain developed areas will need to be overlain with asphalt or rendered inaccessible.
 - In addition, during the course of construction activities, laboratory analysis of additional soil samples would be needed to characterize any suspicious material.

An ASTM Phase I & II Environmental Site Assessment Report dated December 14, 2012 was completed by Resource Controls. The following summarizes the information provided in the 2012 ESA:

- The Site was historically utilized for industrial purposes including artificial leather manufacturing.

- Five (5) solvent storage tanks, seven (7) acid storage tanks, one (1) acetone storage tank and several spent acid storage tanks in concrete pits were historically located on the Site. Documentation pertaining to the proper closure of these storage tanks was not discovered during site assessment activities.
- During test pit sampling on the Site in 2003, a slurry and watery liquid was observed in test pit TP-4, located to the south of the former acid pit area. The slurry appeared to originate from surrounding clay piping. No sample was collected from this location and the nature of the slurry was undetermined.
- Two (2) groundwater monitoring wells were installed on the Site during a subsurface investigation conducted in 1992. The groundwater sample that was submitted for laboratory analysis for VOCs, TPH and PCBs was a composite of samples from four (4) monitoring wells (two (2) on the Site and two (2) on the property to the east of the Site). Laboratory analytical results reported a benzene concentration of 6 ug/L, which exceeds the applicable RIDEM GA groundwater objective of 5 ug/L.
- The observation of several suspect structures and suspect disposal areas on the Site.
- To further investigate these concerns, Resource Controls developed a scope of work for subsurface investigation to characterize soil and groundwater conditions at the Site, as described below.

On November 21, 2012, Resource Controls conducted a subsurface investigation that included the installation of twelve (12) soil borings, five (5) of which were completed as groundwater monitoring wells., field screening of subsurface soil, and laboratory analysis of selected soil and groundwater samples. Soil boring and monitoring well locations were selected to address recognized environmental conditions identified during ASTM Phase I assessment activities and to maximize coverage of the Site. The locations of the soil borings and monitoring wells are depicted on the Site Plan (Figure 2). Based on field observations, soil screening using a photoionization detector, and sample proximity to locations of identified recognized environmental conditions, selected soil samples were submitted for laboratory analysis of volatile organic compounds (VOCs) by EPA Method 8260B, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270, and RCRA 8 Metals by EPA Methods 7060A, 6010B, and 7470A.

On November 26, 2012 groundwater samples were collected from monitoring wells MW-1 through MW-5 via low flow sampling procedures. Samples were submitted for laboratory analysis of VOCs by EPA Method 8260B. In addition to VOCs, samples collected from monitoring wells MW-3 through MW-5 were submitted for laboratory analysis of semi-volatile organic compounds (SVOCs) by EPA Method 8270C and Total RCRA-8 Metals by EPA Methods 7060A, 6010B, and 7470A. Groundwater samples were collected again from MW-3 and MW-4 on February 13, 2013 and submitted for laboratory analysis of Total and Dissolved RCRA-8 Metals by EPA Methods 7060A, 6010B, and 7470A.

As mentioned in Section 1.2 of this SIR, results of the ASTM Phase II ESA triggered release notification to the RIDEM. Comprehensive SIR data summary tables include ASTM Phase II ESA results.

Copies of the above-noted 2012 Phase I & II ESA Report has been included within Appendix C (Supporting Documentation).

2.0 GENERAL SITE INFORMATION

2.1 Owner/Operator History (7.03.D)

Based on information reviewed at the Town of Barrington Tax Assessor's Office on October 26, 2012, the following provides a list of prior property owners, including a sequence of property transfers, as listed on the property record card.

Owner	Date	Book/Page
Group IV	1986	164/957
Group IV	1986	164/959

Shuster, Ralph (Trust)	1986	164/955
Shuster, Ralph (Trust)	1986	164/956
Bay Spring Realty Company	1992	222/1151
Bay Spring Realty Company	1994	275/264
GHG Fowler, Inc.	1996	319/203
Barrington Cove Limited Partnership	1997	339/114

According to the property record card obtained at the Tax Assessor’s office, the Site is owned by Bay Spring Realty Co. and currently consists of vacant land.

Historical Aerials

Resource Controls reviewed aerial photographs (dated 1939, 1951-1952, 1962, 1981, 1997, 2003 and 2008) available for download through RIGIS. The following table summarizes the information obtained from the aerial photographs:

Year	Summary of Aerial Photographs
1939	The Site appears to be developed with approximately seven (7) buildings located in the northern portion of the Site and a water tower located on the western portion of the Site.
1951-1962	Several Site buildings appear to have been razed with four (4) building and a water tower still present.
1981	The Site appears to be vacant with the exception of one (1) water tower.
1997-2008	The Site appears vacant and in its current configuration.

Copies of the above-noted aerial photographs have been included as Figure 3.

Historical Sanborns

Resource Controls received historic Sanborn fire insurance maps from EDR on October 26, 2012. The following table summarizes the information obtained from the Sanborn maps:

Year	Summary of Sanborn Maps
1921	The Site is labeled as O'Bannon Corporation, manufacturers of artificial leather. The following buildings were identified on the Sanborn fire insurance map: A building, labeled as No. 11, with wash room, dryer house, nitrating department and dehydration department located in the center of the Site; Storage building for nitrated cotton; a 1000-gallon water tower; five (5) solvent storage tanks and one (1) acetone located to the west of the building No. 11; seven (7) acid storage tanks with an adjacent tank scale room located to the southwest of building No. 11; a coating room; laboratory, two (2) spent acid tanks in concrete pad enclosures located immediately south building No. 11; a garage on the southeastern portion of the Site, and; several storage buildings located throughout the Site. The main building, located to the east of the Site, appears to be the main building for the O'Bannon Corporation with at least two (2) coating rooms and a boiler room. A garage is located to the northwest of the Site across Bay Spring Avenue with at least one (1) 500-gallon gasoline UST depicted. Residential properties are located to the west of the Site.
1928	The Site appears to be similarly developed, but with a different property occupant and site usage. The Site is labeled as Collins & Aikman Corporation. All of the buildings on the Site are depicted as vacant with the exception of the main building to the east of the Site, which appears to be used for the storage of cotton yarn. The area to the west of the Site appears to be improved by more residential properties. The garage listed in the 1921 Sanborn appears to be unchanged.
1950	The Site appears changed from with the 1928 Sanborn with several buildings having been razed. Building No. 11, the garage, solvent storage tanks, acetone tanks, spent acid tanks, laboratory and some storage houses appear to have been razed. The main building to the east of the Site is now labeled as "Building". The area to the west of the Site appears to be further developed by residential housing. The garage located to the northwest of the Site appears to be an auto repair facility, with no UST depicted.
1961	The Site appears similar to the 1950 Sanborn with more storage buildings having been razed. The main building to the east of the Site appears to have been converted into loft apartments.

Copies of the above-noted Sanborn Maps have been included as Figure 4.

2.2 Previously Existing Environmental Information (7.03.E)

Available documentation of past incidents, releases or investigations was summarized in Section 1.4.

2.3 Current Use and Zoning (7.03.F)

According to a Zoning Map of the Town of Barrington dated 2011, the eastern portion of the Site is zoned "LM" (limited manufacturing) with a small portion of the western part of the Site zoned "R 10" (Residence 10).

The Site was historically utilized for industrial purposes including artificial leather manufacturing. ASTM Phase I and II site assessment activities and previously existing environmental information indicates that the following hazardous materials were used on the Site:

- Solvents
- Acid
- Acetone
- Cutting oil
- Hydraulic fluid
- Plating solutions and lubricants
- Fuel oil
- Sodium and zinc cyanides

2.4 Site Location (7.03.G & H)

For the purposes of this document, the Site is identified as the 5.57 acre parcel (Tax Map No. 2, Lot 154) located at 90 Bay Spring Avenue in Barrington, Rhode Island. A Locus Map showing the location of the Site relative to pertinent geographic features is included in Figure 1, and a Site Plan depicting relevant Site features is included as Figure 2.

3.0 GENERAL CHARACTERIZATION OF SITE AND SURROUNDING AREA (7.03.I)

The majority of land within 500 feet of the Site is developed, and is primarily occupied by residential properties. The Site is bounded to the south by Drowns Cove and the Providence River. The Site abuts Annawamscutt Brook to the east, beyond which lies an apartment complex. Adams Avenue abuts the Site to the west and Bay Spring Avenue abuts the site to the north, beyond which lies residential properties.

The following information addresses all criteria pertaining to sensitive receptors, as listed in Section 7.03.I on the SIR Checklist (Appendix A).

- The nearest surface water bodies are the Providence River (Drown Cove) and Annawamscutt Brook, which abut the Site to the south and east, respectively. According to the RIDEM Water Quality Regulations, amended December 2010, the Providence River "south of a line from a point on shore due east of Naushon Avenue in Warwick to the western terminus of Beach Road in East Providence and north of a line from Conimicut Point in Warwick to Old Tower at Nayatt Point in Barrington" is classified as SB{a}. Class SB describes seawater "designated for primary and secondary contact recreational activities; shellfish harvesting for controlled relay and depuration; and fish and wildlife habitat. They shall be suitable for aquacultural uses, navigation, and industrial cooling. These waters shall have good aesthetic value." The {a} denotes partial uses by CSO. Therefore, "these waters will likely be impacted by combined sewer overflows in accordance with approved CSO Facilities Plans and in compliance with rule 19.E.1 of these regulations and the Rhode Island CSO Policy. Therefore, primary contact recreational activities; shell fishing uses; and fish and wildlife habitat will likely be restricted."

The RIDEM Water Quality Regulations indicate that the Annawamscutt Brook is classified as “B”. Class B describes freshwater “designated for fish and wildlife habitat and primary and secondary contact recreational activities. They shall be suitable for compatible industrial processes and cooling, hydropower, aquacultural uses, navigation, and irrigation and other agricultural uses. These waters shall have good aesthetic value.”

- According to the RIDEM Environmental Resources Map review on June 25, 2014, the southern portion of the Site is classified as Estuarine Emergent Wetland. Areas classified as Scrub-Shrub Swamp and Forested Wetland are located approximately 300 feet to the northeast of the Site, and local conservation land is located approximately 100 feet to the southwest of the Site. An Environmental Resource Map of the site and surrounding area is included as Figure 5.
- There is currently no source of potable water at the Site.
- According to the State of Rhode Island Department of Health Private Well Information Viewer, nine (9) public water supply wells are known to be located within one (1) mile of the Site. Each is located upgradient of the Site.
- The underlying groundwater classification at the Site and surrounding area is “GA”. “GA” areas are defined as groundwater resources “known or presumed to be suitable for drinking water use without treatment.” Public water is available to the property from both Bay Spring Avenue and Adams Ave.

4.0 NATURE AND EXTENT OF CONTAMINATION

4.1 Additional Subsurface Investigation(s)

As discussed in Section 1.4, soil and groundwater samples were collected in November 2012 and February 2013 were collected to further investigate the concerns identified in the 2012 Phase I ESA. The following AOCs were identified during the ASTM efforts:

- AOC-1: UST Area
- AOC-2: RCA-1 Excavation Area
- AOC-3: RCA-3 Excavation Area
- AOC-4: Waste Disposal Area No. 1
- AOC-5: Cistern
- AOC-6: Drum Storage Area / “Benzol House”
- AOC-7: Waste Disposal Area No. 2
- AOC-8: Acid Storage Tanks
- AOC-9: Solvent Storage Tanks
- AOC-10: “Coating Room”
- AOC-11: “Acetone Tank”
- AOC-12: Surficial Contamination

In response to the May 24, 2013 LOR and following discussion with Mr. Tim Fleury, RIDEM Case Manager for the Site, Resource Controls collected additional soil and groundwater samples to evaluate the AOCs as summarized below. AOC and sample locations are depicted on the Site Plan (Figure 2). Soil and groundwater analytical results are summarized on Tables 1 and 2, and laboratory analytical reports are included as Appendix E.

The following table summarizes subsurface investigation and sampling activities conducted to date:

Date	Description	Analytical Data
11/21/2012	Installation of 12 soil borings, 5 of which were completed as groundwater monitoring wells: S-1/MW-1, S-2, S-3/MW-2, S-4/MW-3, S-5, S-6/MW-4, S-7, S-8, S-9, S-10/MW-5, S-11, S-12	VOCs, PAHs, RCRA Metals
11/26/2012	Sampled newly installed groundwater monitoring wells: MW-1 through MW-5	VOCs, SVOCs, and/or Total RCRA Metals
2/13/2013	Surficial soil sampling: RCA-1 through RCA-3	PAHs and RCRA Metals
2/13/2013	Sampled MW-3 and MW-4	Total and Dissolved RCRA Metals
4/2/2014	UST removal and excavation of impacted soils: S-101, S-102; RCA-1 remedial excavation confirmatory sampling: S-108 through S-112; RCA-3 remedial excavation confirmatory sampling: S-103 through S-107	RCRA Metals, Arsenic, PAHs, and/or TPH
4/3/2014	Advanced 7 test pits to address areas of concern: TP-1 through TP-7; Composite sampling of UST, RCA-1, and RCA-3 stockpiles	RCRA Metals, PAHs, TPH, VOCs, and/or MA Disposal Parameters
5/21/2014	Additional sampling of RCA-1 remedial excavation: S-206 through S-210; Additional sampling of RCA-3 remedial excavation: S-201 through S-205; Remedial excavation of Solid Waste Area No. 1 (TP-3): S-211 through S-216; Advance 7 test pits to address areas of concern: TP-101 through TP-107; Sampling of stockpile from Cistern remedial excavation: Cistern Disposal	PAHs, RCRA Metals, and/or MA Disposal Parameters
5/28/2014	Cistern remedial excavation confirmatory sampling: S-301, S-302	VOCs, PAHs, and RCRA Metals
5/30/2014	Drum Storage Area excavation confirmatory sampling: S-303 through S-307	PAHs and RCRA Metals
5/30/2014	Sampling frac tank containing water from RW-1	TPH, PCBs, SVOCs, VOCs, Total RCRA Metals, Reactive Cyanide, Reactive Sulfide, pH, Flashpoint
6/4/2014	Installation of 6 soil borings, all of which were completed as groundwater monitoring wells: MW-101 through MW-106	VOCs and TPH
6/6/2014	Sampled MW-1, MW-2, MW-3, MW-5 and newly installed MW-101 through MW-106	VOCs and/or Total and Dissolved RCRA Metals
10/9/2014	Sampled MW-3, MW-5, MW-101, MW-104, MW-105 and MW-106	VOCs and/or Dissolved RCRA Metals

4.2 Classification of Surface and Ground Water (7.03.J)

As discussed in Section 3.0, the Providence River (Drown Cove), classified as SB{a}, and Annawamscutt Brook, classified as B, adjoin the Site along its southern and eastern borders, respectively. The underlying groundwater at the Site and surrounding area is classified as “GA”.

Due to the Site’s close proximity to the Providence River and Annawamscutt Brook, it is possible that soil erosion could transport site contaminants to surface water. However, the Site is vegetated near the water bodies and it is Resource Controls’ opinion that impacts to surface water are minimal.

4.3 Description of Contamination (7.03.K)

As discussed in Section 1.2, PAHs and metals were detected in soil at the Site above applicable RIDEM standards during initial subsurface investigations. PAHs, arsenic, chromium, and lead were detected above RIDEM Residential Direct Exposure Criteria in soil samples collected during additional subsurface investigations that occurred between April and June 2014. A summary of soil analytical results is included on Table 1.

Arsenic and lead were detected in groundwater above the RIDEM GA Groundwater Objectives in MW-3, MW-4, and MW-101; and several VOCs were detected above the applicable RIDEM standards in RW-1. A summary of groundwater analytical results is included on Table 2.

The following information is based on the results of site investigation activities and addresses all criteria listed in Section 7.03.K on the SIR Checklist.

- No “free liquids on the surface” were observed at the Site.

- Solidified coal tar was observed at AOC-4: Waste Disposal Area No. 1. This material was managed off-site during Short-term Response Actions, detailed in Section 1.3. Non-aqueous phase liquid (NAPL) has not been detected on Site. VOC concentrations reported in groundwater containerized during “cistern” removal efforts suggest that chlorinated solvents were disposed in the “cistern”. Residual VOCs remain in the area of dewatering well RW-1; however, no VOCs were reported in monitoring wells down-gradient of the former “cistern”.
- Concentrations of Hazardous Substances are included on Tables 1 and 2.
- As discussed in Section 3.3, the southern edge of the Site is occupied by wetlands that border the Providence River (Drown Cove). Based on the location of the releases and area topography, impacts to the wetland and surface water features may have occurred in the past. However, Phase II Subsurface Investigation findings suggest that continued impacts to these features is not likely.
- There is no known or suspected contamination of active man-made structures on Site.
- VOC odors were noted during the removal of solid waste and waste water from the “cistern” area. No stained soil was observed on the surface of the Site; however, coal tar and coal ash was noted in the solid waste disposal pit area, and artificial leather tinting residue was noted in the drum storage area (“Benzol House”).
- No stressed vegetation was observed on Site.
- As discussed in Section 1.3, soil was excavated and disposed of off-site during short term response actions. Soil was stockpiled on the Site pending laboratory results and facility acceptance. Waste disposal documentation is presented in Section 4.9 and included as Appendix G.
- Environmental sampling locations are depicted on the Site Plan, included as Figure 2. Soil and groundwater analytical results are presented on Tables 1 and 2, respectively; and copies of laboratory analytical reports are included as Appendix E. Sampling procedures were discussed in Section 1.3 and 4.1.
- A list of Hazardous Substances is included on Table 1. The following Hazardous Substances were detected in one or more soil and/or groundwater sample above RIDEM Residential Direct Exposure Criteria:

acenaphthene	anthracene	benzo(a)anthracene
benzo(a)pyrene	benzo(b)fluoranthene	benzo(k)fluoranthene
benzo[g,h,i]perylene	chrysene	dibenzo(a,h)anthracene
fluoranthene	fluorene	indeno[1,2,3-c,d]pyrene
naphthene	phenanthrene	pyrene
arsenic	cadmium	chromium
lead	mercury	
1,1,1-trichloroethane	1,1,2-trichloroethane	1,1-dichloroethene
1,2-dichloroethane	benzene	carbon tetrachloride
cis-1,2-dichloroethene	ethylbenzene	methyl chloride
tetrachloroethene	toluene	trichloroethene
vinyl chloride	xylenes (total)	

- Less the UST closure (Facility ID: UST #98) described in Section 1.3, based on the information available to date, the Site has not previously been or is currently under the jurisdiction of any program within the RIDEM or the Environmental Protection Agency. A portion of the Site falls within the jurisdiction of the CRMC. Assessment, UST closure, and short term response activities were completed under CRMC Assent No.: A2013-05-183.
- Based on the information available to date, the contamination falls within the jurisdiction of the RIDEM Remediation Regulations.

4.4 Concentration Gradients (7.03.L)

Concentration gradients of hazardous substances detected in soil throughout the site were not detected. Contamination associated with urban fill typically does not form concentration gradients in soil, remaining issues identified at the Site were associated with specific disposal or waste management areas (AOCs) identified during Phase I ESA assessment efforts.

Lead and arsenic groundwater impacts were identified immediately downgradient of bulk or spent acid storage areas. Residual VOCs were not detected in Site monitoring wells, but are expected in the immediate vicinity of RW-1 and the former location of the "cistern". Again, no gradients were established with the limited impacts identified.

Due to the contaminants of concern and the physical setting, significant impacts to other on-site media, surface water or soil-gas, are not anticipated nor have these media been evaluated.

4.5 Background Concentrations of Hazardous Substances (7.03.M)

The RIDEM Remediation Regulations define background as "the ambient concentrations of Hazardous Substances present in the environment that have not been influenced by human activities, or the ambient concentration of Hazardous Substances consistently present in the environment in the vicinity of the Contaminated-Site which are the result of human activities unrelated to Releases at the Contaminated-Site."

No specific investigations have been conducted at the Site to determine background concentrations of Hazardous Substances identified at the Site. However, soil samples collected below the urban fill material (> 3 ft below grade) from outside of areas of concern are considered to be representative of natural, background concentrations. Refer to laboratory data from soil samples S-2, S-101, S-102, S-303, MW-106, TP-2 (4.8'), TP-101 (10'), TP-102 (9.5'), TP-103 (4'), TP-104 (4'), TP-105 (10'), TP-106 (10'), and TP-107 (10').

4.6 Site Specific Hydrogeological Properties (7.03.N)

On June 6, 2014, Resource Controls gauged the depth to the water table at the Site and surveyed the top of casing elevation (TOC) of each monitoring well. The monitoring well TOC elevations were surveyed to an arbitrary benchmark elevation of 100.00 feet. The monitoring wells were most recently gauged on October 9, 2014. Based on well gauging data from October 9, 2010, depth to groundwater at the Site ranges from approximately 7.49 feet below grade to 13.16 feet below grade, and the inferred groundwater flow direction is to the south and southeast. Well monitoring forms documenting the gauging events are included as Table 3. A Water Table Elevation Contour Plan is included as Figure 6.

Native soil identified beneath urban fill, foundations and former facility structures were classified as fine sand with highly conductive hydrogeological properties. Drilling Logs are provided in Appendix F.

4.7 Topography, Surface Water and Run-Off Flow Patterns, Flooding Potential (7.03.O)

The Site is currently undeveloped, and therefore precipitation reaching the ground surface at the Site is expected to either infiltrate or flow off-Site to the south and east towards Drowns Cove and Annawamscutt Brook.

Based on information obtained from the Rhode Island Emergency Management Agency's Floodplain Mapping Tool, the Site is located within an area designated as "VE", "AE", and "0.2 Percent Annual Chance Flood Zone". The southern and eastern portion of the Site is a designated "VE" zone, which is defined as an area with "1 percent chance of flooding in any years and also face[s] hazards associated with coastal storm waves." The "VE" zone is bordered by an "AE" zone, which is defined as an area with "1 percent chance of flooding in any years, and a 26 percent chance of flooding over the life of a 30-year mortgage." The northwestern portion of the Site is a designated "0.2 Percent Annual Chance Flood Zone".

4.8 Entrainment and Volatilization of Hazardous Substances (7.03.P & Q)

Subsurface investigations conducted to date suggest that soil containing PAH and metals is located at depths less than eight (8) inches below grade. Therefore, under current Site conditions, there is potential for transport of Site-related contamination by wind or water erosion. However, since the Site is heavily vegetated, it is Resource Controls' opinion that this transport is minimal at this time. Appropriate erosional controls were utilized during investigation and short term response actions, and should be utilized during future earthwork efforts.

VOCs were detected in groundwater in the area of the former "cistern" waste disposal structure. Short term response actions were conducted to manage significant risks posed by the contaminants. Given the location of the residual VOC at the Site, volatilization of hazardous substances from groundwater into Site structures / indoor air is not expected.

4.9 Management of Investigation Derived Waste (7.03.U)

Resource Controls managed investigation derived waste along with short term response action derived waste. Manifests, bills of lading, and/or waste disposal receipts are included in Appendix G.

5.0 QUALITY ASSURANCE AND QUALITY CONTROL EVALUATION (7.03.V)

The RIDEM Remediation Regulations require a quality assurance and quality control (QA/QC) evaluation summary for sample handling and analytical procedures. As documented herein for the April, May and June 2014 analytical program, the analysis of soil and groundwater samples was completed using USEPA Methods 8260B, 8260C, 8015D, 6010B, 6010C, 1620A, 8270D, 7470A, and 7471B. The laboratory reports, included as Appendix E, document the laboratory QA/QC issues identified for each of the analyses. The following provides a summary of the identified issues:

- Several soil samples were diluted due to the nature of the sample matrix and therefore surrogate recoveries were below the calibration range or were not reported, and elevated reporting limits (RLs) were provided;
- Reporting Limits (RLs) were elevated proportionately due to the matrix issues on a few samples and could not be concentrated to the final method required volume;
- The "Cistern Disposal" sample was diluted to bring the concentration of the target analytes (8260C) within the calibration range;
- Additional samples were also diluted to bring the concentrations within the equipment calibration range. Elevated reporting limits are provided;
- Internal standard responses were outside of acceptance limits for several soil samples; and
- Blank Spike recovery was reported above upper control limits on several samples.

Detailed QA/QC reporting is included with each laboratory report provided in Appendix E. QA/QC issues identified do not significantly affect data usability. With respect to field QA/QC, soil and groundwater samples were collected using Resource Controls' standard operating procedures, which were prepared in accordance with EPA and/or RIDEM requirements. Once collected, the samples were placed in coolers containing ice packs, stored at a temperature of 4°C prior to pickup by the laboratory courier; all samples were managed under chain-of-custody protocol.

6.0 CONCLUSIONS

The following conclusions summarize the findings of this Site Investigation:

- The Site was historically utilized for industrial purposes including artificial leather and textile manufacturing. The Site is currently vacant wooded land and has been fenced and unoccupied since the 1950s/1960s. Remnants of the former manufacturing facility are evident throughout the Site in the form of concrete foundations, concrete AST saddles, steel and clay piping, and associated debris.
- ASTM Phase I ESA activities identified several Recognized Environmental Conditions (REC) at the Site, categorized by the following Areas of Concern (AOCs):
 - AOC-1: UST Area
 - AOC-2: RCA-1 Excavation Area
 - AOC-3: RCA-3 Excavation Area
 - AOC-4: Waste Disposal Area No. 1
 - AOC-5: Cistern
 - AOC-6: Drum Storage Area / “Benzol House”
 - AOC-7: Waste Disposal Area No. 2
 - AOC-8: Acid Storage Tanks
 - AOC-9: Solvent Storage Tanks
 - AOC-10: “Coating Room”
 - AOC-11: “Acetone Tank”
 - AOC-12: Surficial Contamination.
- ASTM Phase II ESA activities were conducted to evaluate the AOCs identified during the Phase I ESA, and metals and PAHs were detected in soil and groundwater above applicable RIDEM standards.
- Site Investigation activities were then conducted to further evaluate the AOCs and to delineate the nature and extent of contamination identified at the Site. Several test pit investigations converted to Short-term Response Actions as noted below:
 - Excavation and off-site disposal of arsenic and PAH impacted soil in two (2) locations in the western portion of the property along Adams Avenue (AOCs-2&3).
 - Excavation and off-site disposal of suspect metals impacted soil from Waste Disposal Area No.1 in the southern portion of the property (AOC-4).
 - Excavation and disposal of solid waste, degraded containers, and VOC impacted soil and water from the suspect “cistern” structure located in the central portion of the Site (AOC-5).
 - Excavation and off-site disposal of suspect and degraded steel containers co-mingled with metals impacted soil (impacted from spent acid wastes) from the former facility’s “Benzol House” (AOC-6).
- One (1) ~500-gallon single wall steel underground storage tank (UST), was removed in accordance with the RIDEM UST Regulations (AOC-1).
- Site Investigation and short-term response action confirmatory data suggests that significant wastes / contaminated soil and groundwater have been removed from the Site. Residual PAH and metals impacted soil, and metals and VOC impacted groundwater remain at the Site, including:
 - AOC-1: UST Area – residual arsenic and lead in groundwater
 - AOC-2 & 3: RCA-1 & 3 Excavation Areas – residual arsenic in soil
 - AOC-4: Waste Disposal Area No. 1 – residual arsenic, lead, chromium, & PAH in soil
 - AOC-5 & 8: Cistern / Acid Storage Tank – residual VOC & lead in groundwater
 - AOC-6: Drum Storage Area / “Benzol House” – residual arsenic in soil
- Refer to Tables 1 and 2 for a cumulative summary of soil and groundwater analytical results for the Site.

7.0 REMEDIAL ALTERNATIVE RECOMMENDATION

Several Short-term Response Actions were conducted during the Site Investigation. A total of 8.02 tons of scrap metal was managed offsite at Mid-City Scrap Iron & Salvage in Westport, Massachusetts; 97.06 tons of metals, PAH, TPH and VOC impacted soil was excavated and transported to the RIRRC Landfill in Johnston, Rhode Island; 6.57 tons of VOC-impacted soil and debris was excavated and transported to Sunny Farm Landfill, LLC in Fostoria, Ohio; and 3,618 gallons of VOC impacted groundwater was managed offsite at Tradebe Treatment and Recycling Northeast, LLC in Meriden, Connecticut.

Resource Controls developed remedial alternatives in compliance with Section 8.0 and Rule 7.04 of the Remediation Regulations. Based on the nature and extent of the contaminants of concern detected at the Site, Resource Controls considered the following remedial alternatives:

- Alternative 1- No additional action. Retain all impacted soil and groundwater on the Site; Site conditions remain unchanged.
- Alternative 2 – Implement engineering and institutional controls (Environmental Land Use Restriction (ELUR) and Soil Management Plan (SMP)) at the Site to limit contact with the impacted soil and groundwater at the Site.
- Alternative 3 – Application of appropriate remedial technologies, including: 1) excavation and off-Site disposal of impacted soil with concentrations above the RIDEM Residential Direct Exposure Criteria, 2) ex-situ treatment of impacted groundwater through pump and treat systems, 3) in-situ chemical oxidation and/or stabilization treatments, 4) installation of reactive barriers, or 5) a combination of these technologies.
- Alternative 4 – A combination of Alternatives 2 & 3.

Natural attenuation monitoring is recommended with Alternatives 2, 3 and 4 .

Resource Controls recommends Alternative 2 (implement engineering and institutional controls) as a cost-effective remedial alternative that is in compliance with the intent of the RIDEM Remediation Regulations, is consistent with current and future land use, and manages actual and potential risks to human health and the environment.

Alternative 2 is recommended following the completion of the remedial efforts discussed in Section 1.3 of this SIR (Short-term Response Actions). Significant issues were addressed under these remedial actions and residual issues shall be managed or monitored as a component of Alternative 2. Engineered barriers shall be defined as a component of future property redevelopment activities conducted in coordination with the RIDEM, CRMC and Barrington Town Planning Department. The application of Alternative 4 shall be considered upon evaluation of natural attenuation monitoring results and discussion with the RIDEM.

8.0 LIMITATIONS

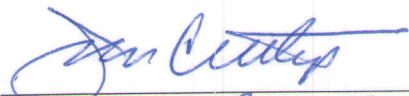
This report addresses the environmental characteristics of the Site with regard to the release of or possible presence of oil and/or hazardous materials. It is not intended to guarantee that the Site is or is not free from conditions, materials or substances that could adversely impact the environment or pose a threat to public health and safety. Rather, it is intended to be used as a summary of available information on existing conditions, the conclusions of which are based upon a reasonable and knowledgeable review of evidence found in accordance with normally accepted industry standards, State and Federal protocols, and within the scope and budget established with the client. Should further research on the Site be warranted, Resource Controls must review any additional data obtained and the conclusions presented herein may be modified accordingly.

The conclusions stated herein are based on the available information summarized herein and refer only to the specific Site investigated. No warranty is implied or given and the report is subject to the terms and conditions of the contract.

9.0 REPORT AUTHORIZATION AND CERTIFICATION REQUIREMENTS [Section 7.05]

This SIR was completed in accordance with Sections 7.00 and 8.00 of the RIDEM Remediation Regulations; the following signed statements are included with regard to this SIR:

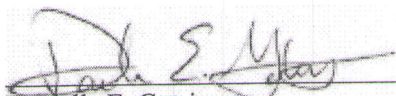
I certify that the Site Investigation Report are complete and accurate representation of the contaminated site and the release and contain all known facts surrounding the release to the best of my knowledge.



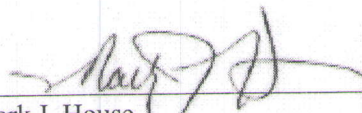
Mr. Jack Cutlip *REAL ESTATE MANAGER*
Bay Spring Realty Co.

We certify that information contained within the Site Investigation Report is complete and accurate to the best of our knowledge. This report has been prepared and reviewed by the undersigned staff in accordance with Resource Controls' standard Quality Control Procedures.

RESOURCE CONTROL ASSOCIATES, INC.



Danielle E. Getsinger
Project Manager and Senior Geologist



Mark J. House
Vice President and Principal Scientist

FIGURES



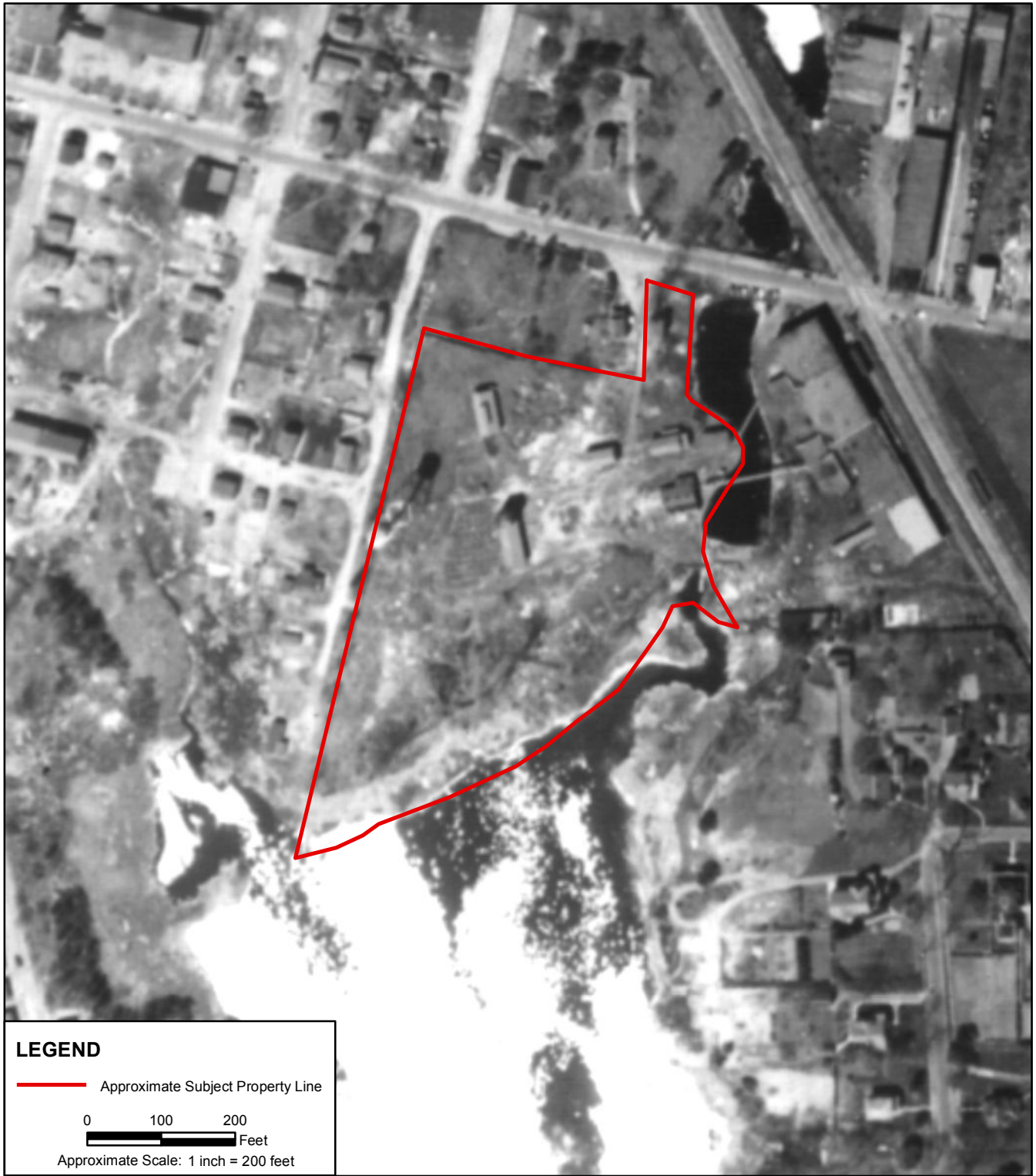
Source: Rhode Island Geographic Information System (RIGIS)
 1955 (Photorevised 1970 and 1975) USGS Topographic Map - Bristol, Rhode Island-Massachusetts Quad

LOCUS MAP


**90 BAY SPRING AVENUE
 BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
EFG	7131A	04/18/2014	1



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1939 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3A



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

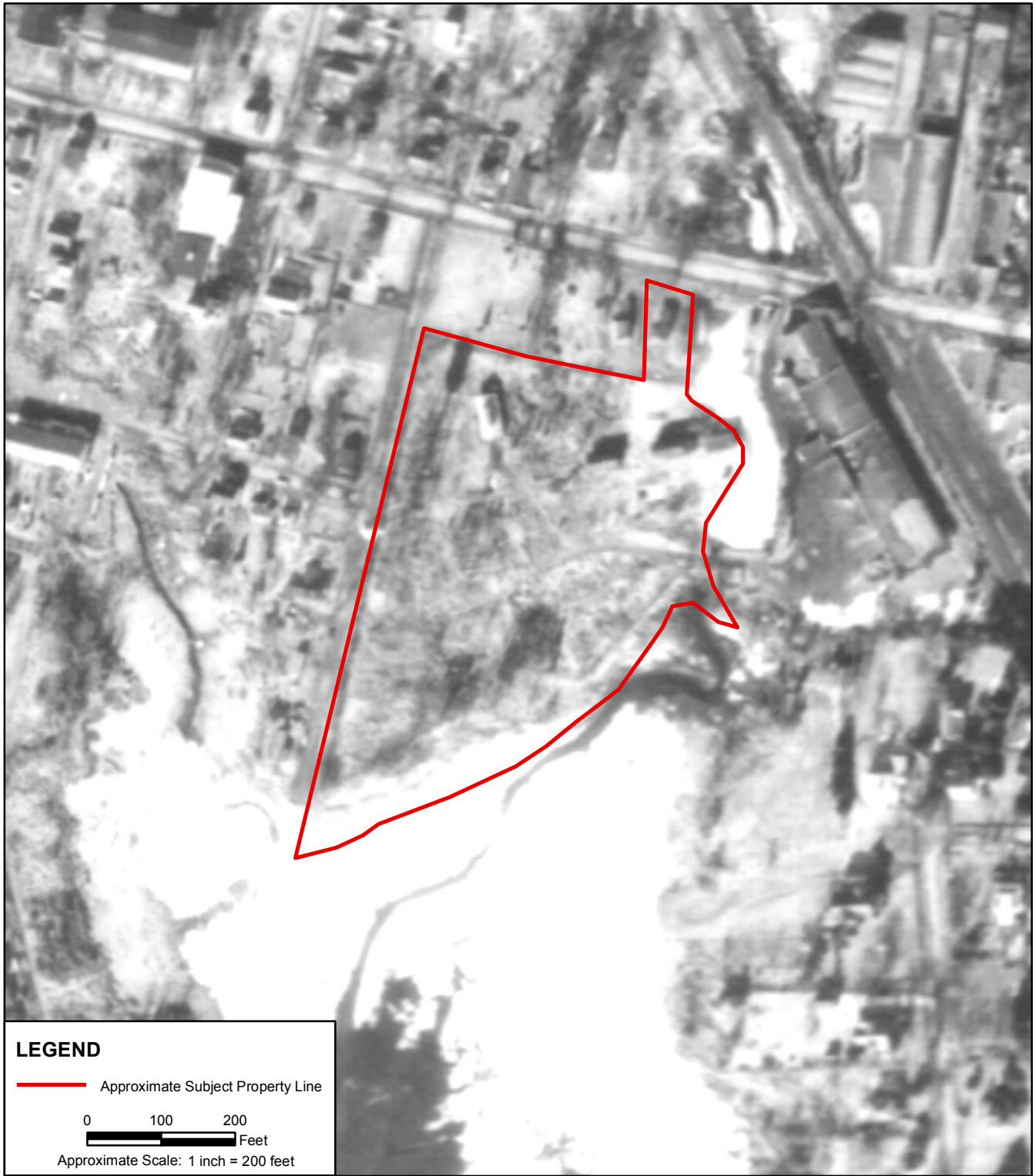
Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1951-52 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3B



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1962 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3C



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1981 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3D



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1997 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3E



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

2003 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3F



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

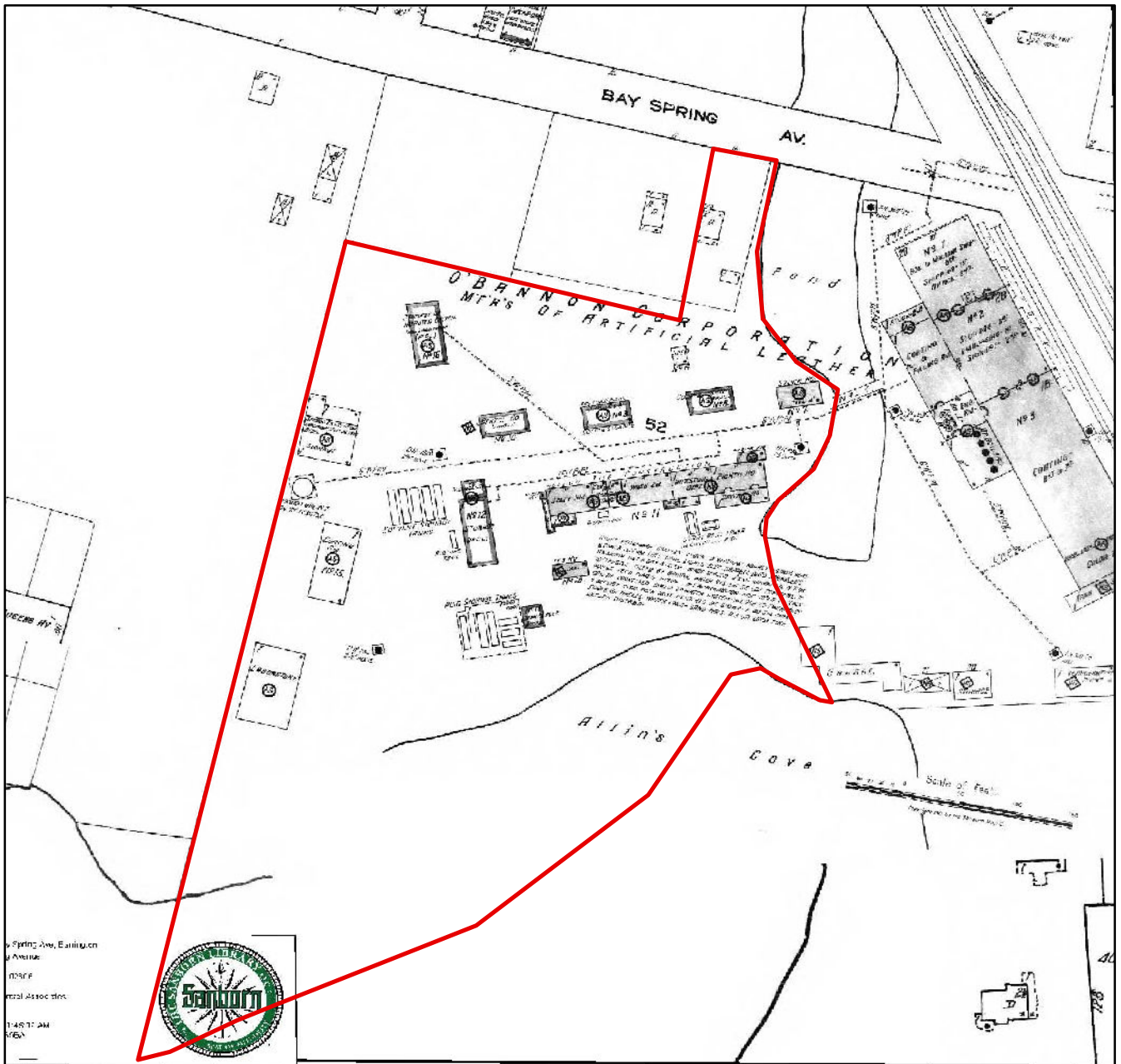
Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

2008 AERIAL PHOTOGRAPH

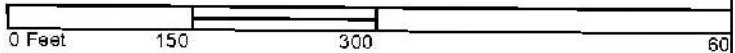
**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**



DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3G



This Sanborn Map combines the following sheets. The numbers indicate map sheets within the collection.



LEGEND

Approximate Subject Property Line

Feet

Approximate Scale: 1 inch = 140 feet

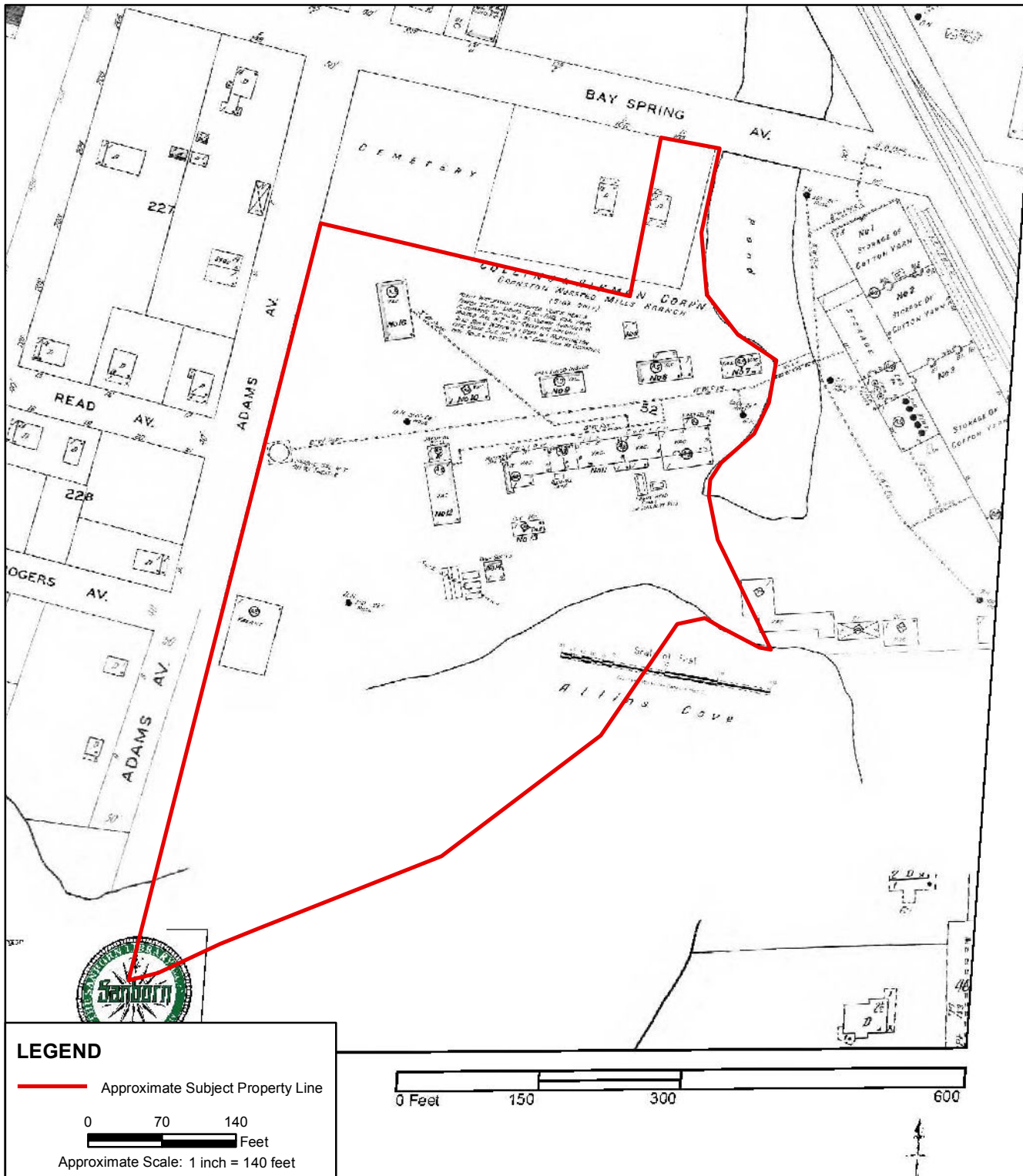
Data Sources: Environmental Data Resources, Inc. (EDR)

1921 SANBORN MAP

**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**



DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	4A



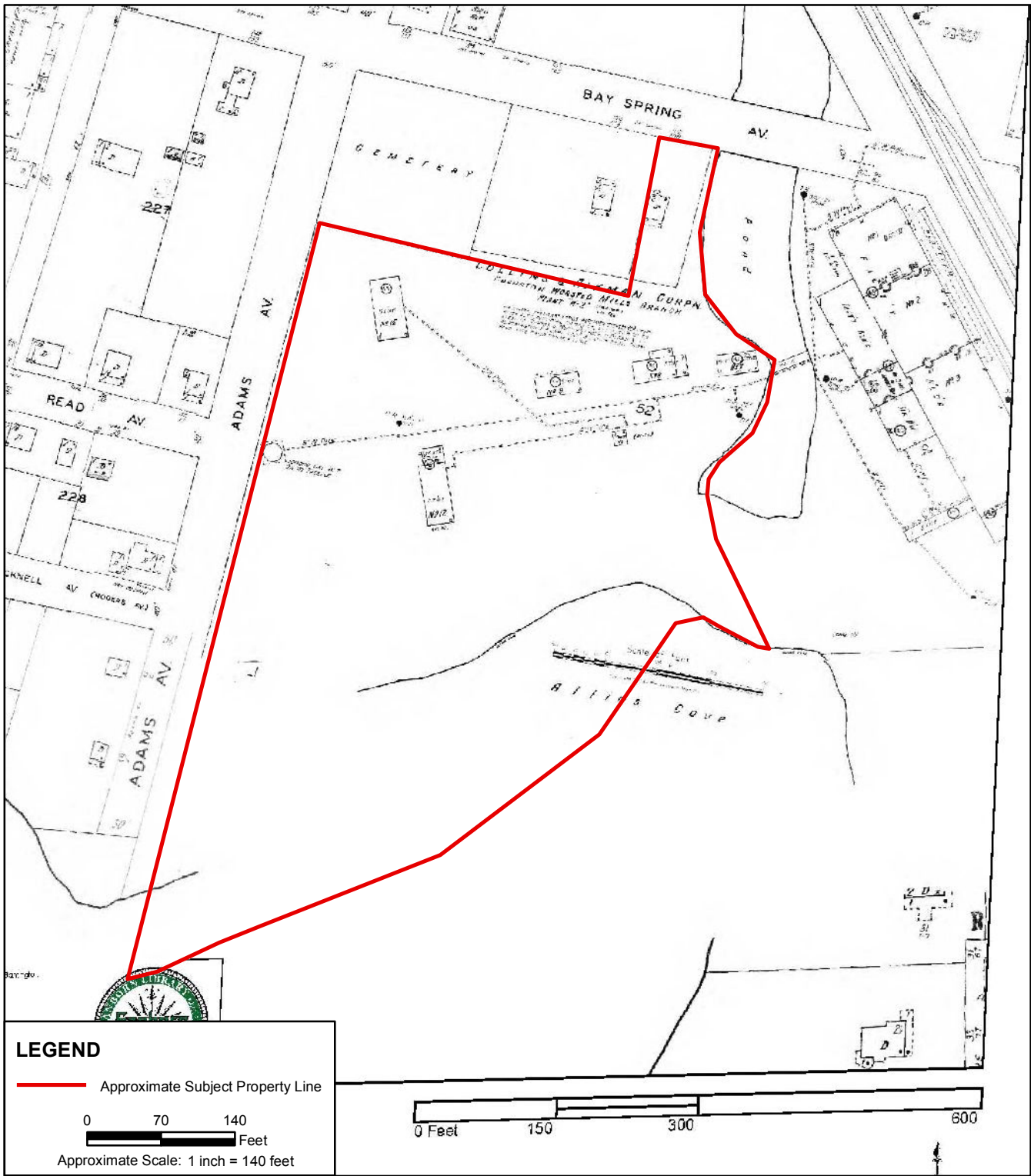
Data Sources: Environmental Data Resources, Inc. (EDR)

1928 SANBORN MAP

**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**

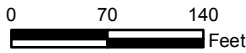


DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	4B

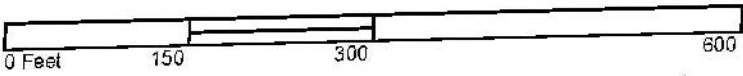


LEGEND

— Approximate Subject Property Line



Approximate Scale: 1 inch = 140 feet



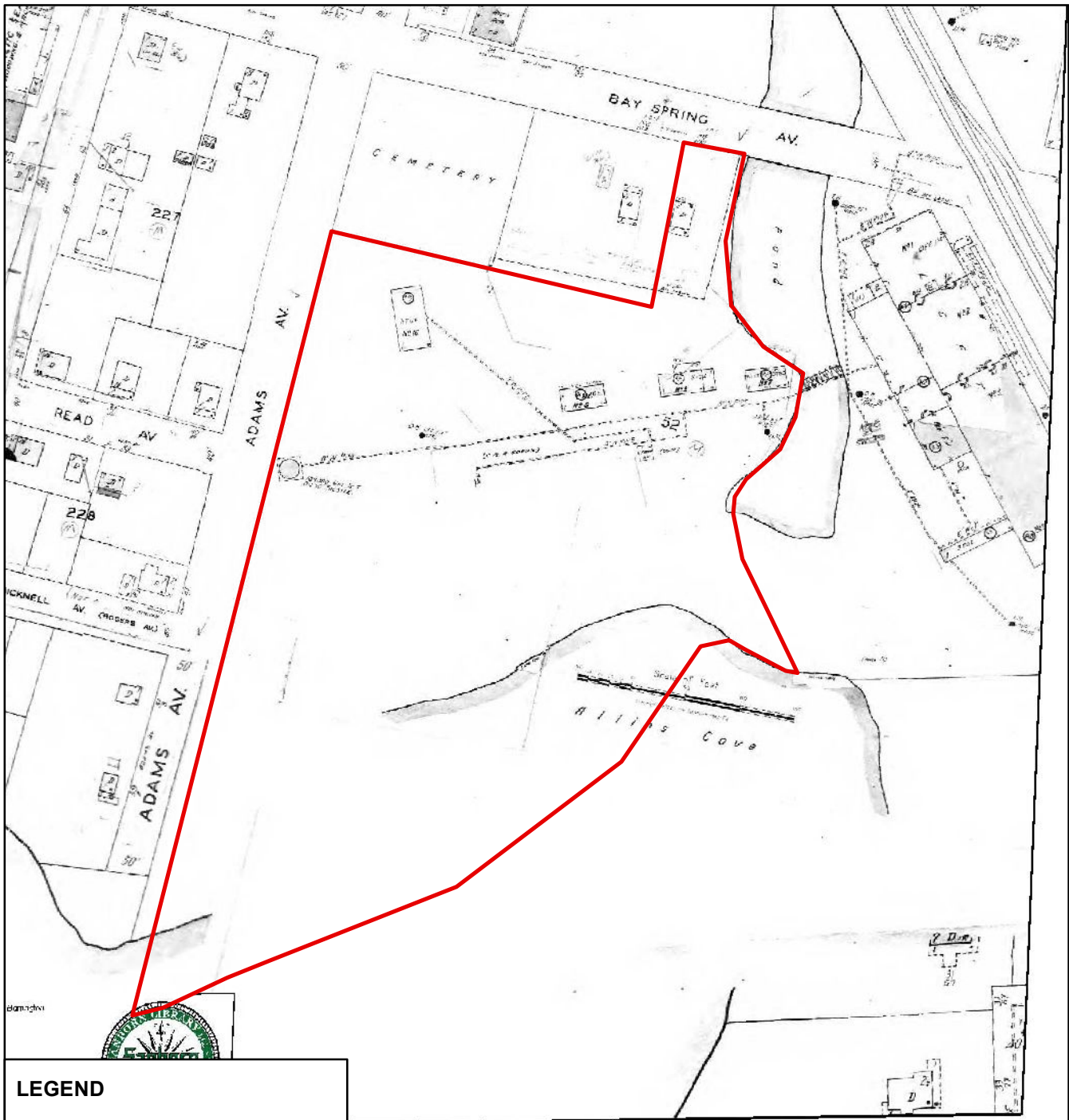
Data Sources: Environmental Data Resources, Inc. (EDR)

1950 SANBORN MAP

**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**

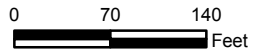


DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	4C



LEGEND

— Approximate Subject Property Line



Approximate Scale: 1 inch = 140 feet



Data Sources: Environmental Data Resources, Inc. (EDR)

1961 SANBORN MAP

**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**



DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	4D

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL

BAY SPRING REALTY CO.
90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND

Sample Identification Depth Sampled (feet) Date Sampled	AOC-5: Cistern					AOC-6: Drum Storage Area/Benzol House							AOC-7: Waste Disposal Area No. 2				AOC-8: Acid Storage Tanks					AOC-9: Solvent Storage Tanks					AOC-10: Coaling Room				AOC-11: Acetone Tank		AOC-12: Surficial Contamination	RIDEM Soil Criteria	
	MW-2/S-3 5.5	TP-8 1-2	TP-8 6	S-301 6-7	S-302 5-6	TN Composite	TP-1 2.5-3.5	S-303 5-6	S-304 2-3	S-305 2-3	S-306 2-3	S-307 5/30/2014	TP-4 1.5-2	TP-5 4.4-5	S-8 5.0	MW-104 5-8	TP-7 2.5	TP-103 2-3	TP-103 4	TP-104 2-3	TP-104 4	TP-9 5-6.6	TP-101 5-5.5	TP-101 10	TP-102 4-5	TP-102 9.5	TP-105 4-5	TP-105 10	TP-106 4-5	TP-106 10	TP-107 5.5	TP-107 10	RCA-2 0.5-1.5	Direct Exposure Criteria	
	11/21/2012	4/3/2014	4/3/2014	5/28/2014	5/28/2014	4/2/2014	4/2/2014	5/30/2014	5/30/2014	5/30/2014	5/30/2014	5/30/2014	4/3/2014	4/3/2014	11/21/2012	6/4/2014	4/3/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	4/3/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	2/13/2013	Residential	IC
VOLATILE ORGANIC COMPOUND																																			
1,1,1-Trichloroethane	<0.0434	--	--	0.0026	0.031	--	--	--	--	--	--	--	--	--	<0.0027	<3.4	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	--	--	--	540	10,000
1,1-Dichloroethane	<0.0434	--	--	0.0027	0.017	--	--	--	--	--	--	--	--	--	<0.0027	<3.4	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	--	--	--	920	10,000
1,1-Dichloroethene	<0.0434	--	--	<0.0053	0.0019	--	--	--	--	--	--	--	--	--	<0.0027	<3.4	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	--	--	0.2	9.5	
1,2,4-Trimethylbenzene	0.0321	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0027	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS	
1,3,5-Trimethylbenzene	0.0165	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.0027	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS		
4-Methyl-2-Pentanone	<0.434	--	--	<0.027	<0.029	--	--	--	--	--	--	--	--	--	<0.0266	<17	--	--	--	--	--	<0.028	--	--	--	--	--	--	--	--	--	1,200	10,000		
Acetone	9.93	--	--	<0.027	<0.029	<0.027	--	--	--	--	--	--	--	--	<0.0266	<17	--	--	--	--	--	0.0062	--	--	--	--	--	--	--	--	--	7,800	10,000		
Chloroform	0.0174	--	--	<0.0053	<0.0059	<0.0054	--	--	--	--	--	--	--	--	<0.0027	<3.4	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	--	1.2	940		
cis-1,2-Dichloroethene	<0.0434	--	--	0.002	0.013	--	--	--	--	--	--	--	--	--	<0.0027	<3.4	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	--	630	10,000		
Ethylbenzene	0.325	--	--	<0.0053	0.0025	<0.0054	--	--	--	--	--	--	--	--	<0.0027	5.3	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	71	10,000			
Isopropylbenzene	0.0426	--	--	<0.0053	<0.0059	<0.0054	--	--	--	--	--	--	--	--	<0.0027	5.5	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	27	10,000			
Methyl acetate	--	--	--	<0.0053	<0.0059	--	--	--	--	--	--	--	--	--	--	<3.4	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	NS	NS			
Methylene Chloride	<0.217	--	--	<0.0053	<0.0059	--	--	--	--	--	--	--	--	--	<0.0133	2.6	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	45	760			
Naphthalene	0.11	--	--	<0.0053	<0.0059	<0.0054	--	--	--	--	--	--	--	--	<0.0027	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	54	10,000			
Styrene	0.127	--	--	<0.0053	<0.0059	<0.0054	--	--	--	--	--	--	--	--	<0.0027	<3.4	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	13	190			
Toluene	0.0452	--	--	<0.0053	0.0085	<0.0054	--	--	--	--	--	--	--	--	<0.0027	<3.4	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	190	10,000			
Trichloroethene	<0.0434	--	--	0.026	0.084	--	--	--	--	--	--	--	--	--	<0.0027	<3.4	--	--	--	--	--	<0.0056	--	--	--	--	--	--	--	--	13	520			
Xylene O	1.34	--	--	--	--	<0.0054	--	--	--	--	--	--	--	--	<0.0027	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	10,000			
Xylene P,M	2.11	--	--	--	--	<0.0054	--	--	--	--	--	--	--	--	<0.0053	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	10,000			
Xylenes (Total)	3.45	--	--	<0.011	0.0082	<0.0054	--	--	--	--	--	--	--	--	<0.008	52	--	--	--	--	--	<0.011	--	--	--	--	--	--	--	--	110	10,000			
All other VOCs	ND	--	--	ND	ND	ND	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS			
TOTAL METALS (mg/kg)																																			
Arsenic	--	20	0.6	0.76	0.84	2.4	1.6	4.5	1.6	14	4.5	7.2	3.5	1.8	<1.24	--	2	1	1.4	0.5	3.1	0.98	1.1	1	1.3	0.9	1.5	0.96	1.3	0.9	0.96	1.1	5.4	7	7
Barium	--	360	6.6	4.4	4.9	37	8.4	37	9.5	7.5	10	8.6	16	5.9	5.8	--	22	5.2	2.8	5.2	14	6.6	7.1	7.0	11	6.3	7.4	7.2	6.0	6.3	8.0	4.3	21.3	5,500	10,000
Cadmium	--	1.1	0.051	0.049	0.05	0.40	0.035	0.043	0.14	0.058	0.032	0.075	0.05	<0.19	<0.5	--	<0.18	<0.21	<0.22	<0.20	<0.19	<0.20	<0.19	0.04	<0.20	<0.19	0.039	0.036	0.03	<0.21	<0.20	<0.57	39	1,000	
Chromium (Total)	--	21	26	16	7	32	2.9	6.1	2.4	3	1.3	2.2	7.8	3.4	2.1	--	1.9	0.53	0.31	<0.49	1.3	1.9	1.3	1.4	2.1	1.4	2.1	1.7	1.3	1.4	1.3	7.7	1,400	10,000	
Lead	--	350	1.6	1.2	0.99	480	15	8.7	1.8	2.3	0.77	1.5	14	1.8	<5	--	130	5.5	3.0	12	83	1.3	1.2	1.1	1.5	0.8	1.3	0.98	1.2	0.72	1.2	0.88	31.0	150	500
Mercury	--	0.2	0.097	0.02	<0.020	0.076	0.014	<0.020	<0.021	<0.020	<0.018	0.011	19	0.071	0.052	--	0.16	0.0099	0.20	<0.020	0.0081	<0.020	<0.018	<0.020	<0.020	<0.019	<0.021	<0.020	<0.020	<0.020	<0.020	<0.020	0.067	23	610
Selenium	--	1.5	<4.1	<3.8	<3.7	<4.0	<3.7	<3.6	<4.4	<4.3	<3.7	<4.1	<4.2	<3.8	<5	--	<3.7	<4.2	0.45	<3.9	0.49	<4.0	<3.9	0.4	0.48	<3.9	<4.0	<3.8	<4.3	<4.0	<4.0	<5.7	390	10,000	
Silver	--	<0.62	<0.62	0.44	<0.55	<0.60	<3.6	<0.54	<0.66	0.83	2	0.62	<0.63	<0.57	<0.5	--	<0.55	<0.62	0.22	<0.59	<0.58	<0.60	<0.58	<0.61	<0.60	<0.58	<0.60	<0.60	<0.57	<0.56	<0.64	<0.61	<0.57	200	10,000
TOTAL PETROLEUM HYDROCARBON																																			
C10-C28 Aliphatics																																			
2-Methylnaphthalene	--	--	--	--	--	38	--	--	--	--	--	--	--	--	<0.019	<0.020	--	3,100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS	
POLYNUCLEAR AROMATIC HYDROCARBON																																			
2-Methylnaphthalene	--	--	--	<0.2	<1.1	0.0021	--	<0.18	<0.17	<0.17	<0.18	<0.18	--	--	<0.36	--	--	<0.19	<4.1	<0.18	<0.19	--	0.0058	<0.17	<0.17	<0.2	<0.18	<0.2	<0.18	<0.21	<0.17	<0.2	<0.399	123	10,000
Acenaphthene	--	520	0.21	<0.2	0.045	0.051	--	<0.18	<0.17	<0.17	<0.18	<0.18	0.014	0.0043	<0.36	--	--	<0.19	<4.1	<0.18	<0.19	--	0.0042	<0.17	<0.17	<0.2	<0.18	<0.2	<0.18	<0.21	<0.17	<0.2	<0.399	43	10,000
Acenaphthylene	--	<1,100	<0.22	<0.2	<1.1	0.049	--	<0.18	<0.17	<0.17	<0.18	<0.18	<0.19	<0.21	<0.36	--	--	<0.19	<4.1	<0.18	<0.19	--	<0.2	<0.17	<0.17	<0.2	<0.18	<0.2	<0.18	<0.21	<0.17	<0.2	<0.399	23	10,000
Anthracene	--	1,100	0.25	<0.2	0.13	0.16	--	<0.18	<0.17	<0.17	<0.18	<0.18	0.022	<0.21	<0.36	--	--	<0.19	<4.1	<0.18	<0.19	--	<0.2	<0.17	<0.17	<0.2	<0.18	<0.2	<0.18	<0.21	<0.17	<0.2	<0.399	35	10,000
Benzo(a)anthracene	--	2,300	0.53	<0.2	<1.1	0.73	--	<0.18	<0.17	<0.17	<0.18	<0.18	0.11	0.0071	<0.36	--	--	<0.19	<4.1	<0.18	<0.19	--	<0.2	<0.17	<0.17	<0.2	<0.18	0.012	<0.18	<0.21	<0.17	<0.2	<0.399	0.9	7.8
Benzo(a)pyrene	--	1,900	0.44	<0.2	0.2	0.67	--	0.03	<0.17	<0.17	<0.18	<0.18	0.11	<0.21	<0.181	--	--	<0.19	<4.1	<0.18	<0.19	--	<0.2	<0.17	<0.17	<0.2	<0.18	<0.2	<0.18	<0.21	<0.17	<0.2	<0.2	0.4	0.8

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

BAY SPRING REALTY CO.
90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND

Sample Identification Date Sampled	AOC-1: UST Area				AOC-4: Waste Disposal Area No. 1		AOC-5: Cistern Area						AOC-6: Drum Storage Area/Benzol House	AOC-7: Waste Disposal Area No. 2		AOC-8: Acid Storage Tanks				AOC-9: Solvent Storage Tanks		AOC-10: Coating Room		RIDEM Groundwater Objectives			
	MW-4	MW-101	MW-102	MW-106	MW-3		MW-5		RW-1	MW-105		MW-103	MW-104		MW-3		MW-2		MW-1		GA Objectives	GB UCLs					
	11/26/2012	2/13/2013	6/6/2014	10/9/2014	6/6/2014	10/9/2014	11/26/2012	2/13/2013	6/6/2014	10/9/2014	11/26/2012	6/6/2014	10/9/2014	5/30/2014	6/6/2014	10/9/2014	11/26/2012	2/13/2013	6/6/2014	10/9/2014	11/26/2012	6/6/2014	11/26/2012	6/6/2014			
VOLATILE ORGANIC COMPOUNDS (ug/L)																											
1,1,1,2-Tetrachloroethane	<1	--	--	--	<1	--	<1	--	<1	<1	<0.010	--	<1	<0.010	--	<1	<0.010	<1	<1	<1	<1	<1	<1	<1	NS	NS	
1,1,1-Trichloroethane	<1	--	--	--	<1	--	1.2	--	<1	<1	<0.010	43,000	2.9	0.0333	--	2.7	--	1.2	--	<1	0.0021	<1	<1	<1	200	68,000	
1,1,2,2-Tetrachloroethane	<0.5	--	--	--	<0.5	--	<0.5	--	<0.5	<0.5	<0.005	<1.0	<0.5	<0.005	--	<0.5	--	<0.5	--	<0.5	<0.005	<0.5	<0.5	<0.5	NS	NS	
1,1,2-Trichloroethane	<1	--	--	--	<1	--	<1	--	<1	<1	<0.010	<1	<1	<0.010	--	<1	--	<1	--	<1	<0.010	<1	<1	<1	5	NS	
1,1,2-Trichloro-1,2,2-trifluoroethane	<1	--	--	--	<1	--	--	--	--	--	--	7.9	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS	
1,1-Dichloroethane	<1	--	--	--	<1	--	3	--	<1	<1	<0.010	25,000	14.3	0.0261	--	1.2	--	3	--	<1	0.0018	<1	<1	<1	NS	NS	
1,1-Dichloroethene	<1	--	--	--	<1	--	<1	--	<1	<1	<0.010	2,900	<1	<0.010	--	<1	--	<1	--	<1	<0.010	<1	<1	<1	7	23,000	
1,1,2-Dichloropropane	<2	--	--	--	<2	--	<2	--	<2	<2	<0.020	<2	<2	<0.020	--	<2	--	<2	--	<2	<0.020	<2	<2	<2	NS	NS	
1,2,3-Trichlorobenzene	<1	--	--	--	<1	--	<1	--	<1	<1	<0.010	<1	<1	<0.010	--	<1	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
1,2,3-Trichloropropane	<1	--	--	--	<1	--	<1	--	<1	<1	<0.010	<1	<1	<0.010	--	<1	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
1,2,4-Trichlorobenzene	<1	--	--	--	<1	--	<1	--	<1	<1	<0.010	<1.0	<1	<0.010	--	<1	--	<1	--	<1	<0.010	<1	<1	<1	70	NS	
1,2,4-Trimethylbenzene	<1	--	--	--	<1	--	1	--	4.1	<0.010	4.5	3.2	0.011	--	<1	<0.010	--	62.7	--	1	--	4.1	<0.010	<1	<1	NS	NS
1,2-Dibromo-3-Chloropropane	<5	--	--	--	<5	--	<5	--	<5	<0.050	<5	<5	<0.050	1.1	<5	<0.050	--	<5	--	<5	<0.050	<5	<5	<5	0.2	NS	
1,2-Dibromoethane	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	<1.0	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	0.05	NS	
1,2-Dichlorobenzene	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	<1.0	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	600	NS	
1,2-Dichloroethane	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	110	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	5	670,000	
1,2-Dichloropropane	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	<1.0	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	5	140,000	
1,3,5-Trimethylbenzene	<1	--	--	--	<1	--	<1	--	<1	<0.010	139	79.5	0.0084	--	3.1	<0.010	--	285	--	<1	<0.010	<1	<1	<1	NS	NS	
1,3-Dichlorobenzene	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	<1.0	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	600	NS	
1,3-Dichloropropane	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	--	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
1,4-Dichlorobenzene	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	<1.0	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	75	NS	
1,4-Dioxane - Screen	<500	--	--	--	<500	--	<500	--	<500	<500	<500	<500	<500	--	<500	<500	--	<500	--	<500	<500	<500	<500	<500	NS	NS	
1-Chlorohexane	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	<1	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
2,2-Dichloropropane	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	--	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
2-Butanone	<10	--	--	--	<10	--	<10	--	<10	<0.100	<10	<10	<0.100	820	<10	<0.100	--	<10	--	<10	<0.100	<1	<10	<10	NS	NS	
2-Chlorotoluene	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	--	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
2-Hexanone	<10	--	--	--	<10	--	<10	--	<10	<0.100	<10	<10	<0.100	29	<10	<0.100	--	<10	--	<10	<0.100	<1	<10	<10	NS	NS	
4-Chlorotoluene	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	--	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
4-Isopropyltoluene	<1	--	--	--	<1	--	<1	--	<1	<0.010	9.4	8.9	0.0058	--	<1	<0.010	--	8	--	<1	<0.010	<1	<1	<1	NS	NS	
4-Methyl-2-Pentanone	<25	--	--	--	<25	--	<25	--	<25	<0.250	<25	<25	<0.250	130	<25	<0.250	--	<25	--	<25	<0.250	<25	<25	<25	NS	NS	
Acetone	<10	--	--	--	<10	--	102	--	<10	<0.100	<10	<10	<0.100	290	<10	<0.100	--	<10	--	102	<10	<10	<10	<10	NS	NS	
Benzene	<1	--	--	--	<1	--	1.1	--	3.4	<0.010	<1	<1	<0.010	120	<1	<0.010	--	<1	--	1.1	<0.010	<1	<1	<1	5	18,000	
Bromobenzene	<2	--	--	--	<2	--	<2	--	<2	<0.020	<2	<2	<0.020	--	<2	<0.020	--	<2	--	<2	<0.020	<2	<2	<2	NS	NS	
Bromochloromethane	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	--	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
Bromodichloromethane	<0.6	--	--	--	<0.6	--	<0.6	--	<0.6	<0.006	<0.6	<0.6	<0.006	<1.0	<0.6	<0.006	--	<0.6	--	<0.6	<0.006	<0.6	<0.6	<0.6	NS	NS	
Bromoform	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	<1.0	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
Bromomethane	<2	--	--	--	<2	--	<2	--	<2	<0.020	<2	<2	<0.020	<1.0	<2	<0.020	--	<2	--	<2	<0.020	<2	<2	<2	NS	NS	
Carbon Disulfide	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	1.6	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
Carbon Tetrachloride	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	1,400	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	5	NS	
Chlorobenzene	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	<1.0	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	100	56,000	
Chloroethane	<2	--	--	--	<2	--	<2	--	<2	<0.020	<2	<2	<0.020	170	<2	<0.020	--	<2	--	<2	<0.020	<2	<2	<2	NS	NS	
Chloroform	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	16	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	NS	NS	
Chloromethane	<2	--	--	--	<2	--	<2	--	<2	<0.020	<2	<2	<0.020	<1.0	<2	<0.020	--	<2	--	<2	<0.020	<2	<2	<2	NS	NS	
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0	--	--	--	--	--	--	--	--	--	--	NS	NS	
cis-1,2-Dichloroethane	<1	--	--	--	<1	--	<1	--	<1	<0.010	<1	<1	<0.010	830	<1	<0.010	--	<1	--	<1	<0.010	<1	<1	<1	70	69,000	
cis-1,3-Dichloropropane	<0.4	--	--	--	<0.4	--	<0.4	--	<0.4	<0.004	<0.4	<0.4	<0.004	<1.0	<0.4	<0.004	--	<0.4	--	<0.4	<0.00						

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

BAY SPRING REALTY CO.
90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND

Sample Identification Date Sampled	AOC-1: UST Area			AOC-4: Waste Disposal Area No. 1		AOC-5: Cistern Area						AOC-6: Drum Storage Area/Benzol House	AOC-7: Waste Disposal Area No. 2		AOC-8: Acid Storage Tanks			AOC-9: Solvent Storage Tanks		AOC-10: Coating Room		RIDEM Groundwater Objectives									
	MW-4	MW-101	MW-102	MW-106		MW-3				MW-5		RW-1	MW-105		MW-103	MW-104		MW-3			MW-2		MW-1		GA Objectives	GB UCLs					
	11/26/2012 2/13/2013	6/6/2014 10/9/2014	6/6/2014	6/6/2014	10/9/2014	11/26/2012 2/13/2013	6/6/2014 10/9/2014	11/26/2012 6/6/2014	10/9/2014	11/26/2012 6/6/2014	10/9/2014	5/30/2014	6/6/2014 10/9/2014	6/6/2014	6/6/2014 10/9/2014	11/26/2012 2/13/2013	6/6/2014 10/9/2014	11/26/2012 6/6/2014	10/9/2014	11/26/2012 6/6/2014	11/26/2012 6/6/2014	11/26/2012 6/6/2014	11/26/2012 6/6/2014								
SEMI-VOLATILE ORGANIC COMPOUNDS (ug/L)																															
2,4-Dimethylphenol	<59	--	--	--	--	<51	--	--	--	<51	--	61	--	--	--	--	<51	--	--	--	--	--	--	--	--	NS	NS				
2-Methylphenol	<12	--	--	--	--	<10	--	--	--	<10	--	37	--	--	--	--	<10	--	--	--	--	--	--	--	--	NS	NS				
Acetophenone	<12	--	--	--	--	<10	--	--	--	<10	--	85	--	--	--	--	<10	--	--	--	--	--	--	--	--	NS	NS				
Benzaldehyde	--	--	--	--	--	--	--	--	--	--	--	21	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS				
Di-n-butylphthalate	<12	--	--	--	--	<10	--	--	--	<10	--	9.8	--	--	--	--	<10	--	--	--	--	--	--	--	--	NS	NS				
Isophorone	<12	--	--	--	--	<10	--	--	--	<10	--	20	--	--	--	--	<10	--	--	--	--	--	--	--	--	NS	NS				
Nitrobenzene	<12	--	--	--	--	<10	--	--	--	<10	--	110	--	--	--	--	<10	--	--	--	--	--	--	--	--	NS	NS				
Phenol	<12	--	--	--	--	<10	--	--	--	<10	--	65	--	--	--	--	<10	--	--	--	--	--	--	--	--	NS	NS				
2-Methylnaphthalene	<0.21	--	--	--	--	<0.2	--	--	--	2.63	--	<100	--	--	--	--	<0.2	--	--	--	--	--	--	--	--	NS	NS				
Acenaphthene	<0.21	--	--	--	--	<0.2	--	--	--	0.29	--	<100	--	--	--	--	<0.2	--	--	--	--	--	--	--	--	NS	NS				
Acenaphthylene	<0.21	--	--	--	--	0.3	--	--	--	<0.2	--	<100	--	--	--	--	0.3	--	--	--	--	--	--	--	--	NS	NS				
Benzo(a)anthracene	0.08	--	--	--	--	<0.05	--	--	--	<0.05	--	<100	--	--	--	--	<0.05	--	--	--	--	--	--	--	--	NS	NS				
Benzo(a)pyrene	<0.05	--	--	--	--	0.08	--	--	--	<0.05	--	<100	--	--	--	--	0.08	--	--	--	--	--	--	--	--	0.2	NS				
Benzo(b)fluoranthene	0.1	--	--	--	--	0.15	--	--	--	<0.05	--	<100	--	--	--	--	0.15	--	--	--	--	--	--	--	--	NS	NS				
Benzo(k)fluoranthene	<0.05	--	--	--	--	0.05	--	--	--	<0.05	--	<100	--	--	--	--	0.05	--	--	--	--	--	--	--	--	NS	NS				
Chrysene	0.1	--	--	--	--	0.09	--	--	--	<0.05	--	<100	--	--	--	--	0.09	--	--	--	--	--	--	--	--	NS	NS				
Fluoranthene	<0.21	--	--	--	--	<0.2	--	--	--	<0.2	--	15	--	--	--	--	<0.2	--	--	--	--	--	--	--	--	NS	NS				
Hexachlorobenzene	<0.21	--	--	--	--	<0.2	--	--	--	<0.2	--	<100	--	--	--	--	<0.2	--	--	--	--	--	--	--	--	1	NS				
Indeno(1,2,3-cd)Pyrene	<0.05	--	--	--	--	0.07	--	--	--	<0.05	--	<100	--	--	--	--	0.07	--	--	--	--	--	--	--	--	NS	NS				
Naphthalene	<0.21	--	--	--	--	0.62	--	--	--	1.27	--	<100	--	--	--	--	0.62	--	--	--	--	--	--	--	--	100	NS				
Pentachlorophenol	<1.05	--	--	--	--	<1.01	--	--	--	<1	--	<200	--	--	--	--	<1.01	--	--	--	--	--	--	--	--	1	NS				
Phenanthrene	<0.21	--	--	--	--	<0.2	--	--	--	<0.2	--	20	--	--	--	--	<0.2	--	--	--	--	--	--	--	--	NS	NS				
Pyrene	<0.21	--	--	--	--	<0.2	--	--	--	<0.2	--	9.6	--	--	--	--	<0.2	--	--	--	--	--	--	--	--	NS	NS				
All other SVOCs	ND	--	--	--	--	ND	--	--	--	ND	--	ND	--	--	--	--	ND	--	--	--	--	--	--	--	--	NS	NS				
TOTAL PETROLEUM HYDROCARBONS (mg/L)																															
Diesel Range Organics [C10-C28]	--	--	--	--	--	--	--	--	--	--	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS				
TOTAL METALS (mg/L)																															
Arsenic	0.0146	0.0206	0.0807	--	0.0029	<0.001	--	0.0065	0.0027	0.0042	--	<0.0025	<0.001	--	0.018	<0.001	--	<0.001	<0.001	--	0.0065	0.0027	0.0042	--	--	<0.001	--	<0.001	0.01	NS	
Barium	0.096	0.09	0.039	--	0.025	<0.025	--	0.096	0.121	0.061	--	0.035	<0.025	--	0.72	<0.025	--	0.034	<0.025	--	0.096	0.121	0.061	0.034	--	--	0.035	--	<0.025	2	NS
Cadmium	<0.0025	<0.0025	<0.0025	--	<0.0025	<0.0025	--	<0.0025	<0.0025	<0.0025	--	<0.0025	<0.0025	--	0.0076	<0.0025	--	<0.0025	<0.0025	--	<0.0025	<0.0025	<0.0025	--	--	<0.0025	--	<0.0025	0.005	NS	
Chromium	0.01	0.021	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	0.16	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	<0.01	--	<0.01	0.1	NS	
Lead	0.012	0.03	0.0222	--	<0.01	<0.01	--	0.053	0.03	0.0198	--	<0.01	<0.01	--	1.7	<0.01	--	<0.01	<0.01	--	0.053	0.03	0.0198	--	--	<0.01	--	<0.01	0.015	NS	
Mercury	<0.0005	0.00074	<0.0002	--	<0.0002	<0.0002	--	<0.0005	0.00055	<0.0002	--	<0.0005	<0.0002	--	0.0047	<0.0002	--	<0.0002	<0.0002	--	<0.0005	0.00055	<0.0002	--	--	<0.0002	--	<0.0002	0.002	NS	
Selenium	<0.025	<0.025	<0.025	--	<0.025	<0.025	--	<0.025	<0.025	<0.025	--	<0.025	<0.025	--	<0.025	<0.025	--	<0.025	<0.025	--	<0.025	<0.025	<0.025	--	--	<0.025	--	<0.025	0.05	NS	
Silver	<0.005	<0.005	<0.005	--	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	0.0035	<0.005	--	0.0035	<0.005	--	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	--	<0.005	--	<0.005	NS	NS	
DISSOLVED METALS (mg/L)																															
Arsenic	--	0.0123	0.0402	0.0342	0.0018	<0.001	<0.0025	--	<0.0025	0.0036	0.0052	--	<0.001	--	--	<0.001	--	<0.001	<0.001	<0.0025	--	<0.0025	0.0036	0.0052	--	<0.001	--	<0.001	0.01	NS	
Barium	--	0.046	<0.025	0.026	<0.025	<0.025	0.036	--	0.093	0.052	0.028	--	<0.025	--	--	<0.025	--	0.028	<0.025	<0.025	--	0.093	0.052	0.028	--	0.028	--	<0.025	2	NS	
Cadmium	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	--	<0.0025	<0.0025	<0.0025	--	--	<0.0025	--	--	<0.0025	--	<0.0025	<0.0025	--	<0.0025	<0.0025	<0.0025	--	--	<0.0025	--	<0.0025	0.005	NS	
Chromium	--	<0.01	<0.01	<0.010	<0.01	<0.01	<0.010	--	<0.01	<0.01	<0.010	--	<0.01	<0.010	--	<0.01	<0.010	--	<0.01	<0.010	--	<0.01	<0.01	<0.010	--	--	<0.01	--	<0.01	0.1	NS
Lead	--	<0.01	0.0177	<0.010	<0.01	<0.01	<0.010	--	<0.01	0.0117	<0.010	--	<0.01	--	--	<0.01	<0.010	--	<0.01	<0.010	--	<0.01	0.0117	<0.010	--	--	<0.01	--	<0.01	0.015	NS
Mercury	--	<0.0002	<0.0002	<0.0020	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.00020	--	<0.0002	<0.0002	--	0.0002	<0.0002	--	<0.0002	<0.00020	--	<0.0002	<0.0002	<0.00020	--	--	<0.0002	--	<0.0002	0.002	NS	
Selenium	--	<0.025	<0.025	<0.025	<0.025	<0.025	--	<0.025	<0.025	<0.025	--	<0.025	<0.025	--	<0.025	<0.025	--	<0.025	<0.025	--	<0.025	<0.025	<0.025	--	--	<0.025	--	<0.025	0.05	NS	
Silver	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	--	<0.005	--	--	<0.005	--	<0.005	<0.005	--	<0.005	<0.005	<0.005	--	--	<0.005	--	<0.005	NS	NS	
NOTES:																															
ug/L = micrograms per liter.																															
mg/L = milligrams per liter.																															
NS = No standard promulgated.																															
ND = Not detected above laboratory reporting limit.																															
-- = Not analyzed.																															
Bold concentrations exceed concentrations exceed laboratory reporting limits.																															
Red concentrations exceed the applicable RIDEM GA Groundwater Objectives.																															
Monitoring well destroyed during excavation activities.																															

WELL MONITORING FORM

Project: Bay Spring Realty Co., Barrington
 Project No.: 7131A
 Location: 90 Bay Spring Avenue
 Date: 10/09/14
 Operator: EFG
 Method: Interface Probe

Well ID	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	Depth to Bottom (feet)	LNAPL Thickness (feet)	LNAPL Specific Gravity (unitless)	Water Equivalent (feet)	Corrected	Corrected
								Depth to Water (feet)	Water Table Elevation (feet)
MW-1	101.78	ND	13.16	17.37	ND	NA	NA	NA	88.62
MW-2	101.97	ND	ND	12.59	ND	NA	NA	NA	NA
MW-3	95.66	ND	7.49	13.21	ND	NA	NA	NA	88.17
MW-5	98.61	ND	10.46	14.30	ND	NA	NA	NA	88.15
MW-101	96.29	ND	8.07	12.48	ND	NA	NA	NA	88.22
MW-102	97.05	ND	8.03	14.85	ND	NA	NA	NA	89.02
MW-103	100.98	ND	9.44	12.89	ND	NA	NA	NA	91.54
MW-104	96.20	ND	8.00	13.79	ND	NA	NA	NA	88.20
MW-105	97.18	ND	9.02	12.73	ND	NA	NA	NA	88.16
MW-106	97.50	ND	9.43	14.59	ND	NA	NA	NA	88.07

NM = Not Measured; ND = None Detected at >0.01 feet; NA = Not Applicable; DRY = No Water in Well

NOTES:

WELL MONITORING FORM

Project: Bay Spring Realty Co., Barrington
Project No.: 7131A
Location: 90 Bay Spring Avenue
Date: 06/06/14
Operator: EFG/BCP
Method: Interface Probe

Well ID	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	Depth to Bottom (feet)	LNAPL Thickness (feet)	LNAPL Specific Gravity (unitless)	Water Equivalent (feet)	Corrected	Corrected
								Depth to Water (feet)	Water Table Elevation (feet)
MW-1	101.78	ND	11.96	17.37	ND	NA	NA	NA	89.82
MW-2	101.97	ND	12.22	12.59	ND	NA	NA	NA	89.75
MW-3	95.66	ND	5.96	13.21	ND	NA	NA	NA	89.70
MW-5	98.61	ND	9.03	14.30	ND	NA	NA	NA	89.58
MW-101	96.29	ND	7.22	12.48	ND	NA	NA	NA	89.07
MW-102	97.05	ND	6.63	14.85	ND	NA	NA	NA	90.42
MW-103	100.98	ND	8.24	12.89	ND	NA	NA	NA	92.74
MW-104	96.20	ND	6.48	13.79	ND	NA	NA	NA	89.72
MW-105	97.18	ND	7.54	12.73	ND	NA	NA	NA	89.64
MW-106	97.50	ND	8.20	14.59	ND	NA	NA	NA	89.30

NM = Not Measured; ND = None Detected at >0.01 feet; NA = Not Applicable; DRY = No Water in Well

NOTES:

APPENDIX A

RIDEM SIR Checklist (Completed)

APPENDIX "I"

**Section 7 of the "Remediation Regulations"
Site Investigation Report (SIR) Checklist**

(The following information shall be completed and submitted with the SIR)

Contact Name: [Mr. Jack Cutlip](#)
Contact Address: [909 North Main Street, Providence, Rhode Island](#)
Contact Telephone: [401-265-1835](#)

Site Name: [Bay Spring Realty](#)
Site Address: [90 Bay Spring Avenue, Barrington, Rhode Island](#)

OFFICE USE ONLY

SITE INVESTIGATION REPORT (SIR) SITE:
PROJECT CODE:
SIR SUBMITTAL DATE:
CHECKLIST SUBMITTAL DATE:

DIRECTIONS: *The box to the left of each item listed below is for the administrative review of the SIR submission and is for **RIDEM USE ONLY**. Under each item listed below, cross-reference the specific sections and pages in the SIR that provide detailed information that addresses each stated requirement. Failure to include cross-references shall delay review and approval. If an item is not applicable, simply state that it is not applicable and provide an explanation in the SIR.*

- 7.03.A. List specific objectives of the SIR related to characterization of the Release, impacts of the Release and remedy.
[See Section 1.1](#)
- 7.03.B. Include information reported in the Notification Of Release. A copy of the Release notification form should be included in the SIR. Include information relating to short-term response, if applicable.
[See Section 1.2 & 1.3](#)
- 7.03.C. Include documentation of any past incidents, releases, or investigations.
[See Section 1.4](#)
- 7.03.D. Include list of prior property Owners and Operators including past uses of the property, sequencing of property transfers and time periods of occupancy. Include supporting documentation.
 - Historical Sanborn Maps
 - Historical Aerial Photos [See Section 2.2 and Figure 3 & 4](#)
- 7.03.E. Include previously existing environmental information which characterizes the Contaminated-Site and all information that led to the discovery of the Contaminated-Site.
[See Section 2.2](#)
- 7.03.F. Include current uses and zoning of the Contaminated-Site, including brief statements of operations, processes employed, waste generated, Hazardous Materials handled, and any residential activities on the site, if applicable. (This section should be linked to the specific objectives section demonstrating how the compounds of concern in the investigation are those that are used or may have been used on the site or are those that may have impacted the site from an off-site source.)
[See Sections 2.3](#)

- 7.03.G. Include a locus map showing the location of the site using US Geological Survey 7.5-min quadrangle map or a copy of a section of that USGS map.
[See Section 2.1 and Figure 1](#)
- 7.03.H. Include a site plan, to scale, showing:
[See Section 2.1 and Figure 2](#)
 - Buildings
 - Activities
 - Structures
 - North Arrow
 - Drinking Water Wells
 - Monitoring Wells
 - UIC Systems, septic tanks, USTs (former and current), piping and other underground structures
 - Groundwater Flow Direction
 - Outdoor Hazardous Materials storage and handling areas
 - Extent of paved areas
 - Location of environmental samples taken with analytical results, including soil borings, test pits, and groundwater monitoring wells, highlighting any exceedences with the corresponding sample depth and medium listed
 - Waste management and disposal areas ([Excavation Area](#))
 - Lot Lines
 - Property Lines
- 7.03.I. Include a general characterization of the property surrounding the area including, but not limited to:
[See Section 3.0](#)
 - Location and distance to any surface water bodies within 500 ft of the site
 - Location and distance to any Environmentally Sensitive Areas within 500 ft of the site
 - Actual sources of potable water for all properties immediately abutting the site
 - Location and distance to all public water supplies, which have been active within the previous 2 years and within one mile of the site

- Determination as to whether the Release impacts any off-site area utilized for residential or industrial/commercial property or both
- Determination of the underlying groundwater classification and, if the classification is GB, the distance to the nearest GA area
- 7.03.J. Include classifications of surface and ground water at and surrounding the site that could be impacted by a Release.
[See Section 4.2](#)
- 7.03.K. Include a description of the contamination from the Release, including:
[See Section 4.3](#)
 - Free liquids on the surface
 - LNAPL and DNAPL
 - Concentrations of Hazardous Substances which can be shown to present an actual or potential threat to human health and any concentrations in excess of any of the remedial objectives; (reference Section 12 for requirements related to arsenic in soil).
 - Impact to Environmentally Sensitive Areas
 - Contamination of man-made structures
 - Odors or stained soil
 - Stressed vegetation
 - Presence of excavated or stockpiled material and an estimate of its total volume
 - Environmental sampling locations, procedures and copies of the results of any analytical testing at the site
 - List of Hazardous Substances at the site
 - Indicate if the site has previously been or is currently under the jurisdiction or any program within the Department or Environmental Protection Agency
 - Discuss if the contamination falls outside of the jurisdiction of the Remediation Regulations, including but not limited to USTs, UICs, and wetlands.
- 7.03.L. Include the concentration gradients of Hazardous Substances throughout the site for each medium impacted by the Release.
[See Section 4.4](#)
- 7.03.M. Include the methodology and results of any investigation conducted to determine background concentrations of Hazardous Substances identified at the Contaminated-Site (see Section 12 for Special Requirements for Managing Arsenic in Soil).
[See Section 4.5](#)

- 7.03.N. Include a listing and evaluation of the site specific hydrogeological properties which could influence the migration of Hazardous Substances throughout and away from the site, including but not limited to, where appropriate:
[See Section 4.6](#)
 - Depth to groundwater and elevation of groundwater above mean sea level
 - Presence and effects of both the natural and man-made barriers to and conduits for contaminant migration
 - Characterization of bedrock and depth of bedrock below ground surface, if available
 - Groundwater contours, flow rates and gradients throughout the site, and location of groundwater monitoring wells depicted on a site figure drawn to scale. (a minimum of three (3) groundwater wells is required)
- 7.03.O. Include a characterization of the topography, surface water and run-off flow patterns, including the flooding potential, of the site.
[See Section 4.7](#)
- 7.03.P. Include the potential for Hazardous Substances from the site to volatilize and any and all potential impacts of the volatilization to structures within the site. Indoor air and/or soil gas analysis is required if appropriate.
[See Section 4.8](#)
- 7.03.Q. Include the potential for entrainment of Hazardous Substances from the site by wind or erosion actions.
[See Section 4.8](#)
- 7.03.R. Include detailed protocols for all fate and transport models used in the Site Investigation.
- 7.03.S. Include a complete list of all samples taken, the location of all samples, parameters tested for and analytical methods used during the Site Investigation. **Be sure to include the sample locations and analytical results on a site figure** as required in Rule 7.03.H. Please note that a representative number of soil samples taken should be analyzed for Priority Pollutant Metals, Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Total Petroleum Hydrocarbons (TPH), and Polychlorinated Biphenyls (PCBs). All analytical results shall be summarized in a tabular format. Include justification for all sample locations, depths, and parameters analyzed.
- 7.03.T. Include construction plans and development procedures for all monitoring wells. Well construction shall be consistent with the requirements of Appendix 1 of the Groundwater Quality Rules. Include boring logs for monitoring wells and soil borings in an appendix of the SIR.
- 7.03.U. Include procedures for the handling, storage and disposal of wastes derived from and during the investigation.
[See Section 4.9](#)
- 7.03.V. Include a quality assurance and quality control evaluation summary report for sample handling and analytical procedures, including, but not limited to, chain-of-custody procedures and sample preservation techniques.
[See Section 5.0](#)
- 7.03.W. Include any other site-specific factor, that the Director believes, is necessary to make an accurate

decision as to the appropriate Remedial Action to be taken at the site.

- 7.04 **Include Remedial Alternatives.** The Site Investigation Report **shall** contain a minimum of **2** remedial alternatives other than no action/natural attenuation alternative, unless this requirement is waived by the Department. It should be clear which of these alternatives is most preferable. All alternatives shall be supported by relevant data contained in the Site Investigation Report and consistent with the current and reasonably foreseeable land usage, and documentation of the following: [See Section 7.0](#)
 - Compliance with Section 8 (RISK MANGEMENT);
 - Technical feasibility of the preferred remedial alternative;
 - Compliance with Federal, State and local laws or other public concerns; and
 - The ability of the Performing Party to perform the preferred remedial alternative

- 7.05 **Certification Requirements:** The Site Investigation Report and all associated progress reports shall include the following statements signed by an authorized representative of the party specified:
[See Section 10.0](#)
 - A statement signed by an authorized representative of the Person who prepared the Site Investigation Report certifying the completeness and accuracy of the information contained in that report to the best of their knowledge; and
 - A statement signed by the Performing Party responsible for the submittal of the Site Investigation Report certifying that the report is a complete and accurate representation of the site and the Release and contains all known facts surrounding the Release to the best of their knowledge

- 7.06 **Progress Reports:** If the Site Investigation is not complete, include a schedule for the submission of periodic progress reports on the status of the investigation and interim reports on any milestones achieved in the project

- 7.07 **Public Involvement and Notice:** Be prepared to implement public notice requirements per Section 7.07 and 7.09 of the Remediation Regulations when the Department deems the Site Investigation Report to be complete.
 - Indicate if the site falls within an Environmental Justice (EJ) area and, if applicable, include all EJ public notice documentation issued, and the list of recipients.

APPENDIX B

Copy of Release Notification Form

Appendix C

OFFICE OF WASTE MANAGEMENT – SITE REMEDIATION SECTION HAZARDOUS MATERIAL RELEASE NOTIFICATION FORM

THIS FORM IS NOT TO BE USED TO REPORT AN IMMINENT HAZARD

1. Notifier Information

Name: Bay Spring Realty Company

Address: 909 North Main Street, Providence, RI 02904

Phone: (401) 277-0300

Status: Owner Operator Secured Creditor Voluntary

2. Property Information

Name of Site:

Site Address: 90 Bay Spring Avenue, Barrington, Rhode Island

Plat/Lot Numbers: Map 2 / Lot 154

Approximate Site Acreage: 5.57

Latitude/Longitude: 41° 44' 50.64" / 71° 20' 47.04"

Site Contact Person: Mr. Andrew Schuster

Site Contact Phone: (401) 277-0300

Site Land Usage Type: Residential Industrial/Commercial

Location of Release: See attached Site Plan.

(attach site sketch as necessary)

3. Release Information

Date of Discovery: December 2012

Source : Former use of Site as artificial leather manufacturer

Release Media: Soil and Groundwater

Hazardous Materials and Concentrations: See attached Table.

(attach certificates of analysis as necessary)

Extent of Contamination: See attached Site Plan.

Approximate acreage of Contaminated Site: Unknown (total Site acreage is 5.57)

4. Resource Information

Site Land Usage: Industrial/Commercial Residential

Adjacent Land Usage: Industrial/Commercial Residential

Site Groundwater Class: GA/GAA GB

Adjacent Groundwater Class: GA/GAA GB
(if different than site groundwater classification within 500 feet)

Nearest Surface Water or Wetland:

Less Than 500 Feet Greater Than 500 Feet

Potential for adverse impact Yes/No

5. Potentially Responsible Parties

Name: Mr. Andrew Schuster, Bay Spring Realty Company
Address: 909 North Main Street, Providence, RI 02904

Status: Owner Operator Other:

Name: _____

Address:

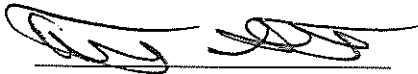
Status: Owner Operator Other:

6. Measures Taken or Proposed to be Taken in Response to Release

7. Other Significant Remarks About Release (Will a background determination be made?)

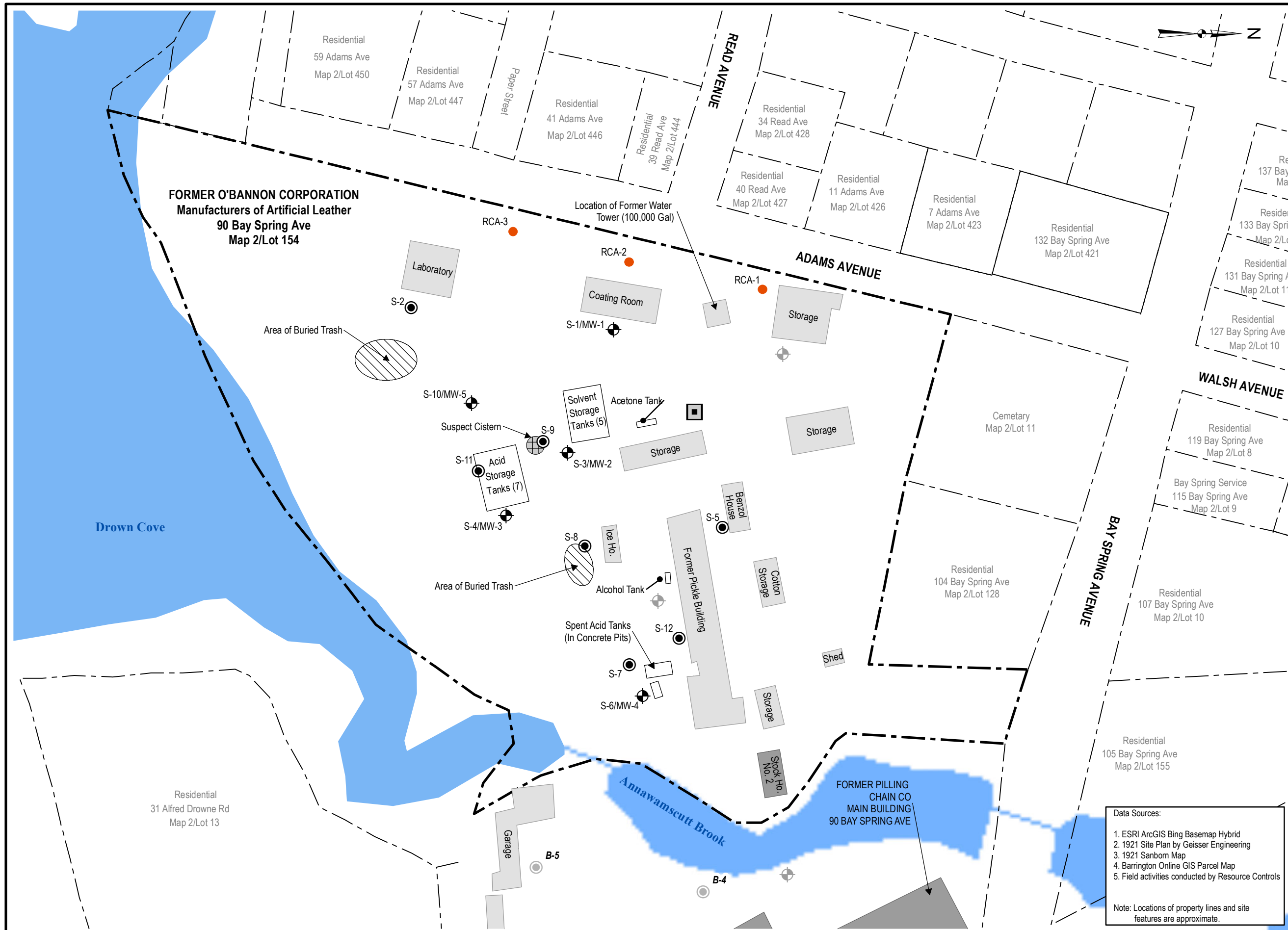
UST and Soil excavation, removal and off-Site disposal

Signature:



Date 5/16/13

Title:



LEGEND

- Property Line
- █ Existing Building
- ▒ Former Building
- Former Tank(s)
- Water Body
- Hydrant
- ⊕ Existing Monitoring Well
- ⊙ Soil Boring
- ⊕ Former Monitoring Well
- ⊙ Previously Installed Soil Boring
- Surficial Soil Sample

0 20 40 80 Feet
Approximate Scale: 1 inch = 80 feet

PREPARED BY:
Resource Controls
Proven Environmental & Engineering Solutions

DRAWING DESCRIPTION:
SITE PLAN

CLIENT:
Donegan & Associates, Ltd.

LOCATION:
**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**

DESIGNED BY: DSB	CHECKED BY: JVF	APPROVED BY: MJH
---------------------	--------------------	---------------------

DRAWING DATE: 2/14/2013	SHEET NUMBER: 1 of 1
----------------------------	-------------------------

PROJECT NUMBER: 7131	DRAWING NAME: SITE PLAN
-------------------------	----------------------------

Data Sources:

- ESRI ArcGIS Bing Basemap Hybrid
- 1921 Site Plan by Geisser Engineering
- 1921 Sanborn Map
- Barrington Online GIS Parcel Map
- Field activities conducted by Resource Controls

Note: Locations of property lines and site features are approximate.

FIGURE 1

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

DONEGAN & ASSOCIATES
90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND

Sample Identification Depth Sampled (feet) Date Sampled	S-2	MW-2/S-3	MW-4/S-6	S-8	RCA-1	RCA-2	RCA-3	RIDEM Soil Criteria	
	8.3	5.5	5.0	5.0	0.5-2	0.5-1.5	0.5-2	Direct Exposure Criteria	
	11/21/2012	11/21/2012	11/21/2012	11/21/2012	2/13/2013	2/13/2013	2/13/2013	Residential	I/C
PHOTOIONIZATION DETECTOR HEADSPACE SCREENING RESULTS (ppmv)									
Total Organic Vapors	2.2	57.1	0.4	79.5	--	--	--	NS	NS
VOLATILE ORGANIC COMPOUNDS (mg/kg)									
1,2,4-Trimethylbenzene	0.0080	0.0321	<0.0057	<0.0027	--	--	--	NS	NS
1,3,5-Trimethylbenzene	0.0107	0.0165	<0.0057	<0.0027	--	--	--	NS	NS
Acetone	0.0968	9.93	<0.0568	<0.0266	--	--	--	7,800	10,000
Chloroform	<0.0041	0.0174	<0.0057	<0.0027	--	--	--	1.2	940
Ethylbenzene	<0.0041	0.325	<0.0057	<0.0027	--	--	--	71	10,000
Isopropylbenzene	<0.0041	0.0426	<0.0057	<0.0027	--	--	--	27	10,000
Naphthalene	0.0079	0.11	<0.0057	<0.0027	--	--	--	54	10,000
Styrene	<0.0041	0.127	<0.0057	<0.0027	--	--	--	13	190
Toluene	<0.0041	0.0452	<0.0057	<0.0027	--	--	--	190	10,000
Xylene O	<0.0041	1.34	<0.0057	<0.0027	--	--	--	110	10,000
Xylene P,M	<0.0081	2.11	<0.0114	<0.0053	--	--	--	110	10,000
Xylenes (Total)	<0.0122	3.45	<0.017	<0.008	--	--	--	110	10,000
All other VOCs	ND	ND	ND	ND	--	--	--	NS	NS
TOTAL METALS (mg/kg)									
Arsenic	--	--	18.9	<1.24	25.7	5.4	6.0	7	7
Barium	--	--	65.6	5.8	43.6	21.3	13.5	5,500	10,000
Cadmium	--	--	<0.57	<0.5	<0.5	<0.57	<0.56	39	1,000
Chromium (Total)	--	--	12.9	2.1	6.4	7.7	20.5	1,400	10,000
Lead	--	--	79.9	<5	38.3	31.0	31.3	150	500
Mercury	--	--	1.96	0.052	0.164	0.067	0.394	23	610
Selenium	--	--	<5.6	<5	<14.9	<5.7	<5.6	390	10,000
Silver	--	--	<0.57	<0.5	<0.5	<0.57	<0.56	200	10,000
POLYNUCLEAR AROMATIC HYDROCARBONS / SEMI-VOLATILE ORGANIC COMPOUNDS (mg/kg)									
2-Methylnaphthalene	--	--	<0.424	<0.36	<0.417	<0.399	<0.392	123	10,000
Acenaphthene	--	--	<0.424	<0.36	<0.417	<0.399	0.862	43	10,000
Acenaphthylene	--	--	<0.424	<0.36	<0.417	<0.399	<0.392	23	10,000
Anthracene	--	--	1.11	<0.36	<0.417	<0.399	1.21	35	10,000
Benzo(a)anthracene	--	--	3.34	<0.36	0.47	<0.399	4.09	0.9	7.8
Benzo(a)pyrene	--	--	2.27	<0.181	0.391	<0.2	3.14	0.4	0.8
Benzo(b)fluoranthene	--	--	3.83	<0.36	0.545	<0.399	4.14	0.9	7.8
Benzo(g,h,i)perylene	--	--	2.05	<0.36	<0.417	<0.399	1.25	0.8	10,000
Benzo(k)fluoranthene	--	--	1.17	<0.36	<0.417	<0.399	1.15	0.9	78
Chrysene	--	--	4.09	<0.181	0.499	<0.2	4.29	0.4	780
Dibenzo(a,h)Anthracene	--	--	0.910	<0.181	<0.209	<0.2	0.300	0.4	0.8
Fluoranthene	--	--	7.25	<0.36	1.16	<0.399	9.00	20	10,000
Fluorene	--	--	<0.424	<0.36	<0.417	<0.399	0.535	28	10,000
Indeno(1,2,3-cd)Pyrene	--	--	1.81	<0.36	<0.417	<0.399	1.22	0.9	7.8
Naphthalene	--	--	0.639	<0.36	<0.417	<0.399	<0.392	54	10,000
Phenanthrene	--	--	5.81	<0.36	0.733	<0.399	7.92	40	10,000
Pyrene	--	--	5.41	<0.36	0.932	<0.399	9.66	13	10,000
NOTES:									
ppmv = parts per million by volume.									
mg/kg = milligrams per kilogram.									
-- = Not analyzed.									
I/C = Industrial/Commercial									
NS = No standard promulgated.									
ND = Not detected above laboratory reporting limit.									
Bold concentrations exceed laboratory reporting limits.									
Red concentrations exceed the applicable RIDEM Residential Direct Exposure Criteria.									
Red underlined concentrations exceed the applicable RIDEM I/C Direct Exposure Criteria.									

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

DONEGAN & ASSOCIATES
90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND

Sample Identification Date Sampled	MW-1	MW-2	MW-3		MW-4		MW-5	RIDEM Groundwater Objectives	
	11/26/2012	11/26/2012	11/26/2012	2/13/2013	11/26/2012	2/13/2013	11/26/2012	GA Objectives	GB UCLs
VOLATILE ORGANIC COMPOUNDS (ug/L)									
1,1,1-Trichloroethane	<1	<0.1	1.2	--	<1	--	<1	200	68,000
1,1-Dichloroethane	<1	<0.1	3	--	<1	--	<1	NS	NS
1,2,4-Trimethylbenzene	<1	<0.1	1	--	<1	--	4.5	NS	NS
1,3,5-Trimethylbenzene	<1	<0.1	<1	--	<1	--	139	NS	NS
4-Isopropyltoluene	<1	<0.1	<1	--	<1	--	9.4	NS	NS
Acetone	<10	10.4	102	--	<10	--	<10	NS	NS
Benzene	<1	<0.1	1.1	--	<1	--	<1	5	18,000
n-Propylbenzene	<1	<0.1	<1	--	<1	--	1.3	NS	NS
sec-Butylbenzene	<1	<0.1	<1	--	<1	--	1.3	NS	NS
Toluene	<1	<0.1	1.1	--	<1	--	<1	1,000	21,000
Xylene O	<1	1	2.2	--	<1	--	<1	10,000	NS
Xylene P,M	<2	<0.2	3.6	--	<2	--	<2	10,000	NS
Xylenes (Total)	<3	<0.3	5.8	--	<3	--	<3	NS	NS
All other VOCs	ND	ND	ND	--	ND	--	ND	NS	NS
SEMI-VOLATILE ORGANIC COMPOUNDS (ug/L)									
2-Methylnaphthalene	--	--	<0.2	--	< 0.21	--	2.63	NS	NS
Acenaphthene	--	--	<0.2	--	< 0.21	--	0.29	NS	NS
Acenaphthylene	--	--	0.3	--	< 0.21	--	<0.2	NS	NS
Benzo(a)anthracene	--	--	<0.05	--	0.08	--	<0.05	NS	NS
Benzo(a)pyrene	--	--	0.08	--	< 0.05	--	<0.05	0.2	NS
Benzo(b)fluoranthene	--	--	0.15	--	0.1	--	<0.05	NS	NS
Benzo(k)fluoranthene	--	--	0.05	--	<0.05	--	<0.05	NS	NS
Chrysene	--	--	0.09	--	0.1	--	<0.05	NS	NS
Indeno(1,2,3-cd)Pyrene	--	--	0.07	--	<0.05	--	<0.05	NS	NS
Naphthalene	--	--	0.62	--	<0.21	--	1.27	100	NS
All other SVOCs	--	--	ND	--	ND	--	ND	NS	NS
TOTAL RCRA 8 METALS (mg/L)									
Arsenic	--	--	0.0065	0.0027	0.0146	0.0206	<0.0025	0.01	NS
Barium	--	--	0.096	0.121	0.096	0.09	0.035	2	NS
Cadmium	--	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.005	NS
Chromium	--	--	<0.01	<0.01	0.01	0.021	<0.01	0.1	NS
Lead	--	--	0.053	0.03	0.012	0.03	<0.01	0.015	NS
Mercury	--	--	<0.0005	0.00055	<0.0005	0.00074	<0.0005	0.002	NS
Selenium	--	--	<0.025	<0.025	<0.025	<0.025	<0.025	0.05	NS
Silver	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	NS	NS
DISSOLVED RCRA 8 METALS (mg/L)									
Arsenic	--	--	--	<0.0025	--	0.0123	--	0.01	NS
Barium	--	--	--	0.093	--	0.046	--	2	NS
Cadmium	--	--	--	<0.0025	--	<0.0025	--	0.005	NS
Chromium	--	--	--	<0.01	--	<0.01	--	0.1	NS
Lead	--	--	--	<0.01	--	<0.01	--	0.015	NS
Mercury	--	--	--	<0.0002	--	<0.0002	--	0.002	NS
Selenium	--	--	--	<0.025	--	<0.025	--	0.05	NS
Silver	--	--	--	<0.005	--	<0.005	--	NS	NS
NOTES:									
ug/L = micrograms per liter.									
mg/L = milligrams per liter.									
NS = No standard promulgated.									
ND = Not detected above laboratory reporting limit.									
-- = Not analyzed.									
Bold concentrations exceed concentrations exceed laboratory reporting limits.									
Red concentrations exceed the applicable RIDEM GA Groundwater Objectives.									

APPENDIX C

Supporting Documentation



Your Trusted Advisors

*Environmental Consulting
Engineering
Construction Management*

**ASTM PHASE I & II ENVIRONMENTAL
SITE ASSESSMENT REPORT**

90 Bay Spring Avenue
Barrington, Rhode Island

Prepared for:

Donegan & Associates, Ltd.
125 Juniper Drive
East Greenwich, Rhode Island 02818

Prepared by:

Resource Control Associates, Inc.
474 Broadway
Pawtucket, Rhode Island 02860

December 14, 2012

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	SUMMARY OF PREVIOUS ENVIRONMENTAL SITE ASSESSMENTS	1
3.0	SITE DESCRIPTION	4
3.1	Location, Legal Description and Ownership	4
3.2	Site and Vicinity General Characteristics	4
3.3	Current Use of the Property	4
3.4	Description of Structures, Roads, Other improvements on the Site.....	5
3.5	Current Uses of Adjoining Properties	5
4.0	USER PROVIDED INFORMATION	6
4.1	Title Records.....	6
4.2	Environmental Liens or Activity and Use Limitations	6
4.3	Specialized Knowledge	6
4.4	Commonly Known or Reasonably Ascertainable Information	6
4.5	Valuation Reduction for Environmental Issues	6
4.6	Owner, Property Manager and Occupant Information	6
4.7	Reason for Performing Phase I.....	6
4.8	Other.....	7
5.0	RECORDS REVIEW	7
5.1	Standard Environmental Record Sources	7
5.2	Additional Environmental Records Sources	9
5.3	Physical Setting Source(s).....	9
5.4	Historical use Information on the Property and Adjoining Properties	10
6.0	SITE RECONNAISSANCE	12
6.1	Methodology and Limiting Conditions	13
6.2	General Site Setting.....	13
6.3	Exterior and Interior Observations.....	14
7.0	INTERVIEWS	15
7.1	Interview with Owner/Site Manager/Occupant.....	15
7.2	Interview with Past owner and Occupant	15
8.0	SUBSURFACE INVESTIGATION	15
8.1	Rationale for Work Scope	15
8.2	Pre-Drilling Activities	16
8.3	Drilling and Monitoring Well Installation.....	17
8.4	Soil Sampling and Analysis.....	17
8.5	Groundwater Sampling and Analysis	18
8.6	Site Hydrogeology.....	18
9.0	DATA GAPS	18
10.0	FINDINGS	19

11.0 CONCLUSIONS AND RECOMMENDATIONS	20
12.0 DEVIATIONS	21
13.0 REFERENCES.....	22
13.1 Interviews Conducted	22
13.2 Resources Reviewed	22
14.0 ENVIRONMENTAL PROFESSIONAL STATEMENT AND SIGNATURE	22
15.0 LIMITATIONS	23

FIGURES:

Figure 1	Locus Map
Figure 2	Site Plan
Figure 3	Historical Aerial Photographs
Figure 4	Historical Sanborn Maps
Figure 5	Historic USGS Topographic Maps
Figure 6	Water Table Elevation Contour Plan

TABLES:

Table 1	Summary of Soil Analytical Results
Table 2	Summary of Groundwater Analytical Results

APPENDICES:

Appendix A	Site Photographs
Appendix B	EDR Radius Map Report
Appendix C	Supporting Documentation
Appendix D	Drill Logs
Appendix E	Well Monitoring Form
Appendix F	Laboratory Reports
Appendix G	Qualifications
Appendix H	Additional Limitations

1.0 INTRODUCTION

On October 22, 2012, Donegan & Associates, Ltd. engaged Resource Control Associates, Inc. (Resource Controls) to conduct a Phase I Environmental Site Assessment (ESA) of 90 Bay Spring Avenue, located in the Town of Barrington, Rhode Island (the Subject Property). The purpose of this assessment was to inspect and evaluate the Subject Property and surrounding properties for “Recognized Environmental Conditions.”

“Recognized Environmental Conditions” shall be defined as the presence or likely presence of any hazardous substances or petroleum products on the property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of a notification and/or enforcement action if brought to the attention of appropriate governmental agencies.

On November 19, 2012, Resource Controls was contracted to complete an ASTM Phase II Environmental Site Assessment for the Subject Property. The purpose of this assessment was to determine whether potential environmental conditions of concern associated with the current or historic use of the Subject Property or surrounding area, which were identified during Phase I ESA activities, had impacted the subsurface environment.

This report was generated based upon a reasonable and knowledgeable review of evidence found in accordance with normally accepted industry standards, state and federal protocols, and within the scope and budget established by the client. Assessment activities were conducted in accordance with the American Society for Testing & Materials (ASTM) Practice E-1527-05, “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process,” published July November, 2005; the ASTM Practice E 1903-97, “Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process,” published February 1998 (re-approved 2002); and our contracts dated October 11, 2012 and November 19, 2012.

Julie V. Freshman, Senior Environmental Scientist for Resource Controls, and Daniel S. Boynes, Environmental Scientist for Resource Controls, completed a Phase I ESA site inspection on October 26, 2012. The following Resource Controls employees authored this report: Daniel S. Boynes, Julie V Freshman and Mark J. House, Vice President and Principal Scientist.

2.0 SUMMARY OF PREVIOUS ENVIRONMENTAL SITE ASSESSMENTS

A *Phase II Oil and Hazardous Waste Assessment* for the Subject Property located at 90 Bay Spring Avenue, was completed by Geisser Engineering Corporation (Geisser Engineering) in February 1992. The property investigated during the February 1992 assessment, was comprised of both an eastern and western section, which are currently designated on the Town of Barrington Tax Assessor’s Tax Map No. 2 as Lot 12 (the property adjoining the Subject Property to the east across the Annawamscutt Brook), and Lot 154 (the Subject Property), respectively. The following is a summary of information obtained from the 1992 Phase II report:

- The property has been utilized for manufacturing since its establishment in 1912 and consists of one lot, approximately 7.8 acres in size.

- Lot 12 contains a three-story brick building with a living area of 35,000 square feet and land area of 2.710 acres.
- The property was historically owned by the O'Bannon Corporation and produced textile and narrow fabrics in conjunction with another mill located at 85 Bay Spring Avenue.
- A bicycle pathway is located to the east of the property and was historically used as a railroad track bed for the Hartford Railroad Company.
- The following provides a summary of details pertaining to Lot 12:
 - The following materials were observed throughout the interior of the main building, which is located on the eastern portion of Lot 12 and owned by Pilling Manufacturing: approximately twenty (20) 55-gallon barrels of cutting oil and hydraulic fluid; several barrels of zinc die cast pieces and slag; metal-cutting and operating machines; rolls of wire and raw stock, and; some tanks containing plating liquids.
 - Two (2) floor drain trough systems were observed in the main building on Lot 12, which appeared to be part of both the degreasing and barrel plating operations formerly conducted by Pilling Manufacturing. The trough systems were part of a pre-treatment system by which rinse water from the plating operations were neutralized prior to discharge into the Barrington Public Sewer System. No non-compliance issues were noted.
 - A boiler room which contains an oil-fired-boiler fueled by No. 6 fuel oil that is contained in a 5,000-gallon aboveground storage tank (AST) is present in the main building on Lot 12. The AST is contained within a concrete structure. Several barrels of miscellaneous oils and lubricants were observed in the boiler room.
 - A 2,000-gallon underground storage tank (UST) containing No. 2 fuel oil is located along the western portion of the main building, adjacent to the boiler room.
 - Three (3) functioning outdoor pad-mounted electrical transformers are located on Lot 12 and three (3) non-functioning pad-mounted transformers are located in an enclosure attached to the exterior of the western portion of the main building.
 - Approximately 1,200-gallons of plating solutions, including sodium and zinc cyanide, were observed on the first floor of the Subject Property main building.
- Lot 154 (the Subject Property) was historically developed and contained manufacturing buildings, tank farms, storage buildings and sheds. At the time of the inspection, the following observations were noted: a slab of the former nitrated cotton storage building; concrete cradles which historically supported solvent and acid ASTs; a slab of the alcohol still and No. 12 storage building and an opening which may have been an underground acid storage pit; an empty 265-gallon AST located next to the No. 2 Stock House; three (3) electrical transformers owned by the Narragansett Electric Company, which are not expected to contain PCBs; and a ditch filled with discarded clay pipes and rusted iron debris, which was observed on the southern section of Lot 154.
- In August 1992, two (2) monitoring wells (MW-1 and MW-2) and three (3) soil borings (B-4 to B-6) were drilled to a maximum depth of approximately 20 feet and installed on Lot 12. One (1) monitoring well (MW-3) was installed on Lot 154 (the Subject Property) to a depth of approximately 20 feet and one (1) monitoring well (MW-4) was installed in the location of the former pickle house on Lot 154 (the Subject Property) due to acid storage tanks were historically located there.
- Two (2) subsurface soil samples were submitted for laboratory analysis for the following contaminants: toxic metals (TLCP); total petroleum hydrocarbons (TPH); polychlorinated biphenyls (PCBs), and; volatile organic compounds (VOCs). Soil sample No. 1 was a composite of soil collected from MW-1 through MW-3 and soil borings B-4 through B-6. Soil sample No. 2 was a composite of soil collected from MW-4 and soil from the two (2) former locations of the solvent and acid tanks. Laboratory analytical results did not indicate any exceedances of applicable RIDEM soil criteria.
- A composite groundwater sample was submitted for laboratory analysis for VOCs, TPH and PCBs. Laboratory analytical results reported a benzene concentration of 6 micrograms per liter (ug/L),

which exceeds the applicable RIDEM GA groundwater objective for benzene (5 ug/L). The benzene concentration was not considered an imminent health threat as the property is connected to the municipal water.

An Update - Environmental Report for the property located at 90 Bay Spring Avenue was completed by Geisser Engineering in January 1995. The following is a summary of information obtained from the 1995 Update - Environmental Report:

- In January 1995, Geisser Engineering conducted a site investigation of the property to address any significant changes or site conditions which may have occurred since the completion of the 1992 Phase II report.
- The first floor of the main building located on Lot 12 was occupied by Hills Auto, an auto repair business. No fuel storage tanks were associated with the business.
- An AST containing No. 6 fuel oil was in good condition with no leaks or staining observed.
- A 1,000-gallon UST containing No. 2 fuel oil, which was historically used to supply fuel to Pilling Chain was still present although Pilling Chain was no longer in business at the facility.
- Based on the inspections of the property and abutting properties, an interview with a representative of the owners of the property, and a review of environmental records at the RIDEM, Geisser Engineering concluded that the property had not been downgraded or changed for the worst since the completion of the 1992 Phase II site assessment.

A letter regarding "Test pits on Bay Spring Street Property" and dated June 30, 2003 was submitted from Geisser Engineering to Mr. David Malkin with Real Estate Investment, The following is a summary of information obtained from 2003 letter report:

- In May 2003, four (4) test pits (TP-1 through TP-4) ranging in depth from 3-feet to 8-feet were excavated on Lot 154 (the Subject Property).
- A slurry and watery liquid was observed in TP-4, located to the south of the former acid pit area. The slurry appeared to originate from surrounding clay piping. No sample was collected from this location and the nature of the slurry was undetermined.
- Soil samples were collected from test pits as well as shovel-dug hand excavations and submitted for laboratory analysis for RCRA 8 metals and TPH.
- Laboratory analytical results reported arsenic concentrations that exceeded applicable RIDEM Residential Direct Exposure Criteria at all of the sample locations; one (1) exceedance of iron was reported in a sample collected adjacent to the former Pickle Building on the Subject Property.
- Geisser Engineering concluded the following:
 - The Subject Property can be developed with the understanding that underlying debris throughout portions of the property would either have to be removed, or that any proposed structures would have to be supported on pilings.
 - Due to the presence of arsenic detected in soil at or above 24 feet below the surface, certain developed areas will need to be overlain with asphalt or rendered inaccessible.
 - In addition, during the course of construction activities, laboratory analysis of additional soil samples would be needed to characterize any suspicious material.

Copies of the above-noted 1992, 1995 and 2003 ESA reports have been included within Appendix C (Supporting Documentation). No other previous environmental site assessments were provided to or discovered by Resource Controls during Phase I environmental site assessment activities.

3.0 SITE DESCRIPTION

Please refer to the maps located in the Figures section of this report. Subject Property photographs are included in Appendix A.

3.1 Location, Legal Description and Ownership

3.1.1 Site Location

The Subject Property, located at 90 Bay Spring Avenue in the Town of Barrington, Rhode Island, is depicted on the Assessor's Tax Map No. 2 as Lot 154. The Subject Property consists of a total land area of approximately 242,800 square feet (5.57 acres).

A Locus Map showing the location of the Subject Property is included as Figure 1, and a Site Plan showing the existing Subject Property and lot designation is included as Figure 2.

3.1.2 Legal Description

A copy of the legal property description for the Subject Property (Book 222 / Page 1152) is included within Appendix B (Supporting Documentation).

3.1.3 Current Site Owner(s)

According to chain of title information provided by the Town of Barrington Tax Assessor's Office, the current owner of the Subject Property is Bay Spring Realty Co.; Bay Spring Realty Co. acquired the Subject Property in February 1997.

3.2 Site and Vicinity General Characteristics

3.2.1 Zoning

According to a Zoning Map of the Town of Barrington dated 2011, the eastern portion of the Subject Property is zoned "LM" (limited manufacturing) with a small portion of the western part of the Subject Property zoned "R 10" (Residence 10).

3.2.2 County

The Subject Property is located within Bristol County, Rhode Island.

3.2.3 Latitude and Longitude

The Environmental Data Resources, Inc. (EDR) Report (Appendix C) defines the Subject Property's location as follows:

Latitude (North): 41.7474000 - 41° 44' 50.64" UTM Easting/X 304,898 Meters

Latitude (West): 71.3464000 - 71° 20' 47.04" UTM Northing/Y 4,624,178 Meters

3.3 Current Use of the Property

3.3.1 Site Occupants

The Subject Property is currently vacant land.

3.4 Description of Structures, Roads, Other improvements on the Site

3.4.1 Structures, Roads and Other Improvements

The Subject Property does not contain remnants of selected former buildings. According to information obtained from a 1921 Sanborn map, the Subject Property was historically developed with several buildings and/or structures, including approximately five (5) storage buildings, a Benzol House, coating room, laboratory, five (5) solvent storage tanks, seven (7) acid storage tanks, concrete pits containing several spent acid tanks and a building labeled "Former Pickle Building".

The Subject Property is currently overgrown and vacant with some building foundations, concrete cribs, and pits observed.

3.4.2 Heating/Cooling System

There are no heating and cooling systems on the Subject Property. The heating source(s) for the former buildings located on the Subject Property is unknown.

3.4.3 Sewage Disposal

On November 9, 2012, Resource Controls reviewed records at the Town of Barrington Department of Public Works, regarding the original connection date of the Subject Property to the municipal sewer system. A representative at the Sewer Department provided the following documentation to Resource Controls personnel:

- A plan entitled "Town of Barrington, Rhode Island Wastewater Facilities, Contract No. 3, Bay Spring-Drown Dove Area, Bay Spring Avenue" dated February 1975 indicates that a sewer line runs along Bay Spring Avenue and serves the building formerly occupied by Piling Chain Co (located on Lot 12).
- A plan dated July 15, 1982 depicts the Piling Chain Company sewer complex (located on Lot 12), along the western side of the building and along the eastern side of Annawamscutt Brook.

3.4.4 Source of Potable Water

The Subject Property is not connected to a source of potable water.

3.4.5 Electricity/Telephone Service

The Subject Property is not served by telephone lines. One (1) telephone pole was observed in the eastern portion of the Subject Property. The telephone pole did not appear to be in active use.

3.5 Current Uses of Adjoining Properties

North: Residential properties and Bay Spring Avenue beyond which lies Bay Spring Service, residential properties and a bike path.

South: Vacant land beyond which lies Drown Cove and the Providence River.

East: An apartment complex beyond which lies a bike path, and vacant land and Drown Cove beyond which lies residential properties.

West: Adams Avenue beyond which lies residential properties and vacant land which contains a stream that appears to discharge into Drown Cove.

4.0 USER PROVIDED INFORMATION

The User (Donegan & Associates, Ltd.) was provided with a User Questionnaire. Mr. Michael Donegan a lawyer with Donegan & Associates, Ltd., asked that the User Questionnaire be filled out by Mr. Andrew Shuster, son of the one of the owners of the Subject Property. The following sections summarize the information provided by Mr. Andrew Shuster on October 26, 2012. A copy of the signed and completed User Questionnaire has been included within Appendix C (Supporting Documentation).

4.1 Title Records

Mr. Shuster indicated that land title records have not been reviewed for the Subject Property.

4.2 Environmental Liens or Activity and Use Limitations

Mr. Shuster is not aware of any environmental liens and/or activity and use limitations that have been filed or recorded against the site and/or in a registry.

4.3 Specialized Knowledge

Mr. Shuster does not have specialized knowledge or experience related to the property or nearby properties.

4.4 Commonly Known or Reasonably Ascertainable Information

Mr. Shuster provided the following information related to commonly known or reasonably ascertainable information about the Subject Property:

- Mr. Shuster is aware of the historical presence of underground or aboveground storage tanks, but does not know whether they have been removed or are currently still located on the Subject Property.
- Mr. Shuster is not aware of specific chemicals that are present or once were present at the Subject Property.
- Mr. Shuster is not aware of any spills or other chemical releases that have taken place at the Subject Property.
- Mr. Shuster is not aware of any environmental cleanups that have taken place at the Subject Property.

4.5 Valuation Reduction for Environmental Issues

Mr. Shuster believes that the purchase price of the Subject Property is lower than fair market value, due to potential “problems”.

4.6 Owner, Property Manager and Occupant Information

Refer to Sections 3.0 and 7.0 for information regarding the owner and occupant of the Subject Property.

4.7 Reason for Performing Phase I

Mr. Shuster indicated that a third party is conducting the Phase I, but did not provide a reason.

4.8 Other

No other information was provided to Resource Controls by Mr. Shuster.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

Resource Controls reviewed a Radius Map Report from Environmental Data Resources, Inc. (EDR) and dated October 24, 2012. The information from the Radius Map Report is summarized below:

Federal Database Lists	Radius (Miles)	Sites Within Search Radius
National Priority List (NPL) Sites	1.00	0
Delisted NPL Sites	0.50	0
Comprehensive Environmental Response Compensation Liability Information System (CERCLIS) Sites	0.50	0
CERCLIS No Further Remedial Action Planned (NFRAP) Sites	0.50	0
Resource Conservation and Recovery Act (RCRA) CORRATS Facilities	1.00	0
Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal (TSD) Facilities	0.50	0
RCRA Small and Large Quantity Hazardous Waste Generators (GEN)	Property and Adjoining Properties	0
Institutional Control/Engineering Control Registries	Property Only	0
ERNS	Property Only	0

There are no sites listed on the above-noted federal database lists within the specified search radii.

The property identified in the Radius Map Report as “90 Bay Spring Avenue” is listed in the Facility Index System (FINDS) under the following listings: Viking Industries Inc., Rainbow Spring and Hills Tire & Auto. Hills Tire & Auto is also listed as a RCRA Non-Generator for the previous disposal of ignitable hazardous waste and waste oil; RCRA Non-Generators do not presently handle hazardous waste. There are no sites listed on the above-noted federal database lists within the specified search radii.

The property identified in the Radius Map Report as “Ban Realty Pilling Chain Company” located at 90 Bay Spring Avenue is listed as a RCRA Non-Generator (RCRA Non-Generators do not presently handle hazardous waste). No information was provided in the Radius Map Report regarding type of hazardous waste handled by “Ban Realty Pilling Chain Company.”

The property listed as “Pilling Chain Company” in the Radius Map Report and located at 90 Bay Spring Avenue, is listed on the Manifest database list. According to the Radius Map Report, approximately 100 pounds of waste coded F008 (PLAT SLDG FM BTM PLAT BATH OPER CYANIDE) was transported off-site on February 8, 1995.

State and/or Tribal Database Lists	Radius (Miles)	Sites Within Search Radius
Hazardous Waste Sites	1.0	2
Spills	0.50	7
Releases	0.50	0
Landfill and/or Solid Waste Disposal Sites	0.50	0
Leaking Underground Storage Tank (LUST) Sites	0.50	1
Registered Storage Tank Sites	Property and Adjoining Properties	1
Institutional Control/Engineering Control Registries	Property Only	0
Voluntary Cleanup Sites	0.50	0
Brownfield Sites	0.50	0

The property listed as “Pilling Mfg., Inc.” in the Radius Map Report and located at 90 Bay Spring Avenue, is listed as a registered UST site (Facility ID No. UST-98). Resource Controls reviewed RIDEM documentation pertaining to the UST site on November 7, 2012. A RIDEM Certificate of Closure dated April 14, 1997 indicates that one (1) 1,000-gallon No. 2 fuel oil UST (Tank 001) was removed from the property. According to further documentation, the UST was removed on January 8, 1997. After the removal of the UST, an oil residue was noted at the bottom of the tank after it was removed from the bottom of the excavation. MDR Engineering collected a soil sample from a depth of 1 to 2 feet below the UST and submitted the sample for laboratory analysis of TPH. Laboratory analytical results reported a TPH concentration of 670 mg/kg, which is above the RIDEM Residential Direct Exposure Criteria, but below the Industrial/Commercial Direct Exposure Criteria. The area of the former tank was backfilled and then overlain with asphalt.

The property listed as “90 Bay Spring Road” in the Radius Map Report, is identified on the Spills database list. According to information obtained from the EDR database report, 75 gallons of No. 6 oil were spilled at the property on December 19, 1988. No further information regarding this spill was reported in the Radius Map Report. The 1992 Phase II ESA conducted by Geisser Engineering reports that the spill was cleaned-up by the MacDonald and Watson Corporation with no apparent damage to human health or the environment.

A property, adjoining the Subject Property to the west across Adams Avenue and listed as 41 Adams Ave in the Radius Map Report, is listed on the Spills database list. Information obtained from the Radius Map Report indicates that an unknown quantity of heating oil was spilled on the property in January 1986. No further information regarding this spill was reported in the Radius Map Report.

A property located to the north of the Subject Property across Bay Spring Avenue, identified as “Bay Spring Service Garage Inc.” at 115 Bay Spring Avenue, is included in the database report as a registered UST Site (Facility ID No. 2843). Resource Controls reviewed RIDEM documentation pertaining to the UST site on November 7, 2012. Two (2) 3,000-gallon USTs containing gasoline were installed on the property in 1973 and closed in April of 1989. According to a hand-written note on an Application for

Underground Storage Facilities dated 1988, the USTs have not been in use and have been completely empty since 1975. A handwritten letter dated August 18, 1988 indicates that gas pumps are located at the property, despite gasoline not having been sold at the property in 15 years. The letter indicates that a well is proposed to be installed at the property. A RIDEM Certificate of Closure dated April 4, 1989 indicates that two (2) 3,000-gallon gasoline USTs (Tank 001 and 002) were removed from the property. No information regarding the condition of the tanks at the time of removal and/or the sampling of the soil associated with the two (2) USTs was found in the RIDEM UST file.

Based on a review of the Radius Map Report and area topography, none the other above-noted sites appear to represent recognized environmental conditions to the Subject Property.

5.2 Additional Environmental Records Sources

5.2.1 Department of Health/Environmental Division

The Town of Barrington does not maintain a Health Department. Resource Controls contacted the Rhode Island Department of Health (RIDOH) on November 8, 2012 for information pertaining to the storage and/or use of oil and/or hazardous materials (OHM) on the Subject Property and private wells within the vicinity of the Subject Property. According to a representative at RIDOH, there is no information pertaining to the storage and/or use of OHM on the Subject Property, or private wells within the vicinity of the Subject Property; and the RIDOH does not have a searchable database that contains information on private wells within the State of Rhode Island.

5.2.2 Fire Department

On November 9, 2012, Resource Controls contacted the Town of Barrington Fire Department regarding the additional records relating to the storage and/or use of oil and/or hazardous materials (OHM) on the Subject Property. According to a representative of the Fire Department, the Barrington Fire Department has no records pertaining to the Subject Property.

5.2.3 Planning Department

No records of the storage and/or use of OHM on the Subject Property were available at the Town of Barrington Planning Department.

5.2.4 Building Permit/Inspection Department

No building permits for the Subject Property were available for review. No records of the storage and/or use of OHM on the Subject Property were available at the Building Department.

5.2.5 Local Electric Utility Companies (for records relating to PCBs)

No transformers or other potentially PCB-containing electrical equipment were noted at the Subject Property. As such, no electric utility company was contacted as part of this investigation.

5.3 Physical Setting Source(s)

5.3.1 USGS 7.5-Minute Topographic Map

The Subject Property is represented on the Bristol, Rhode Island United States Geological Survey (USGS) 7.5 x 15 minute topographic map, dated 1975. Information obtained from this map indicates that the Subject Property topography gently slopes to the south/southwest toward Drown Cove.

Groundwater within the vicinity of the Subject Property is inferred to flow to the south/southeast, towards Drown Cove and the Narragansett Bay. A copy of the USGS topographic map has been included as Figure 1 (Locus Map).

5.3.2 Surficial Geology

According to information obtained from the Rhode Island Geographic Information System (RIGIS) Glacial Geology datalayer, the Subject Property area is underlain by glacial fluvial deposits of stratified sand and gravel.

5.3.3 Soil

According to information obtained from the U.S. Department of Agriculture Web Soil Survey, referenced on November 5, 2012, soils beneath the Subject Property consist of the Hinckley gravelly sandy loam, rolling. Based on previous subsurface investigations conducted on the Subject Property by Geisser Engineering, soils beneath the Subject Property consist of medium grained, well sorted sand with some silt and clay present

5.4 **Historical use Information on the Property and Adjoining Properties**

5.4.1 Aerial Photographs

Resource Controls reviewed aerial photographs (dated 1939, 1951-1952, 1962, 1981, 1997, 2003 and 2008) available for download through RIGIS. The following table summarizes the information obtained from the aerial photographs:

Year	Summary of Aerial Photographs
1939	The Subject Property appears to be developed with approximately seven (7) buildings located in the northern portion of the Subject Property and a water tower located on the western portion of the Subject Property.
1951-1962	Several Subject Property buildings appear to have been razed with four (4) building and a water tower still present.
1981	The Subject Property appears to be vacant with the exception of one (1) water tower.
1997-2008	The Subject Property appears vacant and in its current configuration.

Copies of the above-noted aerial photographs have been included as Figure 3.

5.4.2 Fire Insurance Maps

Resource Controls received historic Sanborn fire insurance maps from EDR on October 26, 2012. The following table summarizes the information obtained from the Sanborn maps:

Year	Summary of Sanborn Maps
1921	The Subject Property is labeled as O'Bannon Corporation, manufacturers of artificial leather. The following buildings were identified on the Sanborn fire insurance map: A building, labeled as No. 11, with wash room, dryer house, nitrating department and dehydration department located in the center of the Subject Property; Storage building for nitrated cotton; a 1000-gallon water tower; five (5) solvent storage tanks and one (1) acetone located to the west of the building No. 11; seven (7) acid storage tanks with an adjacent tank scale room located to the southwest of building No. 11; a coating room; laboratory, two (2) spent acid tanks in concrete pad enclosures located immediately south building No. 11; a garage on the southeastern portion of the Subject Property, and; several storage buildings located throughout the Subject Property. The main building, located to the east of the Subject Property, appears to be the main building for the O'Bannon Corporation with at least two (2) coating rooms and a boiler room. A garage is located to the northwest of the Subject Property across Bay Spring Avenue with at least one (1) 500-gallon gasoline UST depicted. Residential properties are located to the west of the Subject Property.

1928	The Subject Property appears to be similarly developed, but with a different property occupant and site usage. The Subject Property is labeled as Collins & Aikman Corporation. All of the buildings on the Subject Property are depicted as vacant with the exception of the main building to the east of the Subject Property, which appears to be used for the storage of cotton yarn. The area to the west of the Subject Property appears to be improved by more residential properties. The garage listed in the 1921 Sanborn appears to be unchanged.
1950	The Subject Property appears changed from with the 1928 Sanborn with several buildings having been razed. Building No. 11, the garage, solvent storage tanks, acetone tanks, spent acid tanks, laboratory and some storage houses appear to have been razed. The main building to the east of the Subject Property is now labeled as "Building". The area to the west of the Subject Property appears to be further developed by residential housing. The garage located to the northwest of the Subject Property appears to be an auto repair facility, with no UST depicted.
1961	The Subject Property appears similar to the 1950 Sanborn with more storage buildings having been razed. The main building to the east of the Subject Property appears to have been converted into loft apartments.

Copies of the above-noted Sanborn Maps have been included as Figure 4.

5.4.3 Property Tax Files

Resource Controls researched chain of title information provided by the Town of Barrington Tax Assessor's Office. The following table summarizes the former owners of the Subject Property:

Owner	Date	Book/Page
Group IV	1986	164/957
Group IV	1986	164/959
Shuster, Ralph (Trust)	1986	164/955
Shuster, Ralph (Trust)	1986	164/956
Bay Spring Realty Company	1992	222/1151
Bay Spring Realty Company	1994	275/264
GHG Fowler, Inc.	1996	319/203
Barrington Cove Limited Partnership	1997	339/114

5.4.4 USGS Topographic Maps

Resource Controls reviewed historical USGS topographic maps dated 1892 and 1939 of the Subject Property and vicinity. No recognized environmental conditions were discovered during the review of this map. The topography of the Subject Property and surrounding area appears to be unchanged from the current topography, which appears to slope gently toward the south/southeast towards Drown Cove.

As previously noted, Resource Controls reviewed a USGS map, photorevised in 1975, of the Subject Property and vicinity. No recognized environmental conditions were discovered during the review of this map. The topography of the Subject appears to be sloping towards the south/southeast into Drown Cove.

Copies of the 1892, 1939, and 1975 USGS topographic maps have been included as Figure 5A, Figure 5B and Figure 1, respectively.

5.4.5 Local Street Directories

Resource Controls received a City Directory Image Report from EDR on October 25, 2012. The following table summarizes the information obtained from the City Directories for 90 Bay Spring Avenue:

Year	90 Bay Spring Avenue
1985	Cast Products Corp., Karew, Pilling Chain Co
1990	Cast Products Corp, Pilling Chain Co
1995	Hills Tire & Auto, Rainbow System
2000	Washington Rd INTs
2008	Washington Rd INTs

The EDR City Directory Image Report is included for reference in Appendix C (Supporting Documentation).

5.4.6 Building Department Records

Building Department records pertaining to the Subject Property were discussed in Section 5.2.4.

5.4.7 Historic Use of Oil and/or Hazardous Materials (OHMs) on the Property

Site assessment activities revealed that the following OHMs were historically utilized on the Subject Property:

- Solvents
- Acid
- Acetone

Information obtained from the Geisser 1992 Phase II report, indicates that the following OHMs were historically utilized on Lot 12 (the property adjoining the Subject Property to the east across the Annawamscutt Brook):

- Cutting oil
- Hydraulic fluid
- Plating solutions & lubricants
- Fuel oil
- Sodium & Zinc cyanides

5.4.8 Historical Water Supply Wells or Septic Systems on the Property

No evidence of historic water supply wells was discovered during the investigation of the Subject Property. A water tower was historically located on the Subject Property. The method of sewage disposal during the 1920s when the Subject Property was occupied by O'Bannon Corporation and Collins & Aikman Corporation is unknown.

5.4.9 Area History

The subject area has historically been utilized for industrial, commercial and residential development.

6.0 **SITE RECONNAISSANCE**

Julie V. Freshman, Senior Environmental Scientist for Resource Controls, and Daniel S. Boynes, Environmental Scientist for Resource Controls completed a Phase I ESA site reconnaissance of the Subject Property on October 26, 2012. Mr. Andrew Shuster, son of one of the Subject Property owners, was present during the site reconnaissance.

6.1 Methodology and Limiting Conditions

The periphery of the Subject Property was visually and/or physically observed, as well as the periphery of the Subject Property building. The Subject Property was viewed from all adjacent public thoroughfares. Accessible common areas, maintenance and repair areas, and a representative sample of occupant spaces were visually and/or physically observed within the interior of the Subject Property building. Due to heavy overgrown vegetation, Resource Controls was unable to inspect the entire Subject Property.

6.2 General Site Setting

6.2.1 Surface Water Characteristics

- Site Topography: Based on the site reconnaissance conducted by Resource Controls on October 26, 2012, the Subject Property exhibits relatively flat topography, sloping gently downward to the south and east.
- Surface Water Bodies: The Annawomscutt Brook runs along the eastern edge of the Subject Property and drains into Drown Cove, which is immediately south of the Subject Property.
- Runoff, Stormwater Drainages/Discharges: The entire Subject Property is unpaved. As such, stormwater is expected to infiltrate into the subsurface.

6.2.2 Groundwater Characteristics

- Groundwater Classification: RIDEM categorizes groundwater at the Subject Property as GA. GA areas are defined as “those groundwater areas which are known or presumed to be of drinking water quality but are not assigned GAA, which is presumed to be suitable for drinking without treatment.”
- Wells, Spring or Seeps: Two (2) groundwater monitoring wells were installed on the Subject Property by Geisser Engineering during 1992 Phase II activities. Resource Controls was unable to locate the wells during the site reconnaissance; however, as previously noted, Resource Controls was unable to inspect the entire Subject Property due to heavy overgrown vegetation.

No springs or seeps were discovered by Resource Controls during the site reconnaissance or are known to exist at the Subject Property.

- Approximate/Estimated Depth to Groundwater: Based on gauging activities conducted by Geisser Engineering during 1992 Phase II activities, the depth to groundwater beneath the Subject Property ranges between 5.0 and 12.0 feet below grade.
- General Utilization of Groundwater Within 0.5 Miles of the Site: According to the EDR Radius Map Report and the RIGIS data distribution system’s 2010 Community and Non-Community Well Head Protection Areas datalayers, there are no public water supply wells located within a half-mile radius of the Subject Property. As previously noted, a representative at the RIDOH indicated there is no searchable database that contains information on private wells within the State of Rhode Island. As previously noted, documentation with the RIDEM UST file for the property located at 115 Bay Spring Avenue indicated that a well was proposed to be installed at the 115 Bay Spring Avenue property. The purpose of the well was not disclosed.

- Inferred Groundwater Flow Direction: Based on site topography and site inspection activities, groundwater beneath the Subject Property is expected to flow to the south/southeast toward Drown Cove.

6.3 Exterior and Interior Observations

6.3.1 Physical Characteristics and Exterior Observations

As previously mentioned in Section 3.4, the Subject Property is currently overgrown and vacant with several concrete and brick building foundations, one (1) telephone pole and one (1) fire hydrant observed.

6.3.2 Interior Inspection

An interior inspection was not conducted as part of site assessment activities, since there are no buildings located on the Subject Property.

6.3.3 Use of Oil and/or Hazardous Materials

Resource Controls did not observe any evidence of the use of OHMs at the Subject Property during the site reconnaissance.

6.3.4 Underground and Aboveground Storage Tanks (USTs and ASTs)

According to historic Sanborn fire insurance maps from received from EDR, five (5) solvent storage tanks, one (1) acetone storage tank, seven (7) acid storage tanks and several spent acid storage tanks in concrete pits were historically located on the Subject Property.

Resource Controls identified one abandoned AST (approximately 275-gallon capacity), one abandoned UST (approximately 500-gallon capacity), and several concrete tank cribs in the areas of former solvent and acid storage tanks; please refer to Section 8.2 for further details. The former solvent and spent acid storage areas were severely overgrown and covered with natural organic matter, which limited the ability to fully inspect the areas.

6.3.5 Floor Drains/Sumps/Drywells/Lagoons/Pits/Ponds/Etc.

Resource Controls observed several disposal pits, building system structures, and a cistern structure on the Subject Property (please refer to Section 8.2 of this report for further details). No additional floor drains, sumps, drywells, lagoons, pits and/or ponds were observed during the site reconnaissance.

6.3.6 Polychlorinated Biphenyls (PCBs)

Resource Controls did not observe any evidence of PCB containing materials during site reconnaissance.

6.3.7 Dumping of OHMs, Debris or Construction Materials

Dumping of broken glass, empty 55-gallon containers and miscellaneous trash was observed throughout the Subject Property.

6.3.8 Stressed Vegetation or Staining

No areas of stressed vegetation or staining were observed during the site reconnaissance.

7.0 INTERVIEWS

7.1 Interview with Owner/Site Manager/Occupant

On October 26, 2012, Julie V. Freshman and Daniel S. Boynes of Resource Controls interviewed Mr. Andrew Shuster, son of the current owner of the Subject Property. Information provided by Mr. Shuster has been included in numerous sections throughout this report. Mr. Shuster was unaware of potential environmental hazards associated with the Subject Property.

7.2 Interview with Past owner and Occupant

Resource Controls did not interview past owners or occupants of the Subject Property.

8.0 SUBSURFACE INVESTIGATION

8.1 Rationale for Work Scope

The Phase I ESA identified the following recognized environmental conditions at the Subject Property:

- The Subject Property was historically utilized for industrial purposes including artificial leather manufacturing.
- Five (5) solvent storage tanks, seven (7) acid storage tanks, one (1) acetone storage tank and several spent acid storage tanks in concrete pits were historically located on the Subject Property. Documentation pertaining to the proper closure of these storage tanks was not discovered during site assessment activities.
- During test tit sampling on the Subject Property in 2003, a slurry and watery liquid was observed in test pit TP-4, located to the south of the former acid pit area. The slurry appeared to originate from surrounding clay piping. No sample was collected from this location and the nature of the slurry was undetermined.
- Two (2) groundwater monitoring wells were installed on the Subject Property during a subsurface investigation conducted in 1992. The groundwater sample that was submitted for laboratory analysis for VOCs, TPH and PCBs was a composite of samples from four (4) monitoring wells (two (2) on the Subject Property and two (2) on the property to the east of the Subject Property). Laboratory analytical results reported a benzene concentration of 6 ug/L, which exceeds the applicable RIDEM GA groundwater objective of 5 ug/L.
- The observation of several suspect structures and suspect disposal areas on the Subject Property.

To further investigate these concerns, Resource Controls developed a scope of work for subsurface investigation to characterize soil and groundwater conditions at the Subject Property.

8.2 Pre-Drilling Activities

Activities conducted prior to the subsurface investigation included a mark out of the proposed locations of each soil boring, contacting “DigSafe” and the Town of Barrington to mark out underground utilities in the vicinity of the Subject Property, a review of on-site utilities with Mr. Shuster, preparation of a site-specific Health and Safety Plan, and coordination of field activities with the property representative and subcontractors.

On November 20, 2012, Resource Controls utilized a global positioning (GPS) unit to assist in location potential soil boring and monitoring well locations. In addition to use of a GPS unit, McGovern Excavating conducted clearing and grubbing of the Subject Property under the oversight of Resource Controls. The clearing of the Subject Property was used to gain access to proposed sampling locations.

During the clearing and grubbing of the Subject Property, remnants of several former building foundations were located and recorded with the GPS unit. Several areas of concern were noted during the clearing of the vegetation, including the following:

- Several pits on the southern portion of the Subject Property which appeared to be manmade and contained debris, including discarded 55-gallon containers which appeared rusted. The contents of the containers are unknown.
- A partially exposed UST located in the eastern portion of the Subject Property. According to historic Sanborn maps, this UST appears to be in the approximate location of the spent acid tanks. The origin and contents of the UST are unknown.
- A pit constructed out of brick located in the eastern portion of the Subject Property. According to historic Sanborn maps, the pit appears to have been part of the Former Pickle Building (former main building). Two (2) shut-off valves and several inches of water were located at the bottom of the pit.
- An object, which appeared to be a cistern, located in the center of the Subject Property. According to historic Sanborn maps, the cistern appears to be located to the south (downgradient) of the solvent storage tanks. The cistern appeared to be several feet deep and filled with corroded containers of various sizes. Two (2) pipes were observed to be located on opposing ends of the cistern.
- A partially intact building located in the northeastern portion of the Subject Property. According to historic Sanborn maps, the building appears to be the former Stock House No. 2. An abandoned 275-gallon AST was located along the exterior of the building. No staining was present in the vicinity of the AST. A corroded 55-gallon container marked “inhibited trichloroethylene” was observed adjacent to the abandoned 275-gallon AST. Collection of samples from this area was not feasible due to limited access.
- A small pit consisting of concrete construction located in the northeastern portion of the Subject Property, to the south of the partially intact former Stock House No. 2 building. Two (2) pipes were observed to be located on opposing ends of the pit.

Dumping of broken glass, empty containers and miscellaneous trash was observed throughout the Subject Property.

8.3 Drilling and Monitoring Well Installation

On November 21, 2012, Resource Controls conducted a subsurface investigation that included the installation of twelve (12) soil borings, five (5) of which were completed as groundwater monitoring wells, field screening of subsurface soil, and laboratory analysis of selected soil and groundwater samples. Soil boring and monitoring well locations were selected to address recognized environmental conditions identified during Phase I assessment activities and to maximize coverage of the Site. The locations of the soil borings and monitoring wells are depicted on the Site Plan (Figure 2).

New England Geotech of Rhode Island utilized Geoprobe™ “direct-push” methods to install the borings. The soil borings were advanced to depths ranging between 10 and 15 feet below grade. Drilling logs, which include lithologic descriptions, photoionization detector (PID) results and well construction details, are included as Appendix A. Lithologic descriptions were based on soil collected continuously from each boring using dedicated acetate soil sampling liners.

The five (5) monitoring wells were constructed of two-inch diameter, thread-coupled PVC materials. A 15-foot length of machine-cut, 0.01-inch slot well screen was installed at approximately five (5) feet below the observed water table elevation to obtain an adequate and representative water supply for future well sampling activities in monitoring wells MW-1, MW-2 and MW-5. A 12-foot length of machine-cut, 0.01-inch slot well screen was installed at approximately five (5) feet below the observed water table elevation to obtain an adequate and representative water supply for future well sampling activities in monitoring wells MW-3 and MW-4. The monitoring wells were completed with a standpipe to limit disturbance and surface water intrusion. Following installation, the monitoring wells were developed by removing up to five (5) well volumes of water from the well with a peristaltic pump.

8.4 Soil Sampling and Analysis

Each soil sample was observed and described by a Resource Controls scientist in accordance with a modified Burmister classification system and field screened for the presence of volatile organic vapors using a 10.6 eV PID calibrated with an isobutylene standard to read “as benzene”. Soil descriptions and PID readings are documented on the drilling logs, which are included in Appendix A.

Based on field observations and proximity to locations of identified recognized environmental conditions, selected soil samples were submitted for laboratory analysis of volatile organic compounds (VOCs) by EPA Method 8260B, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270 and RCRA 8 metals. The soil samples were collected in clean containers provided by the laboratory. All soil samples were labeled in the field and transported to the laboratory under standard chain-of-custody protocol.

Laboratory analytical results for the soil samples collected from S-6/MW-4 indicated concentrations of arsenic, benzo(a)pyrene and dibenzo(a,h)anthracene above the RIDEM Residential and Industrial/Commercial (I/C) Direct Exposure Criteria (DEC). Laboratory analytical results for the soil samples collected from S-6/MW-4 indicated concentrations of benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene and ideno(1,2,3-cd)pyrene above the RIDEM Residential DEC but below the I/C DEC.

No other contaminants were detected at levels above the RIDEM Residential and/or I/C DEC. The soil analytical results are summarized in Table 1; a copy of the laboratory report is included in Appendix F.

8.5 Groundwater Sampling and Analysis

On November 26, 2012 groundwater samples were collected from monitoring wells MW-1 through MW-5. Resource Controls utilized a peristaltic pump and dedicated polyethylene tubing to collect the groundwater samples from each well. Prior to sampling, a minimum of three well volumes was purged from each of the monitoring wells.

Samples collected from monitoring wells MW-1 through MW-5 were submitted for laboratory analysis of VOCs by EPA Methods 8260B. In addition to VOCs, samples collected from monitoring wells MW-3 through MW-5 were submitted for laboratory analysis of semi-volatile organic compounds (SVOCs) and RCRA-8 metals. Samples were collected in clean containers provided by the laboratory. All groundwater samples were labeled in the field and transported to the laboratory under standard chain-of-custody protocol.

Laboratory analytical results for groundwater samples collected from MW-3 indicated a concentration of lead above the RIDEM GA Groundwater Objective. Laboratory analytical results for groundwater samples collected from MW-4 indicated a concentration of arsenic above the RIDEM GA Groundwater Objectives.

No other contaminants were detected at levels above the RIDEM GA Groundwater Objectives. The groundwater analytical results are summarized in Table 2; a copy of the laboratory report is included in Appendix F.

8.6 Site Hydrogeology

On November 26, 2012, Resource Controls gauged the depth to the water table at the Subject Property and surveyed the top of casing elevation (TOC) of each monitoring well. The monitoring well TOC elevations were surveyed to an arbitrary benchmark elevation of 100.00 feet. Based on well gauging data, depth to groundwater at the Subject Property ranges from approximately 6.30 feet below grade to 12.59 feet below grade, and the inferred groundwater flow direction is to the southeast. A well monitoring form documenting the gauging event is included as Appendix E. A Water Table Elevation Contour Plan is included as Figure 6.

9.0 DATA GAPS

The following is a summary of the data gaps encountered during the completion of this Phase I ESA:

Data Gap	Evaluation of significance to the overall findings of the investigation	Attempts that were made to access the missing information	Listing of any alternative sources that were used to help fill the data gap
Land title records for the Subject Property were not reviewed by the User.	This data gap is not significant to the overall findings of the investigation, as our overall findings, conclusions and recommendations would remain the same regardless of the review of land title records.	A review of land title records was beyond the agreed upon scope of this Phase I ESA, as outline in our contract dated October 11, 2012. Resource Controls ordered an environmental database report from EDR which included a search for environmental land use restrictions (ELURs) on the Subject Property. According to this report, no ELURs have been recorded on the Subject Property.	None

<p>Current conditions of the Subject Property inhibit investigation of the subsurface in areas of interest.</p>	<p>This data gap is significant to the overall findings of the investigation due to the inability to collect samples from areas of interest, particularly the partially intact building and disposal areas located in the south and southeastern portions of the Subject Property.</p>	<p>Resource Controls attempted to access all areas of the Subject Property during the clearing and grubbing of the Subject Property. Due the presence of former building structures and disposal pits, not all areas were able to be accessed.</p>	<p>None</p>
---	--	--	-------------

10.0 FINDINGS

Based on assessment activities conducted at the Subject Property, Resource Controls has identified the following environmentally significant findings:

- The Subject Property is currently vacant wooded land and has been unoccupied since the 1950s/1960s.
- The Subject Property was historically utilized for industrial purposes including artificial leather manufacturing.
- Five (5) solvent storage tanks, seven (7) acid storage tanks, one (1) acetone storage tank and several spent acid storage tanks in concrete pits were historically located on the Subject Property. Documentation pertaining to the proper closure of these storage tanks was not discovered during site assessment activities.
- In 1992, a subsurface investigation was conducted on the Subject Property and the property adjoining the Subject Property to the east. Laboratory analytical results for soil samples collected from the Subject Property did not indicate exceedances of the applicable RIDEM direct exposure criteria. Two (2) groundwater monitoring wells were installed on the Subject Property. The groundwater sample that was submitted for laboratory analysis for VOCs, TPH and PCBs was a composite of samples from four (4) monitoring wells (two (2) on the Subject Property and two (2) on the property to the east of the Subject Property). Laboratory analytical results reported a benzene concentration of 6 ug/L, which exceeds the applicable RIDEM GA groundwater objective of 5 ug/L.
- In 2003, test pit sampling was conducted on the Subject Property. A slurry and watery liquid was observed in test pit TP-4, located to the south of the former acid pit area. The slurry appeared to originate from surrounding clay piping. No sample was collected from this location and the nature of the slurry was undetermined.
- Based on well gauging data collected during the 1992 subsurface investigation, the depth to groundwater beneath the Subject Property is expected to range from five (5) to 12 feet below grade, and the inferred groundwater flow direction is to the southeast.

- On November 20, 2012, during the clearing and grubbing of the Subject Property, several areas of concern were noted during the clearing of the vegetation, including several pits on the southern portion of the Subject Property which appeared to be manmade and contained debris (including discarded 55-gallon containers); a partially exposed UST located in the eastern portion of the Subject Property; a brick constructed pit located in the eastern portion of the Subject Property containing two (2) shut-off valves and several inches of water; an object, which appeared to be a cistern several feet deep and filled with corroded containers of various sizes, located in the center of the Subject Property; an abandoned 275-gallon AST and a corroded 55-gallon container marked “inhibited trichloroethylene” located adjacent to the partially intact building located on the northeastern portion of the Subject Property; a pit of concrete construction located in the northeastern portion of the Subject Property to the south of the partially intact former Stock House No. 2 building, and; dumping of broken glass, empty 55-gallon containers and miscellaneous trash throughout the Subject Property.
- Laboratory analytical results for the soil samples collected from S-6/MW-4 indicated concentrations of arsenic, benzo(a)pyrene and dibenzo(a,h)anthracene above the RIDEM Residential and I/C DEC. Laboratory analytical results for the soil sample collected from S-6/MW-4 indicated concentrations of benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene and ideno(1,2,3-cd)pyrene above the RIDEM Residential DEC but below the I/C DEC.
- Laboratory analytical results for groundwater samples collected from MW-3 indicated a concentration of lead above the RIDEM GA Groundwater Objectives.
- Laboratory analytical results for groundwater samples collected from MW-4 indicated a concentration of arsenic above the RIDEM GA Groundwater Objectives.

11.0 CONCLUSIONS AND RECOMMENDATIONS

Resource Controls has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of 90 Bay Spring Avenue, in the Town of Barrington, Rhode Island (the Subject Property). Any exceptions to, or deletions from, this practice are described in Section 12.0 of this report. This assessment has revealed the following recognized environmental conditions (RECs) in connection with the Subject Property:

- The Subject Property was historically utilized for industrial purposes including artificial leather manufacturing.
- Five (5) solvent storage tanks, seven (7) acid storage tanks, one (1) acetone storage tank and several spent acid storage tanks in concrete pits were historically located on the Subject Property. Documentation pertaining to the proper closure of these storage tanks was not discovered during site assessment activities.
- During test pit sampling on the Subject Property in 2003, a slurry and watery liquid was observed in test pit TP-4, located to the south of the former acid pit area. The slurry appeared to originate from surrounding clay piping. No sample was collected from this location and the nature of the slurry was undetermined.

- Two (2) groundwater monitoring wells were installed on the Subject Property during a subsurface investigation conducted in 21992. The groundwater sample that was submitted for laboratory analysis for VOCs, TPH and PCBs was a composite of samples from four (4) monitoring wells (two (2) on the Subject Property and two (2) on the property to the east of the Subject Property). Laboratory analytical results reported a benzene concentration of 6 ug/L, which exceeds the applicable RIDEM GA groundwater objective of 5 ug/L.
- In November 2012 several areas of concern, including pits, tanks, cisterns and drums, were noted during the clearing of the vegetation on portions of the Subject Property.

To further investigate the above-noted RECs, Resource Controls performed a Phase II ESA in accordance with the American Society for Testing & Materials (ASTM) Practice E 1903-97, "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process," published February 1998 (re-approved 2002); and our contracts dated October 11, 2012 and November 19, 2012. The subject of this investigation is the property located at 90 Bay Spring Avenue in Barrington, Rhode Island. Based on the results of investigations performed, Resource Controls offers the following conclusions:

- Laboratory analytical results for the soil samples collected from S-6/MW-4 indicated concentrations of arsenic, benzo(a)pyrene and dibenzo(a,h)anthracene above the RIDEM Residential and I/C DEC. Laboratory analytical results for the soil samples collected from S-6/MW-4 indicated concentrations of benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene and ideno(1,2,3-cd)pyrene above the RIDEM Residential DEC but below the I/C DEC.
- Laboratory analytical results for groundwater samples collected from MW-3 indicated a concentration of lead above the RIDEM GA Groundwater Objectives.
- Laboratory analytical results for groundwater samples collected from MW-4 indicated a concentration of arsenic above the RIDEM GA Groundwater Objectives.

Based on the preceding, Resource Controls offers the following recommendations:

- In accordance with Section 5.00 of the RIDEM Remediation Regulations, the owner, Bay Spring Reality Co., upon obtaining knowledge of the release(s), should notify the RIDEM of the reportable concentrations in soil using a Hazardous Material Release Notification Form. A copy of this form has been included within Appendix D, Supporting Documentation. In accordance with Section 5.01 of Remediation Regulations, notification to the RIDEM must be made no later than 15 days from the discovery/knowledge of the release. It is anticipated that the RIDEM shall require a Site Investigation to further delineate the identified contamination and propose a remedial action to resolve the concerns identified.

Resource Controls is available to assist with the management of these recommendations.

12.0 DEVIATIONS

The Phase I ESA contains no deletions and/or deviations from or additions to ASTM Practice E 1527-05.

13.0 REFERENCES

13.1 Interviews Conducted

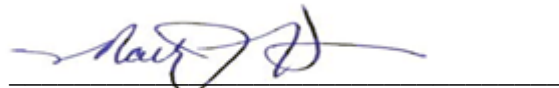
- Mr. Andrew Shuster, son of Subject Property owner (10/26/2012)
- Representative, Town of Barrington Tax Assessor's Office (10/26/2012)
- Representative, Town of Barrington Building Division (10/26/2012)
- Representative, Town of Barrington Planning Department (10/26/2012)
- Representative, Town of Barrington Clerk's Office (10/26/2012)
- Representative, Town of Barrington Fire Department (11/9/2012)
- Representative, Town of Barrington Public Works Dept. (11/9/2012)
- Representative, Rhode Island Department of Health (11/8/2012)

13.2 Resources Reviewed

- EDR Report (10/24/2012)
- EDR City Directory Abstract (10/25/2012)
- EDR Certified Sanborn Map Report (10/24/2012)
- Historical aerial photographs from RIGIS (11/6/2012)
- Rhode Island Department of Environmental Management records (11/7/2012)
- A Phase II Oil and Hazardous Waste Assessment completed by Geisser Engineering Corporation dated February, 1992 for 90 Bay Spring Avenue in Barrington, Rhode Island (11/6/2012)
- An Update - Environmental Report completed by Geisser Engineering Corporation dated January, 1995 for 90 Bay Spring Avenue in Barrington, Rhode Island (11/6/2012)
- A letter regarding "Test pits on Bay Spring Street Property" and dated June 30, 2003 for 90 Bay Spring Avenue in Barrington, Rhode Island (11/6/2012)

14.0 ENVIRONMENTAL PROFESSIONAL STATEMENT AND SIGNATURE

I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Mark J. House
Vice President and Principal Scientist

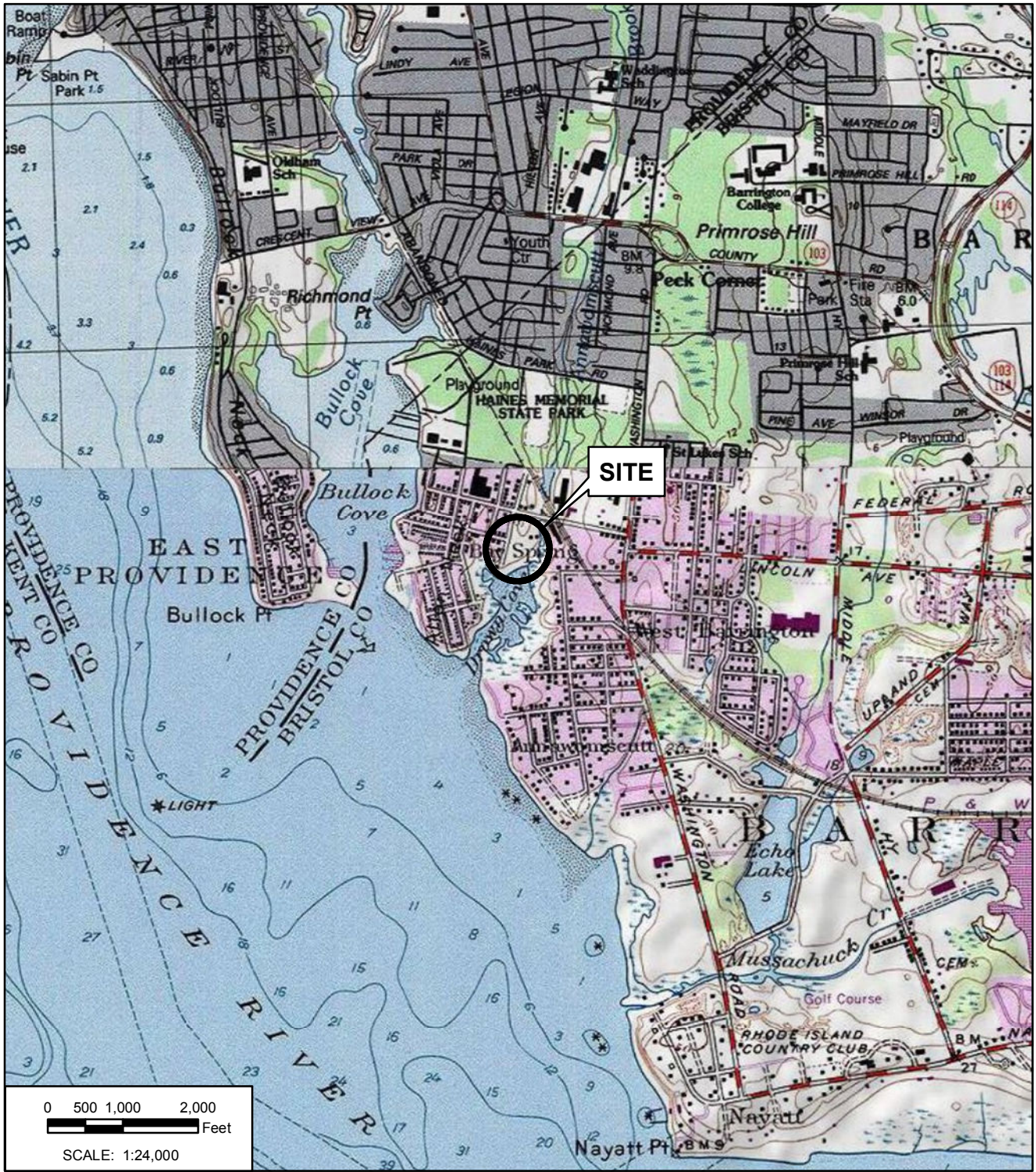
15.0 LIMITATIONS

This report addresses the environmental characteristics of the Subject Property with regard to the release of or possible presence of oil and/or hazardous materials. It is not intended to guarantee that the Subject Property is or is not free from conditions, materials or substances that could adversely impact the environment or pose a threat to public health and safety. Rather, it is intended to be used as a summary of available information on existing conditions, the conclusions of which are based upon a reasonable review of information found in accordance with normally accepted industry standards and protocols, subject to and as limited by the scope and budget established with the client. Should further research on the Subject Property be warranted, Resource Controls must review any additional data obtained and the conclusions presented herein may be modified accordingly.

This report in total has been prepared on behalf of and for the exclusive use of Donegan & Associates, Ltd, solely for use in an environmental evaluation of the Subject Property. This report or any part thereof, may not be used, relied upon or reproduced by any party other than Donegan & Associates, Ltd, without first obtaining written permission from Resource Controls.

Conclusions stated herein are based on the available information summarized herein and refer only to be specific Subject Property investigated. No warranty is implied or given and the report is subject to the agreement for the work, including the Standard Terms and Conditions attached to said agreement, as well as Additional Limitations bound herein.

FIGURES



0 500 1,000 2,000
 Feet
 SCALE: 1:24,000

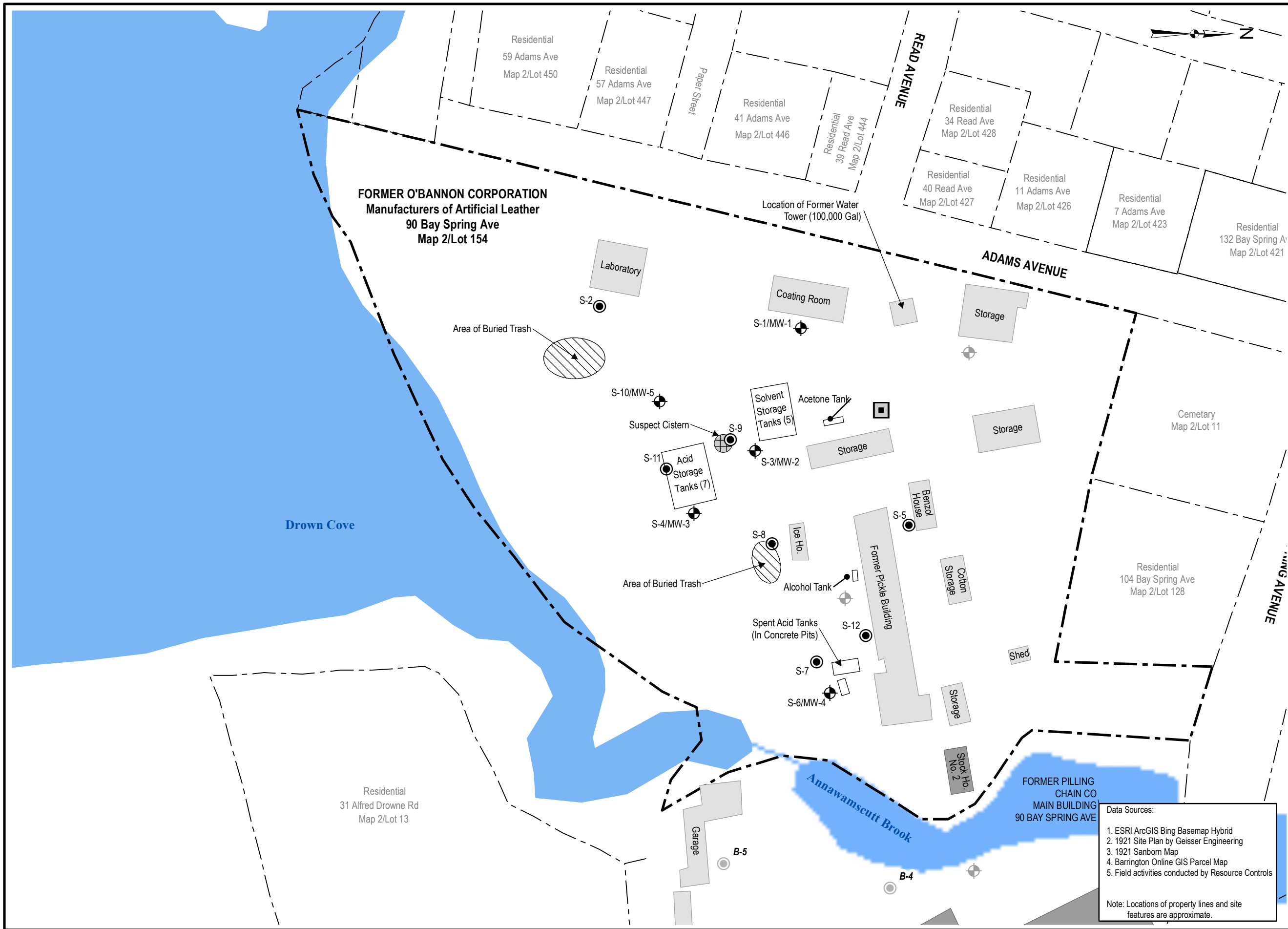
Source: Rhode Island Geographic Information System (RIGIS)
 1955 (Photorevised 1970 and 1975) USGS Topographic Map - Bristol, Rhode Island-Massachusetts Quad

LOCUS MAP

**90 BAY SPRING AVENUE
 BARRINGTON, RHODE ISLAND**



DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/01/2012	1



LEGEND

- Property Line
- █ Existing Building
- ▒ Former Building
- Former Tank(s)
- Water Body
- Hydrant
- ⊕ Existing Monitoring Well
- ⊙ Soil Boring
- ⊕ Former Monitoring Well
- ⊙ Previously Installed Soil Boring

0 20 40 80 Feet
 Approximate Scale: 1 inch = 80 feet

PREPARED BY:
Resource Controls
 Proven Environmental & Engineering Solutions

DRAWING DESCRIPTION:
SITE PLAN

CLIENT:
Donegan & Associates, Ltd.

LOCATION:
**90 BAY SPRING AVENUE
 BARRINGTON, RHODE ISLAND**

DESIGNED BY: DSB	CHECKED BY: JVF	APPROVED BY: MJH
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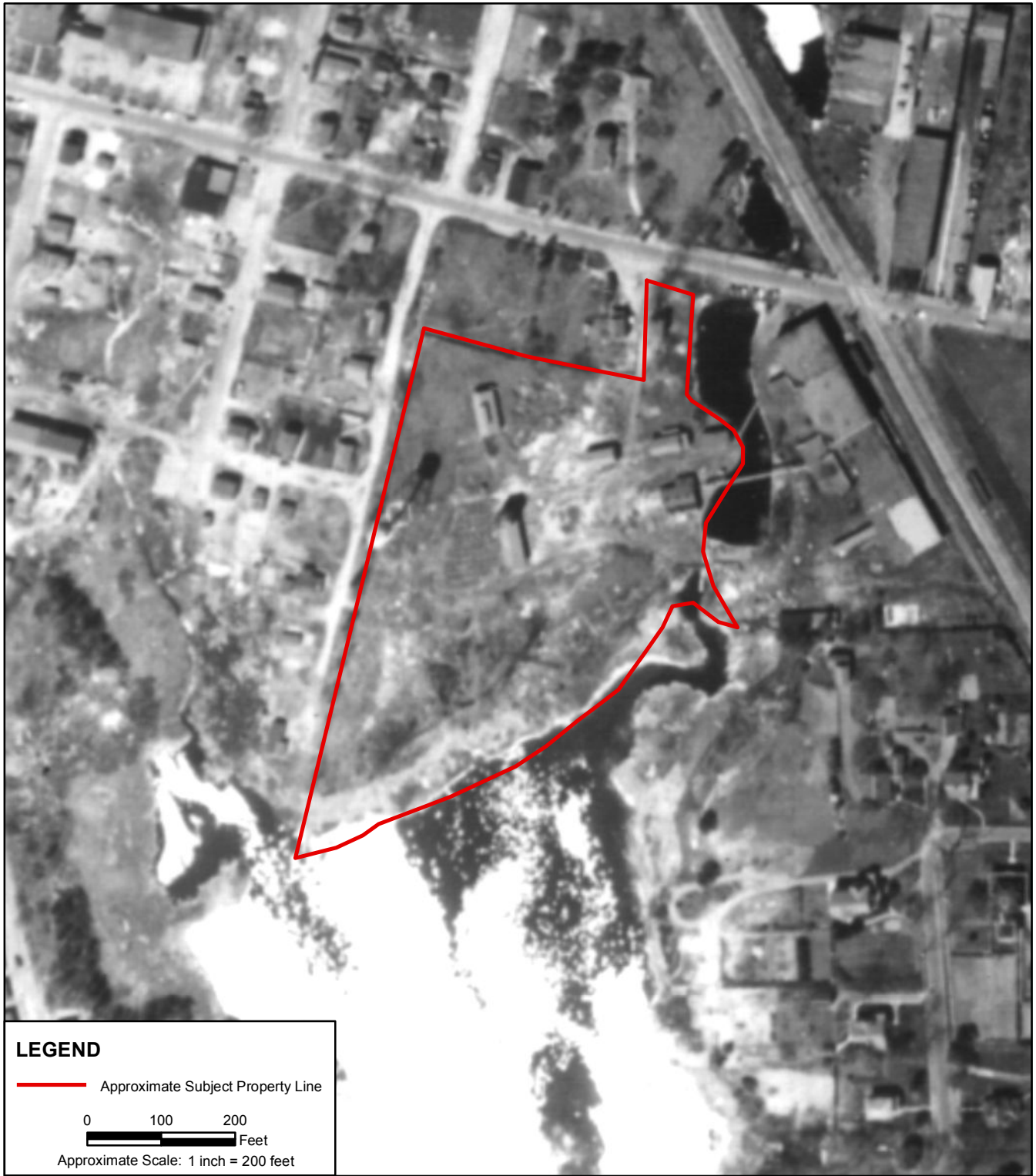
DRAWING DATE: 11/21/2012	SHEET NUMBER: 1 of 1
-----------------------------	-------------------------

PROJECT NUMBER: 7131	DRAWING NAME: SITE PLAN
-------------------------	----------------------------


Data Sources:
 1. ESRI ArcGIS Bing Basemap Hybrid
 2. 1921 Site Plan by Geisser Engineering
 3. 1921 Sanborn Map
 4. Barrington Online GIS Parcel Map
 5. Field activities conducted by Resource Controls


Note: Locations of property lines and site features are approximate.

FIGURE 2



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1939 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3A



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

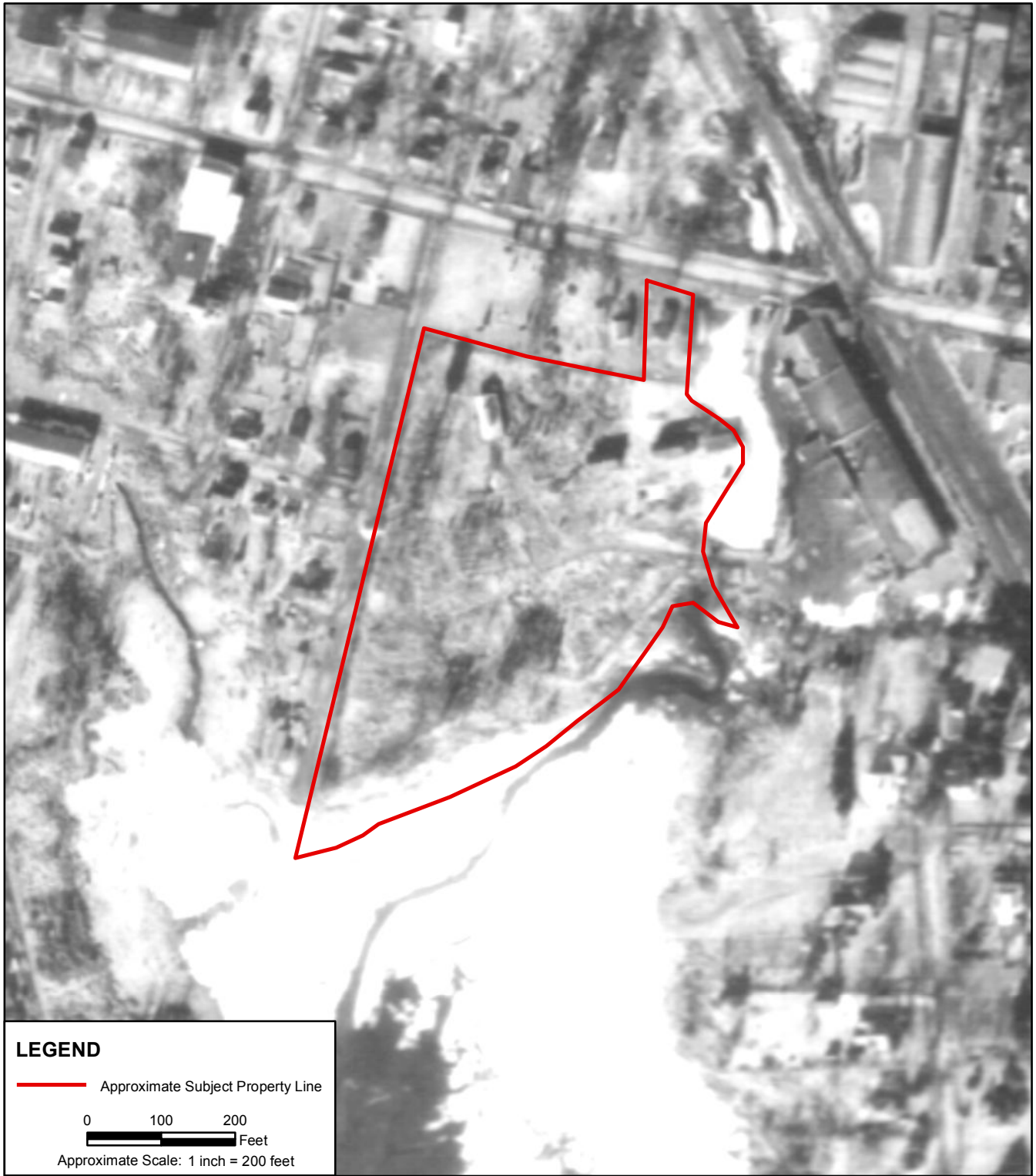
Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1951-52 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3B



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1962 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3C



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1981 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3D



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

1997 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3E



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

2003 AERIAL PHOTOGRAPH


**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**




DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3F



LEGEND

 Approximate Subject Property Line

0 100 200
 Feet

Approximate Scale: 1 inch = 200 feet

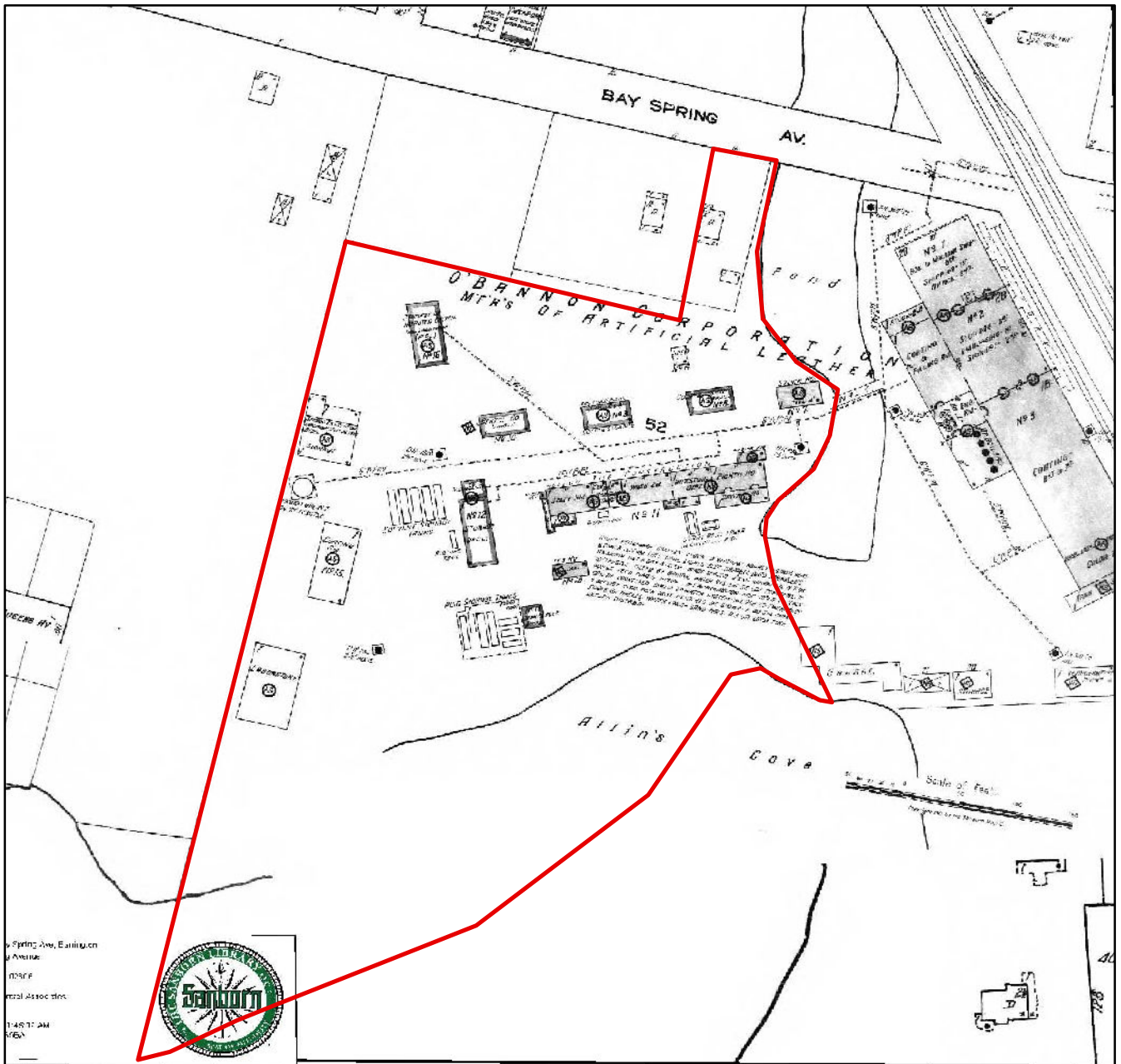
Data Sources: Rhode Island Geographic Information System (RIGIS), Town of Barrington Tax Map No. 2 updated through December 31, 2011.

2008 AERIAL PHOTOGRAPH

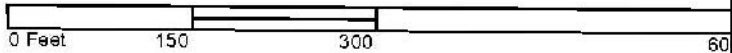
**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**



DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	3G



This Sanborn Map combines the following sheets. The numbers indicate map sheets within the collection.



LEGEND

Approximate Subject Property Line

Feet

Approximate Scale: 1 inch = 140 feet

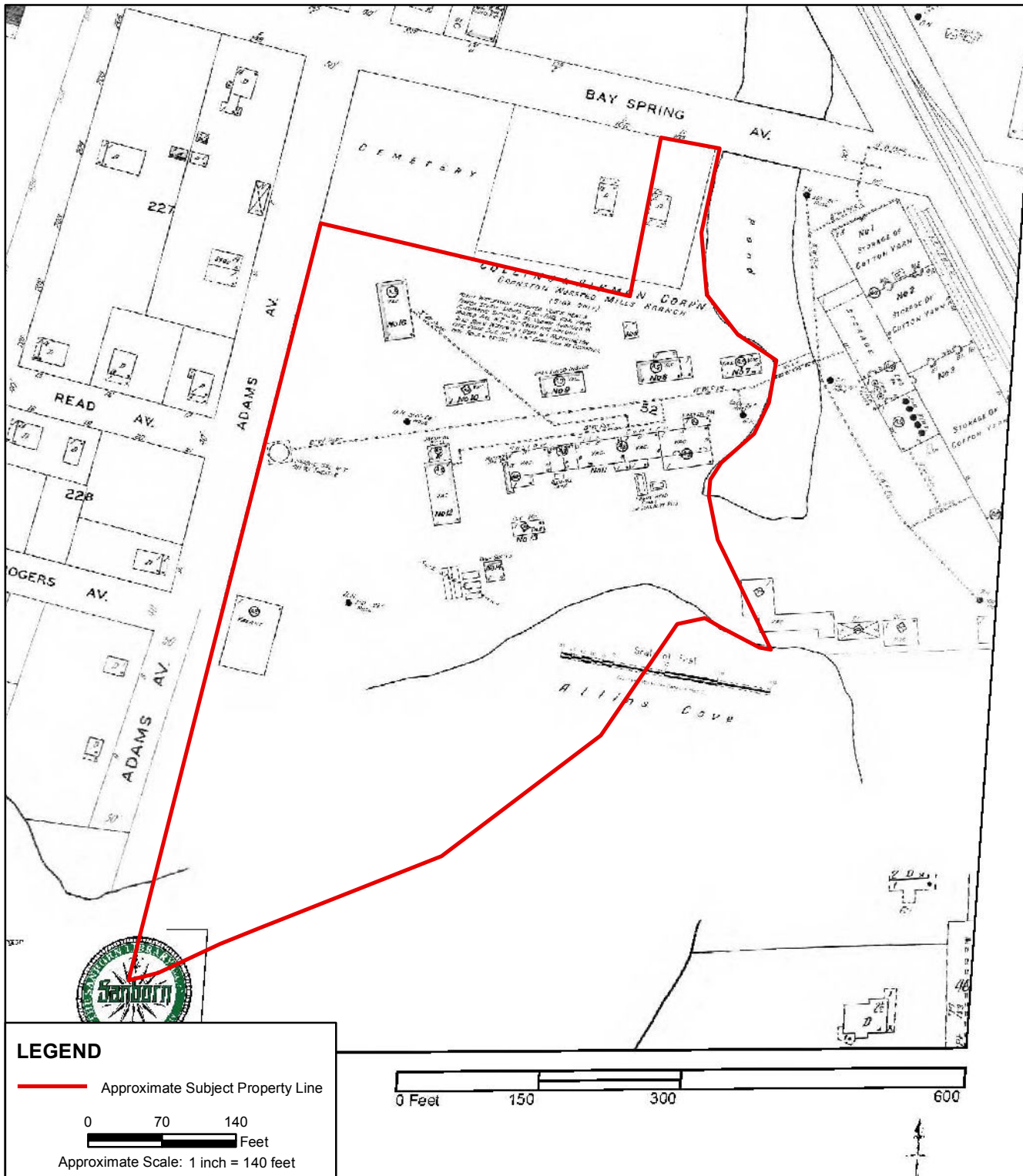
Data Sources: Environmental Data Resources, Inc. (EDR)

1921 SANBORN MAP

**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**



DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	4A



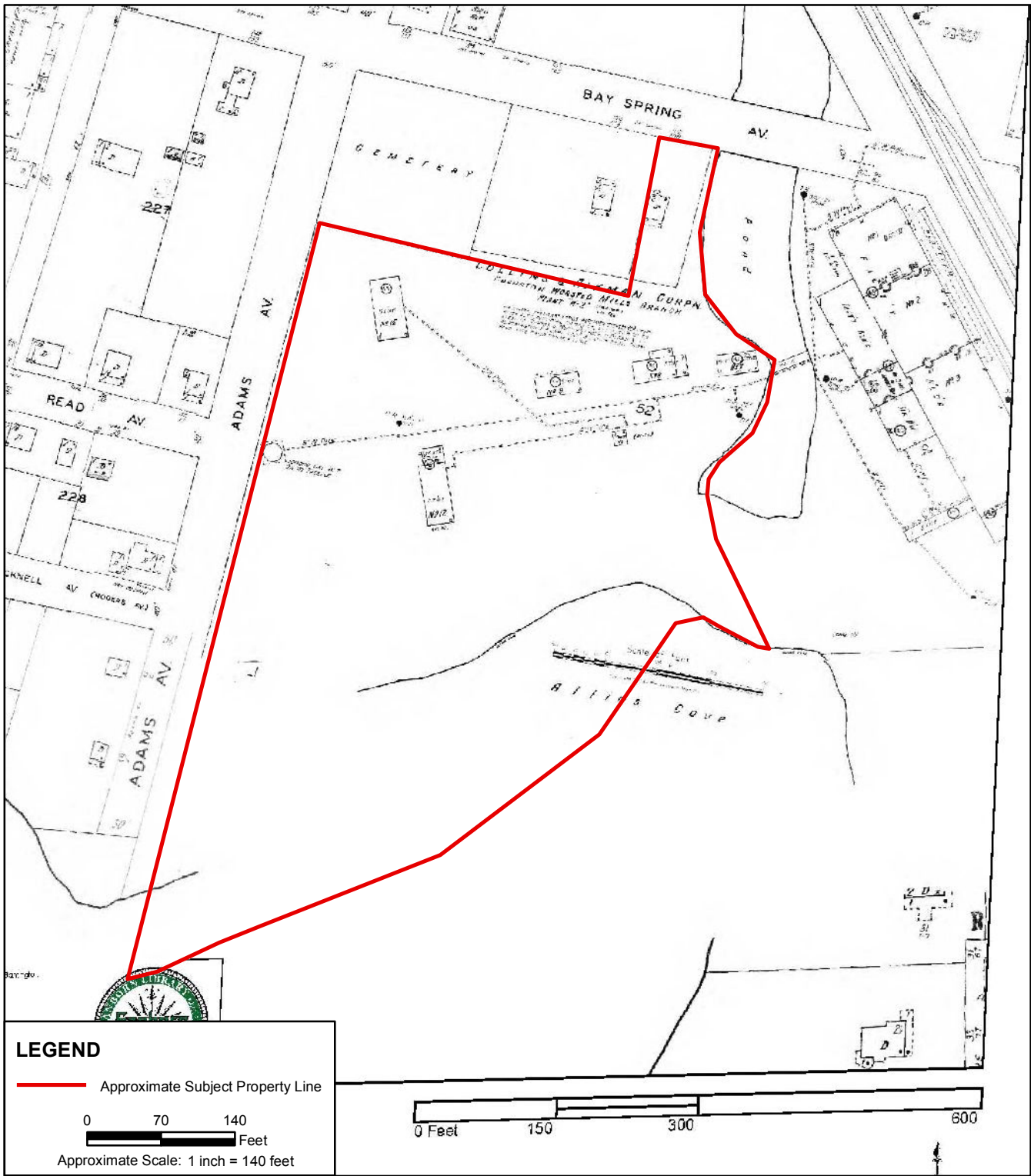
Data Sources: Environmental Data Resources, Inc. (EDR)

1928 SANBORN MAP

**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**

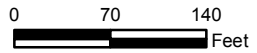


DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	4B

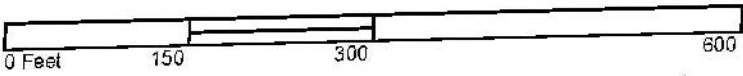


LEGEND

— Approximate Subject Property Line



Approximate Scale: 1 inch = 140 feet



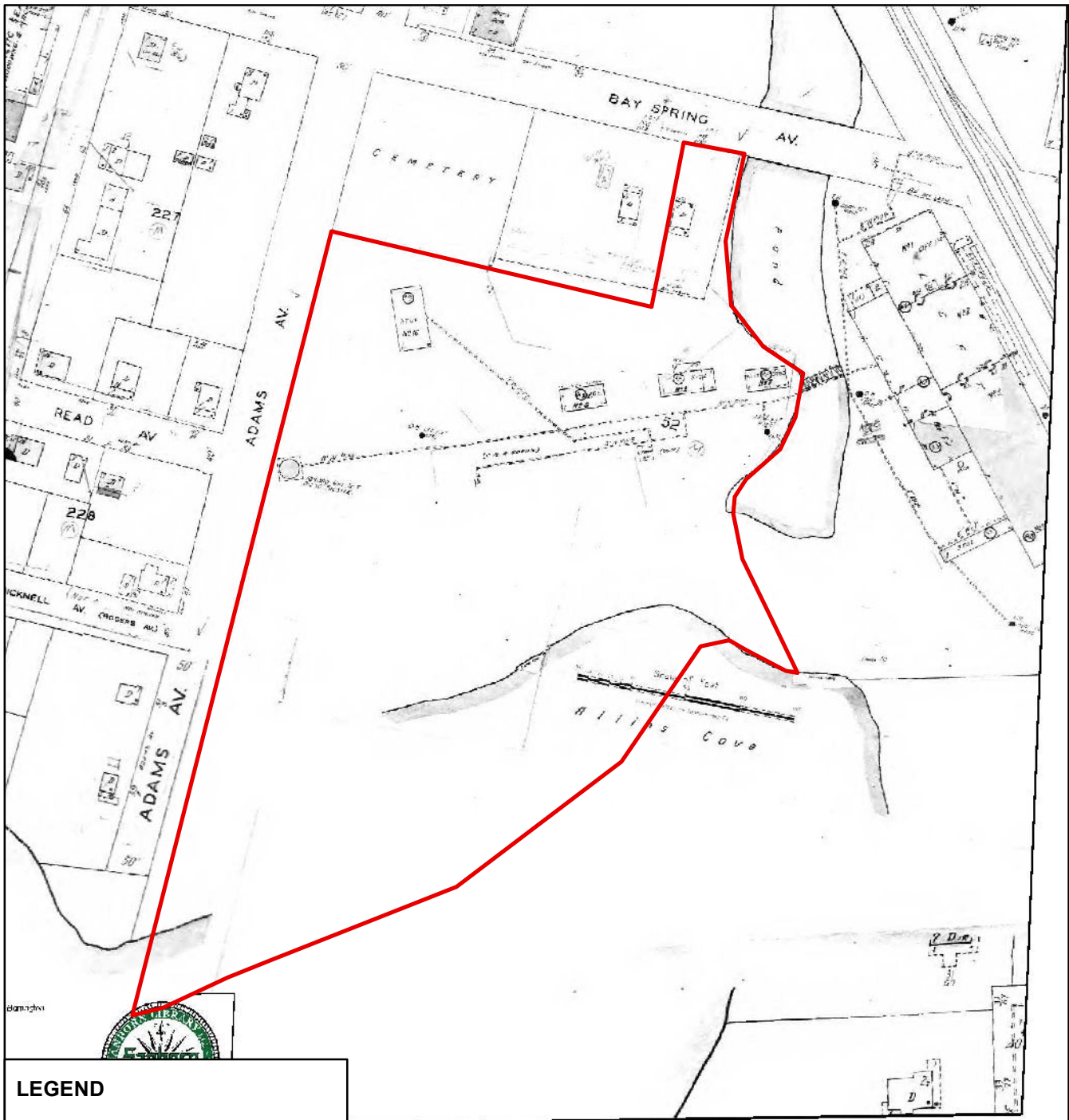
Data Sources: Environmental Data Resources, Inc. (EDR)

1950 SANBORN MAP

**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**

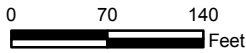


DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	4C



LEGEND

— Approximate Subject Property Line



Approximate Scale: 1 inch = 140 feet



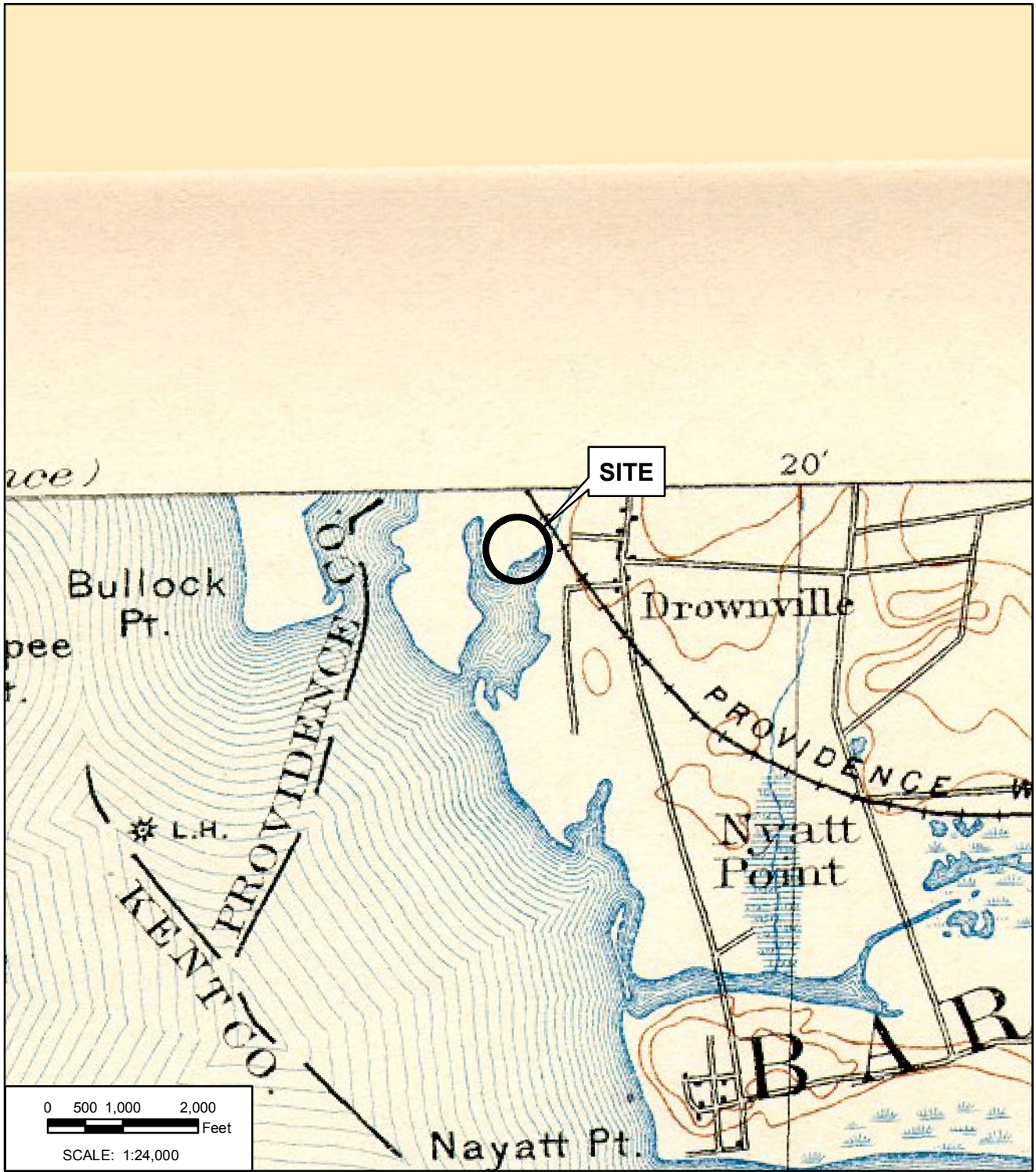
Data Sources: Environmental Data Resources, Inc. (EDR)

1961 SANBORN MAP

**90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND**



DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/06/2012	4D



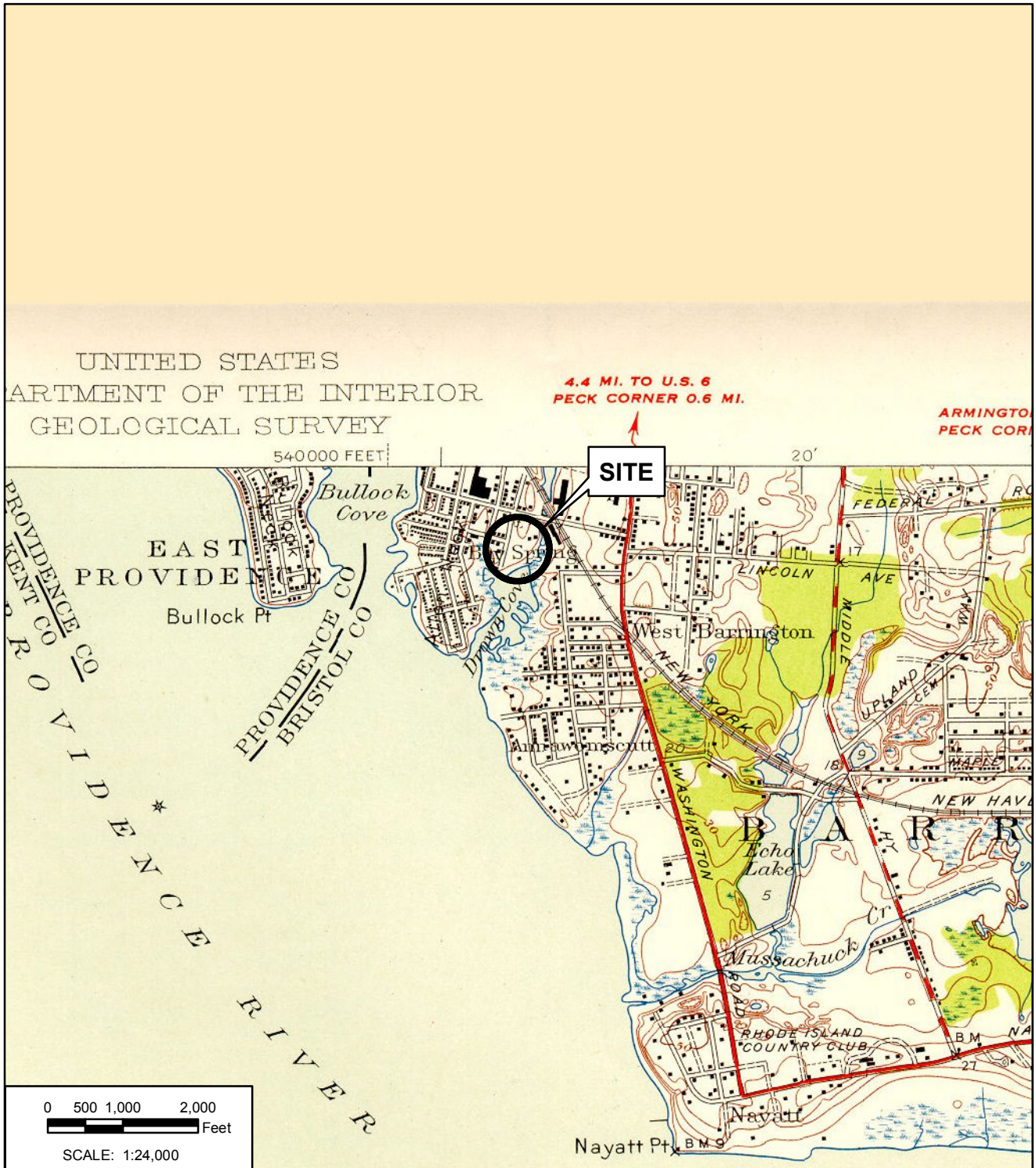
Source: Rhode Island Geographic Information System (RIGIS)
 1892 USGS Topographic Map - Narragansett Bay, Rhode Island-Massachusetts Quad

1892 USGS TOPOGRAPHIC MAP

**90 BAY SPRING AVENUE
 BARRINGTON, RHODE ISLAND**



DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/01/2012	5A



Source: Rhode Island Geographic Information System (RIGIS)
 1939 USGS Topographic Map - Bristol, Rhode Island-Massachusetts Quad

1939 USGS TOPOGRAPHIC MAP

**90 BAY SPRING AVENUE
 BARRINGTON, RHODE ISLAND**



DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	7131	11/01/2012	5B

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

DONEGAN & ASSOCIATES
90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND

Sample Identification Depth Sampled (feet) Date Sampled	S-2	S-3/MW-2	S-6/MW-4	S-8	RIDEM Soil Criteria	
	8.3	5.5	5.0	5.0	Direct Exposure Criteria	
	11/21/2012	11/21/2012	11/21/2012	11/21/2012	Residential	I/C
PHOTOIONIZATION DETECTOR HEADSPACE SCREENING RESULTS (ppmv)						
Total Organic Vapors	2.2	57.1	0.4	79.5	NS	NS
VOLATILE ORGANIC COMPOUNDS (mg/kg)						
1,2,4-Trimethylbenzene	0.0080	0.0321	<0.0057	<0.0027	NS	NS
1,3,5-Trimethylbenzene	0.0107	0.0165	<0.0057	<0.0027	NS	NS
Acetone	0.0968	9.93	<0.0568	<0.0266	7,800	10,000
Chloroform	<0.0041	0.0174	<0.0057	<0.0027	1.2	940
Ethylbenzene	<0.0041	0.325	<0.0057	<0.0027	71	10,000
Isopropylbenzene	<0.0041	0.0426	<0.0057	<0.0027	27	10,000
Naphthalene	0.0079	0.11	<0.0057	<0.0027	54	10,000
Styrene	<0.0041	0.127	<0.0057	<0.0027	13	190
Toluene	<0.0041	0.0452	<0.0057	<0.0027	190	10,000
Xylene O	<0.0041	1.34	<0.0057	<0.0027	110	10,000
Xylene P,M	<0.0081	2.11	<0.0114	<0.0053	110	10,000
Xylenes (Total)	<0.0122	3.45	<0.017	<0.008	110	10,000
All other VOCs	ND	ND	ND	ND	NS	NS
TOTAL METALS (mg/kg)						
Arsenic	--	--	18.9	<1.24	7	7
Barium	--	--	65.6	5.8	5,500	10,000
Cadmium	--	--	<0.57	<0.5	39	1,000
Chromium (Total)	--	--	12.9	2.1	1400	10,000
Lead	--	--	79.9	<5	150	500
Mercury	--	--	1.96	0.052	23	610
Selenium	--	--	<5.6	<5	390	10,000
Silver	--	--	<0.57	<0.5	200	10,000
POLYNUCLEAR AROMATIC HYDROCARBONS / SEMI-VOLATILE ORGANIC COMPOUNDS (mg/kg)						
Anthracene	--	--	1.11	<0.36	35	10,000
Benzo(a)anthracene	--	--	3.34	<0.36	0.9	7.8
Benzo(a)pyrene	--	--	2.27	<0.181	0.4	0.8
Benzo(b)fluoranthene	--	--	3.83	<0.36	0.9	7.8
Benzo(g,h,i)perylene	--	--	2.05	<0.36	0.8	10,000
Benzo(k)fluoranthene	--	--	1.17	<0.36	0.9	78
Chrysene	--	--	4.09	<0.181	0.4	780
Dibenzo(a,h)Anthracene	--	--	0.910	<0.181	0.4	0.8
Fluoranthene	--	--	7.25	<0.36	20	10,000
Indeno(1,2,3-cd)Pyrene	--	--	1.81	<0.36	0.9	7.8
Naphthalene	--	--	0.639	<0.36	54	10,000
Phenanthrene	--	--	5.81	<0.36	40	10,000
Pyrene	--	--	5.41	<0.36	13	10,000
All other SVOCs	--	--	ND	ND	NS	NS
NOTES:						
ppmv = parts per million by volume.						
mg/kg = milligrams per kilogram.						
-- = Not analyzed.						
I/C = Industrial/Commercial						
NS = No standard promulgated.						
ND = Not detected above laboratory reporting limit.						
Bold concentrations exceed laboratory reporting limits.						
Red concentrations exceed the applicable RIDEM Residential Direct Exposure Criteria.						
Red underlined concentrations exceed the applicable RIDEM I/C Direct Exposure Criteria.						

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

DONEGAN & ASSOCIATES
90 BAY SPRING AVENUE
BARRINGTON, RHODE ISLAND

Sample Identification Date Sampled	MW-1	MW-2	MW-3	MW-4	MW-5	RIDEM Groundwater Objectives	
	11/26/2012	11/26/2012	11/26/2012	11/26/2012	11/26/2012	GA Objectives	GB UCLs
VOLATILE ORGANIC COMPOUNDS (ug/L)							
1,1,1-Trichloroethane	<1	<0.1	1.2	<1	<1	200	68,000
1,1-Dichloroethane	<1	<0.1	3	<1	<1	NS	NS
1,2,4-Trimethylbenzene	<1	<0.1	1	<1	4.5	NS	NS
1,3,5-Trimethylbenzene	<1	<0.1	<1	<1	139	NS	NS
4-Isopropyltoluene	<1	<0.1	<1	<1	9.4	NS	NS
Acetone	<10	10.4	102	<10	<10	NS	NS
Benzene	<1	<0.1	1.1	<1	<1	5	18,000
n-Propylbenzene	<1	<0.1	<1	<1	1.3	NS	NS
sec-Butylbenzene	<1	<0.1	<1	<1	1.3	NS	NS
Toluene	<1	<0.1	1.1	<1	<1	1,000	21,000
Xylene O	<1	1	2.2	<1	<1	10,000	NS
Xylene P,M	<2	<0.2	3.6	<2	<2	10,000	NS
Xylenes (Total)	<3	<0.3	5.8	<3	<3	NS	NS
All other VOCs	ND	ND	ND	ND	ND	NS	NS
SEMI-VOLATILE ORGANIC COMPOUNDS (ug/L)							
2-Methylnaphthalene	--	--	<0.2	< 0.21	2.63	NS	NS
Acenaphthene	--	--	<0.2	< 0.21	0.29	NS	NS
Acenaphthylene	--	--	0.3	< 0.21	<0.2	NS	NS
Benzo(a)anthracene	--	--	<0.05	0.08	<0.05	NS	NS
Benzo(a)pyrene	--	--	0.08	< 0.05	<0.05	0.2	NS
Benzo(b)fluoranthene	--	--	0.15	0.1	<0.05	NS	NS
Benzo(k)fluoranthene	--	--	0.05	<0.05	<0.05	NS	NS
Chrysene	--	--	0.09	0.1	<0.05	NS	NS
Indeno(1,2,3-cd)Pyrene	--	--	0.07	<0.05	<0.05	NS	NS
Naphthalene	--	--	0.62	<0.21	1.27	100	NS
All other SVOCs	--	--	ND	ND	ND	NS	NS
RCRA 8 METALS (mg/L)							
Arsenic	--	--	0.0065	0.0146	<0.0025	0.01	NS
Barium	--	--	0.096	0.096	0.035	2	NS
Cadmium	--	--	<0.0025	<0.0025	<0.0025	0.005	NS
Chromium	--	--	<0.01	0.01	<0.01	0.1	NS
Lead	--	--	0.053	0.012	<0.01	0.015	NS
Mercury	--	--	<0.0005	<0.0005	<0.0005	0.002	NS
Selenium	--	--	<0.025	<0.025	<0.025	0.05	NS
Silver	--	--	<0.005	<0.005	<0.005	NS	NS
NOTES:							
ug/L = micrograms per liter.							
mg/L = milligrams per liter.							
NS = No standard promulgated.							
ND = Not detected above laboratory reporting limit.							
-- = Not analyzed.							
Bold concentrations exceed concentrations exceed laboratory reporting limits.							
Red concentrations exceed the applicable RIDEM GA Groundwater Objectives.							

APPENDIX A

Site Photographs



1) View of the metal cistern-like object located in the center of the Subject Property.



2) View of the former acid tank storage area with concrete holdings presently in place.



3) View of the brick-constructed pit located on the eastern portion of the Subject Property.



4) View of the partially exposed UST located on the eastern portion of the Subject Property.



5) View of the concrete-constructed pit located on the northeastern portion of the Subject Property.



6) View of an abandoned AST located on the northeastern portion of the Subject Property.



7) View of a discarded 55-gallon container and miscellaneous dumping observed throughout the Subject Property.



8) View of the several pits located along the southern portion of the Subject Property.

APPENDIX B

EDR Radius Map Report

Donegan, Bay Spring Ave, Barrington

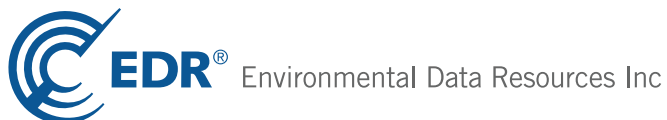
90 Bay Spring Avenue

Barrington, RI 02806

Inquiry Number: 3440007.2s

October 24, 2012

EDR Summary Radius Map Report



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	7
Orphan Summary	42
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-12
Physical Setting Source Map Findings	A-14
Physical Setting Source Records Searched	A-20

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

90 BAY SPRING AVENUE
BARRINGTON, RI 02806

COORDINATES

Latitude (North): 41.7474000 - 41° 44' 50.64"
Longitude (West): 71.3464000 - 71° 20' 47.04"
Universal Transverse Mercator: Zone 19
UTM X (Meters): 304898.5
UTM Y (Meters): 4624178.5
Elevation: 14 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: TP
Source: USGS 7.5 min quad index

Target Property: N
Source: USGS 7.5 min quad index

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2010
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 90 BAY SPRING AVENUE
 BARRINGTON, RI 02806

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
A1	VIKING INDUSTRIES IN	90 BAY SPRING AVE	FINDS		TP
A2	HILLS TIRE & AUTO	90 BAY SPRING AVE	RCRA-NonGen, FINDS		TP
A3	HILLS TIRE & AUTO	90 BAY SPRING AVENUE	RCRA-NonGen		TP
A4		90 BAY SPRING RD	SPILLS		TP
A5	RAINBOW SPRING	90 BAY SPRING AVE	FINDS		TP
A6	PILLING CHAIN COMPAN	90 BAY SPRING AVE	MANIFEST		TP
A7	PILLING MFG., INC.	90 BAY SPRING AVE	UST		TP
A8	BAN REALTY PILLING C	90 BAY SPRING AVENUE	RCRA-NonGen, FINDS		TP
9		41 ADAMS AVE	SPILLS	Higher	20, WSW
10	BAY SPRING SERVICE G	115 BAY SPRING AVE	UST	Higher	164, North
B11		75 SPRING STREET	SPILLS	Lower	429, WSW
B12		51 SPRING ST	SPILLS	Lower	465, WSW
13	MARTEK CORP	60 BAY SPRING AVE	RCRA-NonGen, FINDS, MANIFEST	Higher	512, ENE
14	H. BICKFORD LANG	27 ALFRED DROWNE RD	UST	Higher	558, SE
C15	CRIS REALTY COMPANY	166 BAY SPRING AVE	UST	Lower	566, NW
C16	RHODE ISLAND LACE WO		UST	Higher	681, WNW
C17	RI LACE WORKS (FORME	BAY SPRING & NARRAGA	SHWS, AUL	Lower	795, NW
D18	WEST BARRINGTON AUTO	9 BAY SPRING AVE	UST	Higher	1019, East
D19	R I LACE WORKS DIV	BAY SPRING AVE	RCRA-NonGen, FINDS, MANIFEST, MANIFEST	Higher	1088, East
E20	COVE HAVEN CORPORATI	101 NARRAGANSETT AVE	MANIFEST	Higher	1104, NNW
E21	COVE HAVEN MARINA	101 NARRAGANSETT AVE	MANIFEST	Higher	1104, NNW
E22	COVE HAVEN CORP	101 NARRAGANSETT AVE	RCRA-SQG, FINDS, UST, MANIFEST	Higher	1104, NNW
E23		101 NARRAGANSETT AVE	SPILLS	Higher	1104, NNW
24		15 ALLEN AVE	SPILLS	Higher	1151, NW
25	PHOTOGRAPHIC CHEM RE	2 LESLIE AVE	RCRA-NonGen, FINDS, MANIFEST	Lower	1212, WNW
F26	LAVIN'S MARINA	110 SHORE DRIVE	LUST	Higher	1297, West
F27	LIGHTHOUSE MARINA, L	110 SHORE DR	UST	Higher	1297, West
28		8 ALDEN ROAD	SPILLS	Higher	2187, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
VIKING INDUSTRIES IN 90 BAY SPRING AVE BARRINGTON, RI 02806	FINDS	N/A
HILLS TIRE & AUTO 90 BAY SPRING AVE BARRINGTON, RI 02806	RCRA-NonGen FINDS	RI5000001248
HILLS TIRE & AUTO 90 BAY SPRING AVENUE BARRINGTON, RI 02806	RCRA-NonGen	RID987469798
90 BAY SPRING RD 90 BAY SPRING RD BARRINGTON, RI	SPILLS	N/A
RAINBOW SPRING 90 BAY SPRING AVE BARRINGTON, RI 02806	FINDS	N/A
PILLING CHAIN COMPAN 90 BAY SPRING AVE W BARRINGTON, RI 02806	MANIFEST	N/A
PILLING MFG., INC. 90 BAY SPRING AVE BARRINGTON, RI	UST	N/A
BAN REALTY PILLING C 90 BAY SPRING AVENUE BARRINGTON, RI 02806	RCRA-NonGen FINDS	RID001197326

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: A review of the RCRA-SQG list, as provided by EDR, and dated 03/15/2012 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COVE HAVEN CORP	101 NARRAGANSETT AVE	NNW 1/8 - 1/4 (0.209 mi.)	E22	11

State- and tribal - equivalent CERCLIS

SHWS: A review of the SHWS list, as provided by EDR, and dated 07/30/2012 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RI LACE WORKS (FORME) Facility Status: Inactive	BAY SPRING & NARRAGA	NW 1/8 - 1/4 (0.151 mi.)	C17	10

State and tribal leaking storage tank lists

LUST: A review of the LUST list, as provided by EDR, and dated 08/02/2012 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LAVIN'S MARINA Facility Status: Inactive; Investigation/Remed. Complete, No Further Action Required	110 SHORE DRIVE	W 1/8 - 1/4 (0.246 mi.)	F26	11

State and tribal registered storage tank lists

UST: A review of the UST list, as provided by EDR, and dated 08/02/2012 has revealed that there are 7 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BAY SPRING SERVICE G	115 BAY SPRING AVE	N 0 - 1/8 (0.031 mi.)	10	8
H. BICKFORD LANG	27 ALFRED DROWNE RD	SE 0 - 1/8 (0.106 mi.)	14	9
RHODE ISLAND LACE WO		WNW 1/8 - 1/4 (0.129 mi.)	C16	9
WEST BARRINGTON AUTO	9 BAY SPRING AVE	E 1/8 - 1/4 (0.193 mi.)	D18	10
COVE HAVEN CORP	101 NARRAGANSETT AVE	NNW 1/8 - 1/4 (0.209 mi.)	E22	11
LIGHTHOUSE MARINA, L	110 SHORE DR	W 1/8 - 1/4 (0.246 mi.)	F27	12
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CRIS REALTY COMPANY	166 BAY SPRING AVE	NW 0 - 1/8 (0.107 mi.)	C15	9

EXECUTIVE SUMMARY

State and tribal institutional control / engineering control registries

AUL: A review of the AUL list, as provided by EDR, and dated 08/08/2012 has revealed that there is 1 AUL site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>RI LACE WORKS (FORME</i>	<i>BAY SPRING & NARRAGA</i>	<i>NW 1/8 - 1/4 (0.151 mi.)</i>	<i>C17</i>	<i>10</i>

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

SPILLS: A review of the SPILLS list, as provided by EDR, and dated 11/15/2004 has revealed that there are 6 SPILLS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	41 ADAMS AVE	WSW 0 - 1/8 (0.004 mi.)	9	8
Not reported	101 NARRAGANSETT AVE	NNW 1/8 - 1/4 (0.209 mi.)	E23	11
Not reported	15 ALLEN AVE	NW 1/8 - 1/4 (0.218 mi.)	24	11
Not reported	8 ALDEN ROAD	SE 1/4 - 1/2 (0.414 mi.)	28	12

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	75 SPRING STREET	WSW 0 - 1/8 (0.081 mi.)	B11	8
Not reported	51 SPRING ST	WSW 0 - 1/8 (0.088 mi.)	B12	9

Other Ascertainable Records

MANIFEST: A review of the MANIFEST list, as provided by EDR, and dated 12/31/2011 has revealed that there are 4 MANIFEST sites within approximately 0.25 miles of the target property.

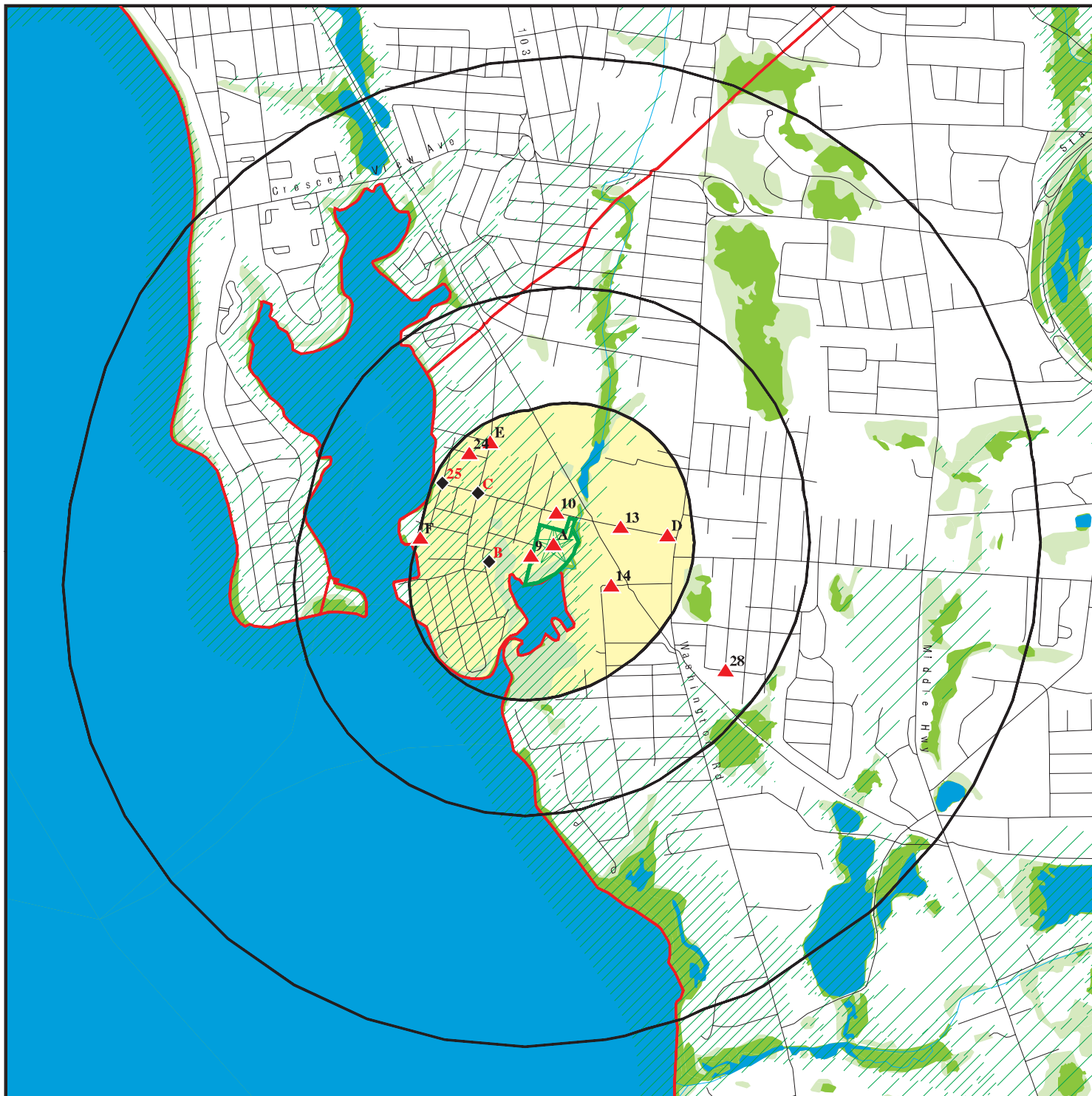
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>MARTEK CORP</i>	<i>60 BAY SPRING AVE</i>	<i>ENE 0 - 1/8 (0.097 mi.)</i>	<i>13</i>	<i>9</i>
<i>RI LACE WORKS DIV</i>	<i>BAY SPRING AVE</i>	<i>E 1/8 - 1/4 (0.206 mi.)</i>	<i>D19</i>	<i>10</i>
<i>COVE HAVEN CORP</i>	<i>101 NARRAGANSETT AVE</i>	<i>NNW 1/8 - 1/4 (0.209 mi.)</i>	<i>E22</i>	<i>11</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>PHOTOGRAPHIC CHEM RE</i>	<i>2 LESLIE AVE</i>	<i>WNW 1/8 - 1/4 (0.230 mi.)</i>	<i>25</i>	<i>11</i>

Count: 26 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BARRINGTON	89101717	BARRINGTON HARBOR AT END OF MATHEW	BARRINGTON HARBOR AT END OF MA		ERNS
BARRINGTON	877270	BARRINGTON HARBOR, SOUTH SHORE BUO	BARRINGTON HARBOR, SOUTH SHORE		ERNS
BARRINGTON	92268823	BARRINGTON RIVER YACHT CLUB	BARRINGTON RIVER YACHT CLUB		ERNS
BARRINGTON	S109823703	NATIONAL GRID - BRADFORD RD. POLE	9 BRADFORD ST	02806	SHWS
BARRINGTON	S109790905	JPR RALTY BARRINGTON SHOPPING C	CONTY RD		MANIFEST
BARRINGTON	S109790285	BARRINGTON GETTY	227 COUNTRY RD		MANIFEST
BARRINGTON	S109791639	BARRINGTON POLICE	COUNTY RD		MANIFEST
BARRINGTON	S105082091	RI DOT - COUNTY RD	COUNTY RD		SHWS
BARRINGTON	S109823710	RICO HEADER TOOLS FACILITY	METACOM AVE	02806	SHWS
BARRINGTON	S109823688	BRISTOL NIKE CONTROL (PR-38C) NO F	METACOM AVE	02806	SHWS
BARRINGTON	S109823689	BRISTOL NIKE LAUNCH (PR-38L)	METACOM AVE	02806	SHWS
BARRINGTON	S109823690	BRISTOL NIKE LAUNCHER AREA	METACOM AVE	02806	SHWS
BARRINGTON	S109578285	BAYSIDE YMCA PARKING LOT	OFF OF WEST ST		SHWS
BARRINGTON	S110043401	BARRINGTON LANDFILL #1	PRINCESS HILL AVE		SWF/LF
BARRINGTON	S110043402	BARRINGTON LANDFILL #2	PRINCESS HILL AVE		SWF/LF
BARRINGTON	S110043347	BARRINGTON LANDFILL #2	PRINCESS HILL AVE		LCP
BARRINGTON	S110043346	BARRINGTON LANDFILL #1	PRINCESS HILL AVE		LCP
BARRINGTON	S108852221	BARRINGTON LANDFILL NO. 1	PRINCESS HILL AVE		SHWS
BARRINGTON	S109790298	BARRINGTON HIGHWAY DEPT	SEE RCRIS	02806	MANIFEST
BARRINGTON	S110043349	BARRINGTON LANDFILL #4	UPLAND WAY		LCP
BARRINGTON	S110043348	BARRINGTON LANDFILL #3	UPLAND WAY		LCP
BARRINGTON	S109015327	BARRINGTON LANDFILL NO. 3	UPLAND WAY		SHWS
BARRINGTON	S110043404	BARRINGTON LANDFILL #4	UPLAND WAY		SWF/LF
BARRINGTON	S110043403	BARRINGTON LANDFILL #3	UPLAND WAY		SWF/LF
BARRINGTON	S105176693	BARRINGTON COMPOST FACILITY	WAMPANOAG TRL		SWF/LF
RIVERSIDE	S109791192	WALLET AV X-TRA MART	973 WILLET AV	02915	MANIFEST

OVERVIEW MAP - 3440007.2s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

County Boundary

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Donegan, Bay Spring Ave, Barrington
 ADDRESS: 90 Bay Spring Avenue
 Barrington RI 02806
 LAT/LONG: 41.7474 / 71.3464

CLIENT: Resource Control Associates
 CONTACT: Julie Freshman
 INQUIRY #: 3440007.2s
 DATE: October 24, 2012 12:12 pm

DETAIL MAP - 3440007.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: Donegan, Bay Spring Ave, Barrington ADDRESS: 90 Bay Spring Avenue Barrington RI 02806 LAT/LONG: 41.7474 / 71.3464</p>	<p>CLIENT: Resource Control Associates CONTACT: Julie Freshman INQUIRY #: 3440007.2s DATE: October 24, 2012 12:14 pm</p>
---	---

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	1	0	0	NR	1
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
LCP	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	1	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	0.250	1	3	4	NR	NR	NR	8

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	1	0	NR	NR	1
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	0.500	1	3	2	1	NR	NR	7
Other Ascertainable Records								
RCRA-NonGen	TP	3	NR	NR	NR	NR	NR	3
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	4	NR	NR	NR	NR	NR	4
RAATS	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250	1	1	5	NR	NR	NR	7
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	1.000		0	0	0	0	NR	0
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID			
Direction			
Distance			
Elevation	Site	Database(s)	EDR ID Number EPA ID Number

A1	VIKING INDUSTRIES INC		
Target	90 BAY SPRING AVE	FINDS	1004592605
Property	BARRINGTON, RI 02806		N/A

Actual: [Click here for full text details](#)
14 ft.

A2	HILLS TIRE & AUTO	RCRA-NonGen	1000891089
Target	90 BAY SPRING AVE	FINDS	RI5000001248
Property	BARRINGTON, RI 02806		

Actual: [Click here for full text details](#)
14 ft.

A3	HILLS TIRE & AUTO	RCRA-NonGen	1000292086
Target	90 BAY SPRING AVENUE		RID987469798
Property	BARRINGTON, RI 02806		

Actual: [Click here for full text details](#)
14 ft.

A4	90 BAY SPRING RD		
Target	BARRINGTON, RI	SPILLS	S104305507
Property			N/A

Actual: [Click here for full text details](#)
14 ft.

A5	RAINBOW SPRING		
Target	90 BAY SPRING AVE	FINDS	1004592606
Property	BARRINGTON, RI 02806		N/A

Actual: [Click here for full text details](#)
14 ft.

A6	PILLING CHAIN COMPANY		
Target	90 BAY SPRING AVE	MANIFEST	1009246921
Property	W BARRINGTON, RI 02806		N/A

Actual: [Click here for full text details](#)
14 ft.

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
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A7 Target Property	PILLING MFG., INC. 90 BAY SPRING AVE BARRINGTON, RI	UST	U001210932 N/A
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Actual: [Click here for full text details](#)
14 ft.
UST
Tank Status: Permanently Closed

A8 Target Property	BAN REALTY PILLING CHAIN COMPANY 90 BAY SPRING AVENUE BARRINGTON, RI 02806	RCRA-NonGen FINDS	1000129539 RID001197326
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Actual: [Click here for full text details](#)
14 ft.

9 WSW < 1/8 0.004 mi. 20 ft.	41 ADAMS AVE BARRINGTON, RI	SPILLS	S104305489 N/A
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Relative: [Click here for full text details](#)
Higher

10 North < 1/8 0.031 mi. 164 ft.	BAY SPRING SERVICE GARAGE, INC. 115 BAY SPRING AVE BARRINGTON, RI	UST	U001212894 N/A
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Relative: [Click here for full text details](#)
Higher
UST
Tank Status: Permanently Closed
Tank Status: Permanently Closed

B11 WSW < 1/8 0.081 mi. 429 ft.	75 SPRING STREET BARRINGTON, RI	SPILLS	S104305490 N/A
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Relative: [Click here for full text details](#)
Lower

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

B12 WSW < 1/8 0.088 mi. 465 ft. Relative: Lower	51 SPRING ST BARRINGTON, RI Click here for full text details	SPILLS	S104305512 N/A
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13 ENE < 1/8 0.097 mi. 512 ft. Relative: Higher	MARTEK CORP 60 BAY SPRING AVE BARRINGTON, RI 02806 Click here for full text details	RCRA-NonGen FINDS MANIFEST	1000695681 RID987476769
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14 SE < 1/8 0.106 mi. 558 ft. Relative: Higher	H. BICKFORD LANG 27 ALFRED DROWNE RD BARRINGTON, RI Click here for full text details	UST	U003208147 N/A
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UST
Tank Status: Permanently Closed

C15 NW < 1/8 0.107 mi. 566 ft. Relative: Lower	CRIS REALTY COMPANY 166 BAY SPRING AVE BARRINGTON, RI Click here for full text details	UST	U001210964 N/A
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UST
Tank Status: Permanently Closed

C16 WNW 1/8-1/4 0.129 mi. 681 ft. Relative: Higher	RHODE ISLAND LACE WORKS DIVISION BARRINGTON, RI Click here for full text details	UST	U003208211 N/A
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UST
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

C17
NW
 1/8-1/4
 0.151 mi.
 795 ft.

RI LACE WORKS (FORMER)
BAY SPRING & NARRAGANSETT AVE
BARRINGTON, RI

SHWS
AUL

S103763731
N/A

[Click here for full text details](#)

Relative:
 Lower

SHWS
 Facility Status: Inactive

D18
East
 1/8-1/4
 0.193 mi.
 1019 ft.

WEST BARRINGTON AUTO SALES & SERVICE
9 BAY SPRING AVE
BARRINGTON, RI

UST

U001213508
N/A

[Click here for full text details](#)

Relative:
 Higher

UST
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed
 Tank Status: Permanently Closed

D19
East
 1/8-1/4
 0.206 mi.
 1088 ft.

R I LACE WORKS DIV
BAY SPRING AVE
BARRINGTON, RI 02806

RCRA-NonGen
FINDS
MANIFEST
MANIFEST

1000271693
RID001190545

[Click here for full text details](#)

Relative:
 Higher

E20
NNW
 1/8-1/4
 0.209 mi.
 1104 ft.

COVE HAVEN CORPORATION
101 NARRAGANSETT AVE
BARRINGTON, RI 02806

MANIFEST

S109789600
N/A

[Click here for full text details](#)

Relative:
 Higher

E21
NNW
 1/8-1/4
 0.209 mi.
 1104 ft.

COVE HAVEN MARINA
101 NARRAGANSETT AVE.
BARRINGTON, RI

MANIFEST

S109790038
N/A

[Click here for full text details](#)

Relative:
 Higher

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
E22 NNW 1/8-1/4 0.209 mi. 1104 ft. Relative: Higher	COVE HAVEN CORP 101 NARRAGANSETT AVE BARRINGTON, RI 02806 Click here for full text details UST Tank Status: Permanently Closed Tank Status: In Use Tank Status: Permanently Closed Tank Status: In Use Tank Status: Permanently Closed Tank Status: Permanently Closed Tank Status: Permanently Closed	RCRA-SQG FINDS UST MANIFEST	1000196939 RID062322227
E23 NNW 1/8-1/4 0.209 mi. 1104 ft. Relative: Higher	101 NARRAGANSETT AVE BARRINGTON, RI Click here for full text details	SPILLS	S104305509 N/A
24 NW 1/8-1/4 0.218 mi. 1151 ft. Relative: Higher	15 ALLEN AVE BARRINGTON, RI Click here for full text details	SPILLS	S104310109 N/A
25 WNW 1/8-1/4 0.230 mi. 1212 ft. Relative: Lower	PHOTOGRAPHIC CHEM RECOVERY SERVICE 2 LESLIE AVE BARRINGTON, RI 02806 Click here for full text details	RCRA-NonGen FINDS MANIFEST	1000415464 RID987467115
F26 West 1/8-1/4 0.246 mi. 1297 ft. Relative: Higher	LAVIN'S MARINA 110 SHORE DRIVE BARRINGTON, RI Click here for full text details LUST Facility Status: Inactive; Investigation/Remed. Complete, No Further Action Required	LUST	S104180053 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
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F27 West 1/8-1/4 0.246 mi. 1297 ft.	LIGHTHOUSE MARINA, LLC 110 SHORE DR BARRINGTON, RI Click here for full text details	UST	U001211222 N/A
Relative: Higher	UST Tank Status: Permanently Closed Tank Status: In Use Tank Status: Permanently Closed		

28 SE 1/4-1/2 0.414 mi. 2187 ft.	8 ALDEN ROAD BARRINGTON, RI Click here for full text details	SPILLS	S104307687 N/A
Relative: Higher			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
RI	AIRS	Air Emissions Listing	Department of Environmental Management	12/31/2010	02/25/2011	03/08/2011
RI	AST	Aboveground Storage Tanks	Department of Environmental Management	03/01/2012	05/29/2012	06/08/2012
RI	AUL	ELUR Listing	Department of Environmental Management	08/08/2012	08/14/2012	09/13/2012
RI	BROWNFIELDS	Brownfields Site List	Department of Environmental Management	10/02/2003	10/07/2003	10/21/2003
RI	CDL	Clandestine Drug Lab Information Listing	Dept of Environmental Management	10/03/2006	12/04/2006	12/18/2006
RI	DRYCLEANERS	Drycleaner Facility Listing	Department of Environmental Management	12/31/2010	02/25/2011	03/08/2011
RI	FINANCIAL ASSURANCE	Financial Assurance Information	Department of Environmental Management	05/14/2010	05/14/2010	06/21/2010
RI	LCP	Landfill Closure Program Listing	Department of Environmental Management	07/30/2012	07/31/2012	08/31/2012
RI	LEAD	Lead Inspections Database	Department of Health, Environmental Lead Prog	09/25/2012	09/26/2012	10/22/2012
RI	LUST	Leaking Underground Storage Tank Facilities	Department of Environmental Management	08/02/2012	08/09/2012	08/31/2012
RI	NPDES	Permit and Facility Data	Department of Environmental Management	08/23/2012	08/29/2012	08/31/2012
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2011	06/22/2012	07/31/2012
RI	SHWS	State Hazardous Waste Sites	Department of Environmental Management	07/30/2012	08/09/2012	08/31/2012
RI	SPIILLS	Oil & Hazardous Material Response Log/Spill Report	Dept. of Environmental Management	11/15/2004	02/04/2005	03/24/2005
RI	SWF/LF	Solid Waste Management Facilities	Department of Environmental Management	07/30/2012	08/09/2012	09/13/2012
RI	UST	Underground Storage Tank Facility Master List	Department of Environmental Management	08/02/2012	08/09/2012	09/13/2012
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	11/11/2011	05/18/2012	05/25/2012
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2009	03/01/2011	05/02/2011
US	CERCLIS	Comprehensive Environmental Response, Compensation, and Liab	EPA	12/27/2011	02/27/2012	03/12/2012
US	CERCLIS-NFRAP	CERCLIS No Further Remedial Action Planned	EPA	12/28/2011	02/27/2012	03/12/2012
US	COAL ASH DOE	Sleam-Electric Plan Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	08/17/2010	01/03/2011	03/21/2011
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	06/01/2012	07/24/2012	09/18/2012
US	CORRACTS	Corrective Action Report	EPA	08/19/2011	08/31/2011	01/10/2012
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DELISTED NPL	National Priority List Deletions	EPA	06/07/2012	07/05/2012	09/18/2012
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	07/31/2012	08/13/2012	09/18/2012
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	04/02/2012	04/03/2012	06/14/2012
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	12/10/2010	01/11/2011	02/16/2011
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	01/01/2010	02/16/2010	04/12/2010
US	FINDS	Facility Index System/Facility Registry System	EPA	10/23/2011	12/13/2011	03/01/2012
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	12/31/2009	08/12/2010	12/02/2010
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	04/01/2012	04/03/2012	06/14/2012
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	07/20/2011	11/10/2011	01/10/2012
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/12/2012	05/09/2012	07/10/2012
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	08/01/2012	08/02/2012	10/16/2012
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	12/14/2011	12/15/2011	01/10/2012
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	09/12/2011	09/13/2011	11/11/2011
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	08/17/2012	08/28/2012	10/16/2012
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	08/27/2012	08/28/2012	10/16/2012

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	09/06/2012	09/07/2012	10/16/2012
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2005	12/08/2006	01/11/2007
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	04/12/2012	05/02/2012	07/16/2012
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	08/01/2012	08/02/2012	10/16/2012
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	12/14/2011	12/15/2011	01/10/2012
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	02/28/2012	02/29/2012	05/15/2012
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	05/10/2011	05/11/2011	06/14/2011
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	08/17/2012	08/28/2012	10/16/2012
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	08/27/2012	08/28/2012	10/16/2012
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	09/06/2012	09/07/2012	10/16/2012
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	09/28/2012	10/02/2012	10/16/2012
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	02/16/2012	03/26/2012	06/14/2012
US	LUCIS	Land Use Control Information System	Department of the Navy	12/09/2005	12/11/2006	01/11/2007
US	MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/18/2011	09/08/2011	09/29/2011
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	06/21/2011	07/15/2011	09/13/2011
US	Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	NPL	National Priority List	EPA	06/07/2012	07/05/2012	09/18/2012
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	11/01/2010	11/10/2010	02/16/2011
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	02/01/2011	10/19/2011	01/10/2012
US	PRP	Potentially Responsible Parties	EPA	06/07/2012	07/02/2012	10/16/2012
US	Proposed NPL	Proposed National Priority List Sites	EPA	06/07/2012	07/05/2012	09/18/2012
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	01/10/2012	01/12/2012	03/01/2012
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	03/15/2012	04/04/2012	05/15/2012
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/15/2012	04/04/2012	05/15/2012
US	RCRA-NonGen	RCRA - Non Generators	Environmental Protection Agency	03/15/2012	04/04/2012	05/15/2012
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/15/2012	04/04/2012	05/15/2012
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/15/2012	04/04/2012	05/15/2012
US	ROD	Records Of Decision	EPA	02/27/2012	03/14/2012	06/14/2012
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	03/07/2011	03/09/2011	05/02/2011
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2009	09/01/2011	01/10/2012
US	TSCA	Toxic Substances Control Act	EPA	12/31/2006	09/29/2010	12/02/2010
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	09/14/2010	10/07/2011	03/01/2012
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	06/25/2012	06/25/2012	09/18/2012
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	03/16/2012	06/12/2012	07/16/2012
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	12/30/2011	12/30/2011	01/10/2012
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	05/24/2012	06/05/2012	06/14/2012
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	09/01/2007	11/19/2008	03/30/2009
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	12/30/2011	12/30/2011	01/10/2012

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	08/20/2012	08/20/2012	09/20/2012
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2011	07/19/2012	08/28/2012
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	08/01/2012	08/09/2012	10/03/2012
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2011	07/23/2012	09/18/2012
VT	VT MANIFEST	Hazardous Waste Manifest Data	Department of Environmental Conservation	08/09/2012	08/15/2012	09/13/2012
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2011	07/19/2012	09/27/2012
US	Oil/Gas Pipelines	GeoData Digital Line Graphs from 1:100,000-Scale Maps	USGS			
US	Electric Power Lines	Electric Power Transmission Line Data	Rextag Strategies Corp.			
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
RI	Daycare Centers	Sensitive Receptor: Day Care Provider Listing	Department of Children, Youth & Families			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
RI	State Wetlands	Wetlands Classification Data	Dept. of Administration/Statewide Planning			
US	USGS 7.5' Topographic Map	Scanned Digital USGS 7.5' Topographic Map (DRG)	USGS			

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

DONEGAN, BAY SPRING AVE, BARRINGTON
90 BAY SPRING AVENUE
BARRINGTON, RI 02806

TARGET PROPERTY COORDINATES

Latitude (North):	41.7474 - 41° 44' 50.64"
Longitude (West):	71.3464 - 71° 20' 47.04"
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	304898.5
UTM Y (Meters):	4624178.5
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41071-F3 BRISTOL, RI MA
Most Recent Revision:	1975
North Map:	41071-G3 EAST PROVIDENCE, RI MA
Most Recent Revision:	1987

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

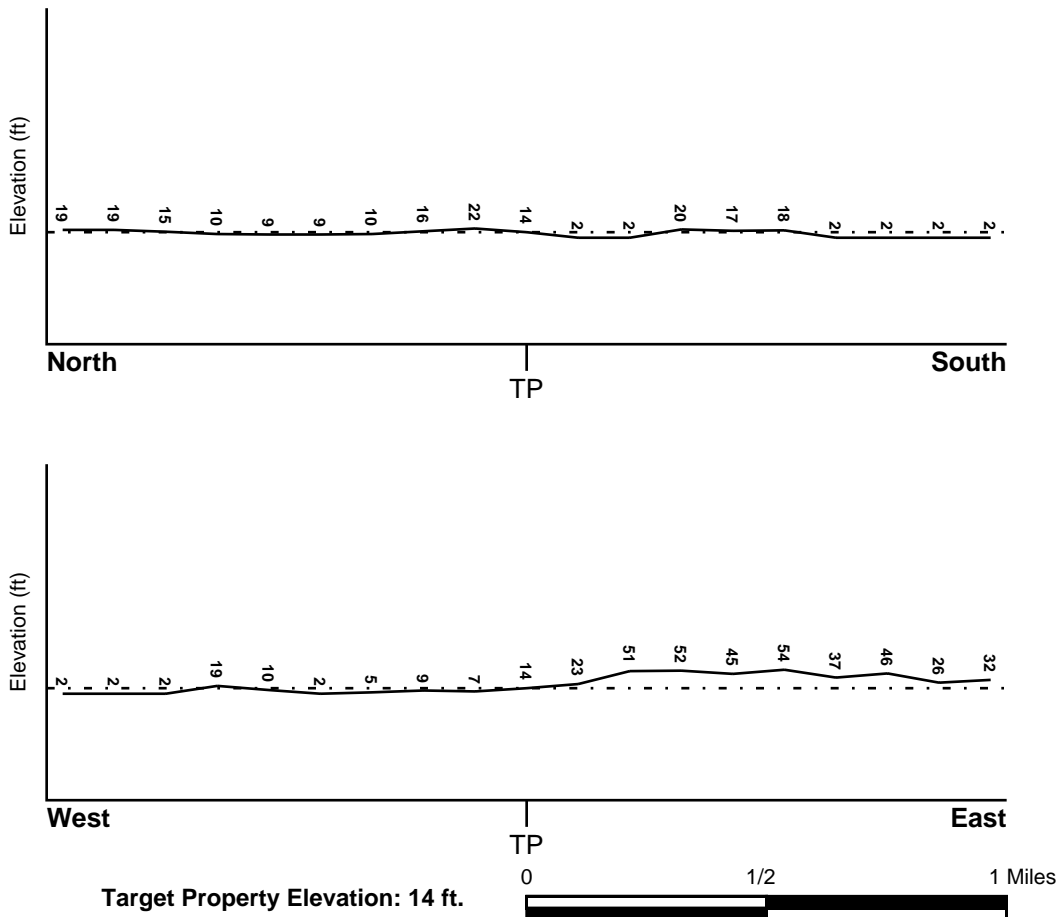
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> BRISTOL, RI	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	44001C - FEMA DFIRM Flood data
Additional Panels in search area:	44007C - FEMA DFIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> BRISTOL	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
---	---

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

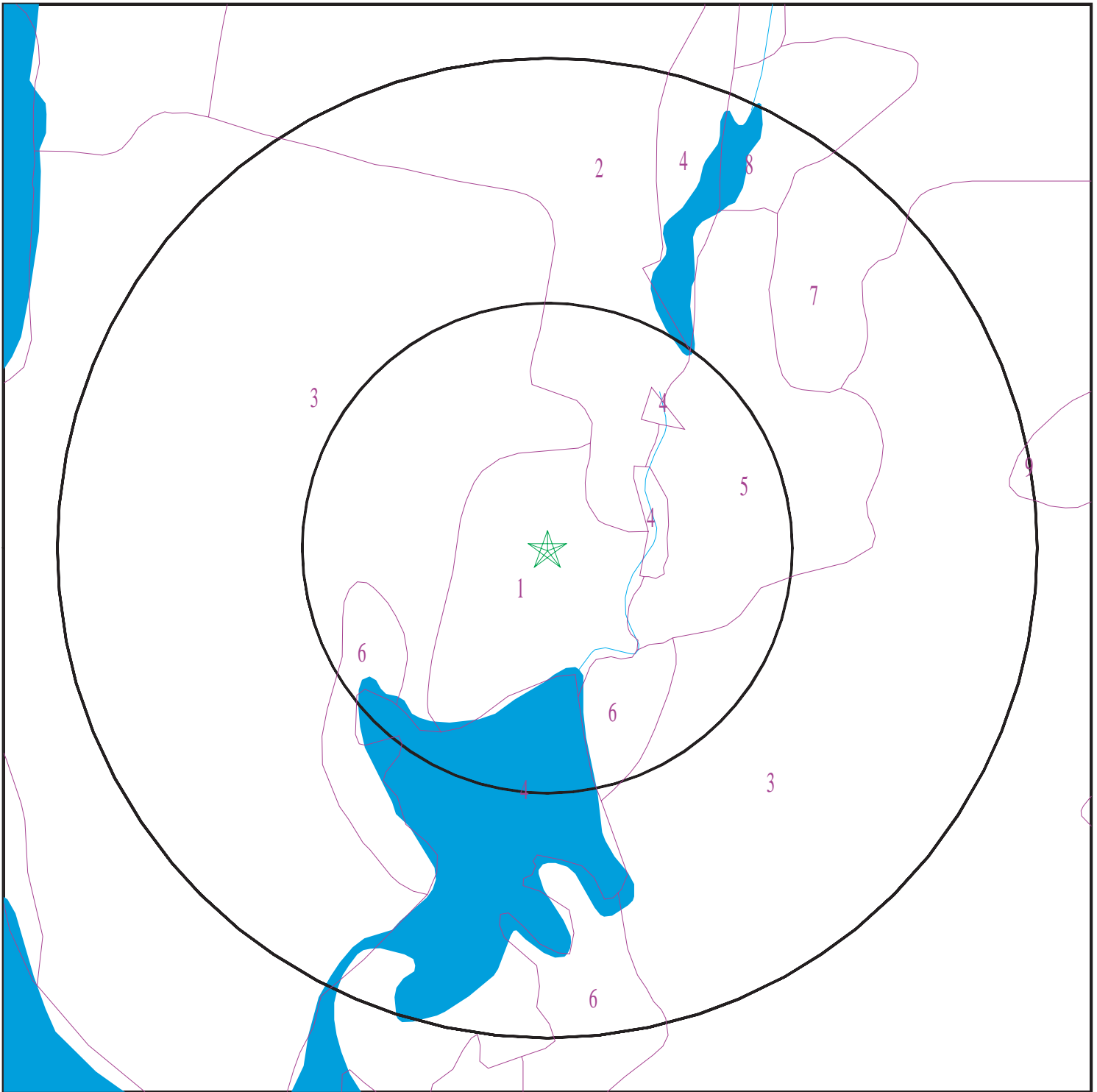
Era:	Paleozoic
System:	Pennsylvanian
Series:	Pennsylvanian
Code:	PP <i>(decoded above as Era, System & Series)</i>

GEOLOGIC AGE IDENTIFICATION

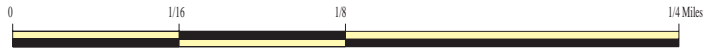
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3440007.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Donegan, Bay Spring Ave, Barrington
ADDRESS: 90 Bay Spring Avenue
Barrington RI 02806
LAT/LONG: 41.7474 / 71.3464

CLIENT: Resource Control Associates
CONTACT: Julie Freshman
INQUIRY #: 3440007.2s
DATE: October 24, 2012 12:14 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Hinckley

Soil Surface Texture:
Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches		Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6
2	9 inches	16 inches		Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6
3	16 inches	59 inches		Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6

Soil Map ID: 2

Soil Component Name: Windsor

Soil Surface Texture:
Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	1 inches		Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5
2	1 inches	27 inches		Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5
3	27 inches	64 inches		Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5

Soil Map ID: 3

Soil Component Name: Urban land

Soil Surface Texture:

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: Water

Soil Surface Texture:
Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 5

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 6

Soil Component Name: Matunuck

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches		Not reported	Not reported	Max: 705 Min: 141.14	Max: 7.8 Min: 5.1
2	11 inches	18 inches		Not reported	Not reported	Max: 705 Min: 141.14	Max: 7.8 Min: 5.1
3	18 inches	72 inches		Not reported	Not reported	Max: 705 Min: 141.14	Max: 7.8 Min: 5.1

Soil Map ID: 7

Soil Component Name: Birchwood

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches		Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5
2	9 inches	24 inches		Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	24 inches	59 inches		Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5

Soil Map ID: 8

Soil Component Name: Leicester

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 141.14 Min: 4.23	Max: 5.5 Min: 4.5
2	7 inches	25 inches		Not reported	Not reported	Max: 141.14 Min: 4.23	Max: 5.5 Min: 4.5
3	25 inches	64 inches		Not reported	Not reported	Max: 141.14 Min: 4.23	Max: 5.5 Min: 4.5

Soil Map ID: 9

Soil Component Name: Canton

Soil Surface Texture:
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches		Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
2	3 inches	22 inches		Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
3	22 inches	59 inches		Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS2071389	1/8 - 1/4 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID












WELL ID

LOCATION
FROM TP

No Wells Found

PHYSICAL SETTING SOURCE MAP - 3440007.2s



-  County Boundary
-  Major Roads
-  Contour Lines
-  Earthquake epicenter, Richter 5 or greater
-  Water Wells
-  Public Water Supply Wells
-  Cluster of Multiple Icons
-  Groundwater Flow Direction
-  Indeterminate Groundwater Flow at Location
-  Groundwater Flow Varies at Location
-  EPA Designated Sole Src. Aq.

SITE NAME: Donegan, Bay Spring Ave, Barrington
 ADDRESS: 90 Bay Spring Avenue
 Barrington RI 02806
 LAT/LONG: 41.7474 / 71.3464

CLIENT: Resource Control Associates
 CONTACT: Julie Freshman
 INQUIRY #: 3440007.2s
 DATE: October 24, 2012 12:14 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

1

NNW

1/8 - 1/4 Mile
Higher

[Click here for full text details](#)

FED USGS

USGS2071389

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: RI Radon

Radon Test Results

Zipcode	Num Tests	# < 4 pCi/L	4 to 20	# > 20 pCi/L	Maximum
02806	1366	1224	136	6	108

Federal EPA Radon Zone for BRISTOL County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 02806

Number of sites tested: 10

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.200 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.400 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Classification Data

Source: Dept. of Administration/Statewide Planning

Telephone: 401-222-6483

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Community and Non-Community Wells

Source: Department of Environmental Management

Telephone: 401-277-2234

Includes Community, Non-Transient Non-Community and Transient Non-Community.

EPA-Approved Sole Source Aquifers in Rhode Island

Source: EPA

Sole source aquifers are defined as an aquifer designated as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for the area and for which there are no reasonable alternative sources should the aquifer become contaminated.

OTHER STATE DATABASE INFORMATION

RADON

State Database: RI Radon

Source: Department of Health

Telephone: 401-222-2438

Radon Test Results

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX C

Supporting Documentation

6187

Group IV, a Rhode Island general partnership, whose general partners are Grace S. Goldberg, Leona Malkin, Mathew D. Shuster and Adele Zuckerman

~~to be conveyed to~~ Bay Spring Realty Company, a Rhode Island corporation, with a mailing address

of P.O. Box 2762, Providence, RI 02907 with QUIT-CLAIM COVENANTS
(Description, and Incumbrances, if any)

See attached Exhibit A.

The consideration for this conveyance is such that no stamps are required.

Witness its hand this 24th day of December 19 92
Group IV By Its Duly Authorized

General Partner
(PRINT OR TYPE: NAME OF GRANTEE)
Mathew D. Shuster
Mathew D. Shuster, General Partner
(PRINT OR TYPE: NAME OF GRANTEE)
In Providence on the 24th day of December 19 92
before me personally appeared Mathew D. Shuster, General Partner of Group IV

to me known and known by me to be the party executing the foregoing instrument, and he acknowledged said instrument, by him executed, to be his free act and deed.

Bay Spring Realty Company
P.O. Box 2762
(PRINT OR TYPE: NAME AND ADDRESS OF GRANTEE)
Providence, RI 02907
Edward D. Feldstein
Edward D. Feldstein
Notary Public

EXHIBIT A

PARCEL I: That certain tract or parcel of land with all the buildings and improvements thereon situated on the northerly side of Bay Spring Avenue, in the Town of Barrington, State of Rhode Island, bounded and described as follows:

Beginning at the point of intersection of the northerly line of Bay Spring Avenue with the easterly line of the railroad location of the New York, New Haven and Hartford Railroad Company at the southwesterly corner of the premises herein described, and running thence northerly bounding westerly on said railroad location a distance of eight hundred and 13/100 (800.13) feet, more or less, to land now or lately of Metropolitan Park Commission; thence turning an interior angle of $50^{\circ}15'30''$, more or less, and running easterly bounding northerly on said last named land and passing through a stone bound located thirty-two and 70/100 (32.70) feet easterly from the easterly line of said railroad location, a distance of two hundred forty-five and 84/100 (245.84) feet, more or less, to a stone bound; thence turning an interior angle of $160^{\circ}41'00''$, more or less, and running easterly bounding northerly on said last named land a distance of one hundred eighty-nine and 99/100 (189.99) feet, more or less, to a stone bound; thence turning an interior angle of $179^{\circ}00'30''$, more or less and running easterly bounding northerly still on said last named land a distance of one hundred seventy-three (173) feet, more or less, to land now or lately of the Town of Barrington; thence turning an interior angle of $91^{\circ}38'00''$, more or less, and running southerly bounding easterly on said last named land in part and in part on land now or lately of Barrington Lumber Company a distance of six hundred sixteen and 79/100 (616.79) feet, more or less, to Bay Spring Avenue; thence turning an interior angle of $88^{\circ}39'00''$, more or less and running westerly bounding southerly on said Bay Spring Avenue a distance of one hundred eleven and 50/100 (111.50) feet, more or less, to the point or place of beginning. Said tract contains by estimation 5.1 acres more or less.

PARCEL II: That certain tract or parcel of land with all the buildings and improvements thereon situated on the easterly side of Adams Avenue, in the Town of Barrington, State of Rhode Island, bounded and described as follows:

Beginning at a point in the easterly line of Adams Avenue at the southwesterly corner of land now or lately of the Town of Barrington (William Allin Estate Cemetery, so-called), and running thence easterly bounding northerly on said Town of Barrington land a distance of one hundred forty-eight (148) feet, more or less, to the southeasterly corner thereof and land now or lately of Albert P. Langlois et al; thence continuing easterly bounding northerly on and angling with said Langlois land by three lines measuring respectively thirty-one and 27/100 (31.27) feet, fifty-five and 89/100 (55.89) feet and sixty-four and 84/100 (64.84) feet to land now or lately of Charles C. Lahey et al; thence continuing easterly bounding northerly on said Lahey land a distance of sixty-six and 56/100 (66.56) feet; thence turning an interior angle of $274^{\circ}53'20''$ and running northerly bounding westerly on said Lahey land a distance of

one hundred forty-five (145) feet to Bay Spring Avenue; thence turning and running easterly bounding northerly on Bay Spring Avenue a distance of about one hundred eighty-six (186) feet to the railroad location of the New York, New Haven and Hartford Railroad Company; thence turning and running southerly bounding easterly on said railroad location about four hundred ninety-three (493) feet to land now or lately of H. Bickford et al; thence turning and running westerly bounding southerly on said Bickford land in part and in part on land now or lately of James E. Lathrop, Jr. et al about two hundred ninety-two (292) feet to Allins Cove, so-called; thence in a general westerly and southwesterly direction bounding generally southerly and southeasterly on said Allins Cove about seven hundred seventy (770) feet to Adams Avenue; thence turning and running northerly bounding westerly on said Adams Avenue about six hundred fifty-three (653) feet to the point or place of beginning, said tract contains by estimation 7.86 acres.

Said premises are conveyed subject to any and all rights of upper riparian owners with reference to stream crossing said tracts.

Said Parcel I is conveyed subject to the restriction that no manufacturing of plain or embossed filled goods especially made for book covers or window shades shall be done or allowed on said parcel, as set forth in the certain instrument made by Interloken Mills to International Rubber Company, dated January 16, 1917 and recorded in the office of the Town Clerk of the Town of Barrington in Book 25 at page 358.

Said premises are conveyed subject to a lease made by William H. Allin to George T. Baker, recorded in said office in Book 13 at page 538.

Said premises are conveyed subject to the provisions of an unrecorded agreement made by and between Drownville Water Co. and Annawamscott Mills, dated July 14, 1903.

Said premises are further conveyed subject to (1) any state of facts an accurate survey would disclose provided the same do not render the title unmarketable; (2) zoning ordinances or regulations provided the present use of the premises does not violate the same; (3) rights of others in and to any land lying in the bed of any streets or roads; and (4) rights of others public and private, in land below highest high tide.

RECEIVED FOR RECORD
Barrington, R.I. DEC 29 1992
at 2:38 o'clock P.M.
Arthur D. Davis
Town Clerk.

1200-500

PLAT	LOT	LOCATION
02	12	90 BAY SPRING AVENUE
RECORD	DESCRIPTION	
2	BARRINGTON COVE PLAT	

OWNER
GHG FOWLER, INC.
BARRINGTON COVE LIMITED PARTNERSHIP

ACCOUNT NO.	DATE RECORDED	STAMPS PURCHASED	RECORDED		COMMENTS
			BOOK	PAGE#	
07-2724-00	7/9/96	525,000	319	203-204	334,500 of bc was out of this plat & should be 154 by Barr Cove Plat. Added 6.28.96
02-1160-00	2/19/97	N.S.	339	114-116	

YEAR	LAND	BUILDINGS & IMPROVEMENTS	TOTAL VALUE	YEAR	LAND	BUILDINGS & IMPROVEMENTS	TOTAL VALUE		
1995	07	132,500	186,500	319,000	2005	01	361,500	2,970,200	3,331,700
1996	03	102,200	816,200	918,400					
1997	03	102,200	2,040,400	2,142,600					
1997	03	102,300	2,040,400	2,142,700					
2002	03	270,500	2,898,000	3,168,500					

COLLINS & ATKMAN CORP'N.

3 - BUS.

YEAR	RECORD LOT NO.	PLAT NO.	LOT NO.	LAND	BUILDINGS AND IMPROVEMENTS	TOTAL VALUE
1936		2	12	16 000	114 000	130 000
1937				16 000	114 000	130 000
1938				16 000	114 000	130 000
1939				16 000	114 000	130 000
1940				16 000	114 000	130 000
1941				16 000	114 000	130 000
1942				16 000	114 000	130 000
1943				16 000	114 000	130 000
1944				17 600	112 000	129 600
1945				17 600	112 000	129 600
1946				17 600	112 000	129 600
1947				22 000	145 000	167 000
1948				22 000	145 000	167 000
1949				25 000	150 000	175 000

Conference Mr. Eldridge, 1110 Maryland
of 1944 See letter.

Shake 4/1/47

See same to Taylor & Houghton

Haron 1951 (8.29 acres)

Bldg 139,100
Land 16,300

155,400 40% depreciation
taken off.

7.86 Acres

Barrington Enterprise Inc.

Paid 50,000 for entire plant
Feb 1 - 1960

P.S.P. Pd 90,000 8/16/60

Jan 28, 1960 Statement by

J. F. King (Collins & Lehman)

Land 25,000

Bldgs 150,000

(Taken under Collins & Lehman 1960)
(P.S.P. Realty - 1961)

PLAT 02 LOT 12
 348,081 1205003

RECORD 2
 DESCRIPTION Bay Spring Cove Place
 2 Bay Spring Cove Place

OWNER
~~BAN REALTY INC~~
~~Ralph Shuster Trust~~
 Group IV

ACCOUNT NO.	DATE RECORDED	STAMPS PURCHASED	RECORDED		OWNER
			BOOK	PAGE #	
02-0576-00					Bay Spring Realty Company
	9/16/86	N.S.	164	954-955	(2)
07-9160-00	9/16/86	N.S.	164	957-958	General Partners: Grace S. Goldberg, (2) Leona Malkin, Mathew Shuster & Adele Zuckerman
02-2073-50	12/29/92	N.S.	222	1151-1153	(2)

YEAR	LAND	BUILDINGS & IMPROVEMENTS	TOTAL VALUE	YEAR	LAND	BUILDINGS & IMPROVEMENTS	TOTAL VALUE
1967 07	18,900	102,300	121,200	1985 07	80,000	148,600	228,600
1968 07	18,900	65,750	84,650				
1972 07	18,900	80,000	98,900				
1974 07	18,850	80,000	98,850				
1976 07	49,700	104,900	154,600				

Lois 13 combined with this lot per Zoning Ordinance 135-26, 12/31/95

19,774

PLAT 02	LOT 93	LOCATION 19 Short Rd.
RECORD		DESCRIPTION

OWNER
 PHILLIPS, KENNETH A & NANCY (37)
 GILLET, JAMES D. & JOANN A. (TE)

ACCOUNT NO.	DATE RECORDED	STAMPS PURCHASED	RECORDED		COMMENTS
			BOOK	PAGE #	
16-6028-00					
07-3626-00	12/30/83	70,000	145	405	

YEAR	C L A S S	LAND	BUILDINGS & IMPROVEMENTS	TOTAL VALUE	YEAR	C L A S S	LAND	BUILDINGS & IMPROVEMENTS	TOTAL VALUE
1967	01	3,950	10,750	14,700	2005	01	334,700	192,600	527,300
1976	01	6,900	25,200	32,100					
1985	01	23,900	50,000	73,900					
1995	01	47,800	104,200	152,000					
2002	01	121,700	128,900	250,600					

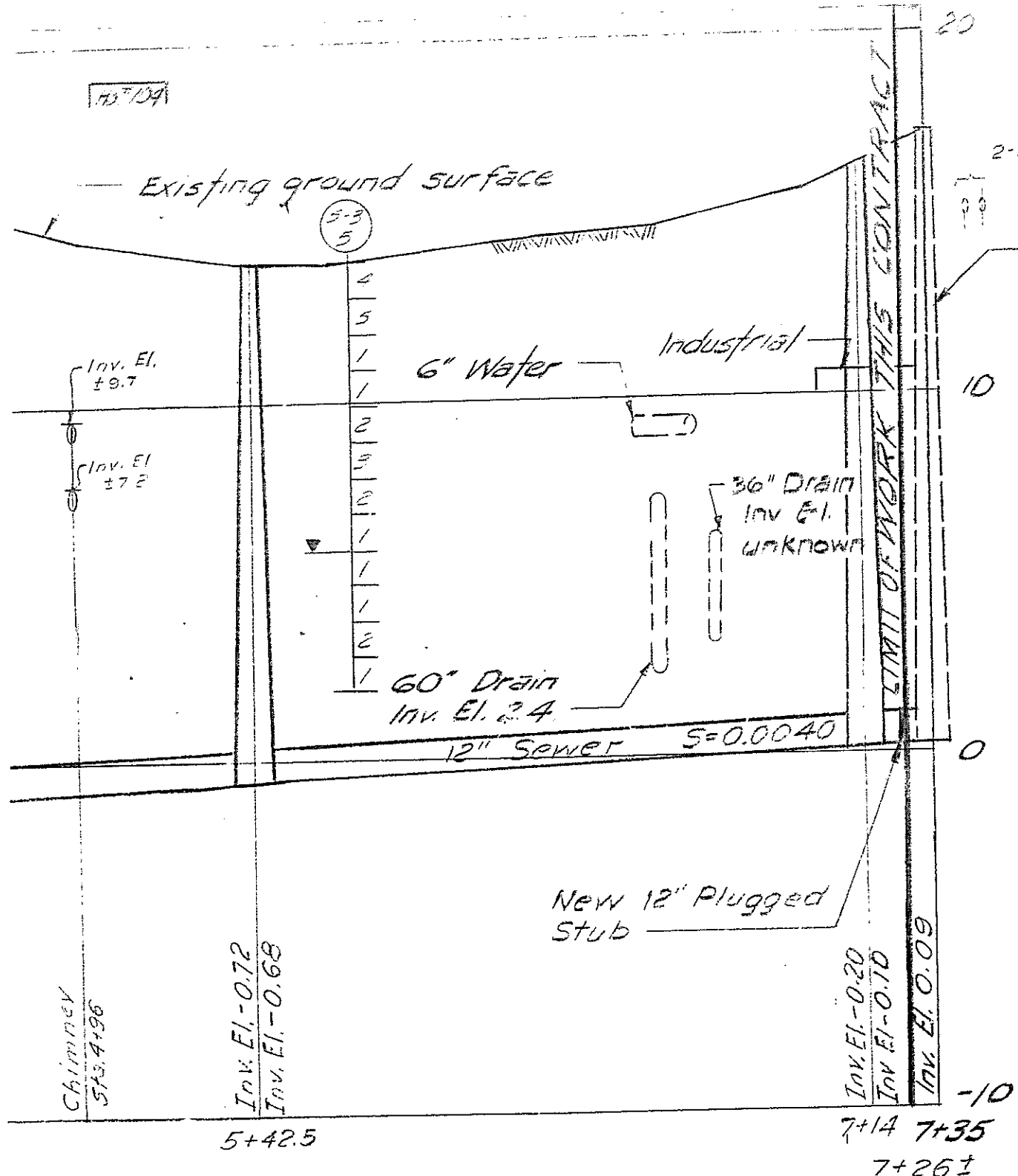
EDMUNDS, William W. & Margaret M.†
 CLEGG, Shirley S. (W)

Spring Street
 Shreve Road
 3-A

YEAR	RECORD LOT NO.	PLAT NO.	LOT NO.	LAND	BUILDINGS AND IMPROVEMENTS	TOTAL VALUE
1936		2	93	400	2,000	2,400
1937				400	2,000	2,400
1938				400	2,000	2,400
1939				400	2,000	2,400
1940				400	2,000	2,400
1941				400	2,000	2,400
1942				400	2,000	2,400
1943				600	2,000	2,600
1944				1,200	2,000	3,200
1945				1,200	2,000	3,200
1946				1,200	3,000	4,200
1947				1,500	3,750	5,250
1948				1,500	3,750	5,250
1949				1,800	4,500	6,300

1942 1943
 1944 1945
 1946 1947
 1948 1949

737109



A.) From Sta. 0+80 to Sta. 2+45 use Class 4000 RC pipe with screen and gravel to one foot above top of pipe

B.) From Sta. 2+45 to Sta. 5+42.5

- 1.) For A.C. pipe use Class 4000
- 2.) For V.C. pipe use Class 3300 and concrete arch from Sta. 2+45 to Sta. 4+15 and screen & gravel to one foot above top of pipe from Sta. 4+15 to Sta. 5+42.5

C.) From Sta. 5+40 to Sta. 7+30±


- 1.) For A.C. pipe use Class 4000
- 2.) For V.C. pipe use Class 3300 with screened gravel to one foot above top of pipe from Sta. 6+90 to Sta. 7+30±

RECORD DRAWING

2/78	Revised for record drawing.	
Date	Ch'k'd.	Revision
Designed by: D.E.D.		
Drawn by: I.D.B.		Date: February, 1975
Checked by: P.J.R./R.H.E.		Horiz: 1" = 40'
Approved by: D.A.P.		Scale: Vert: 1" = 4'

TOWN OF BARRINGTON, RHODE ISLAND
WASTEWATER FACILITIES

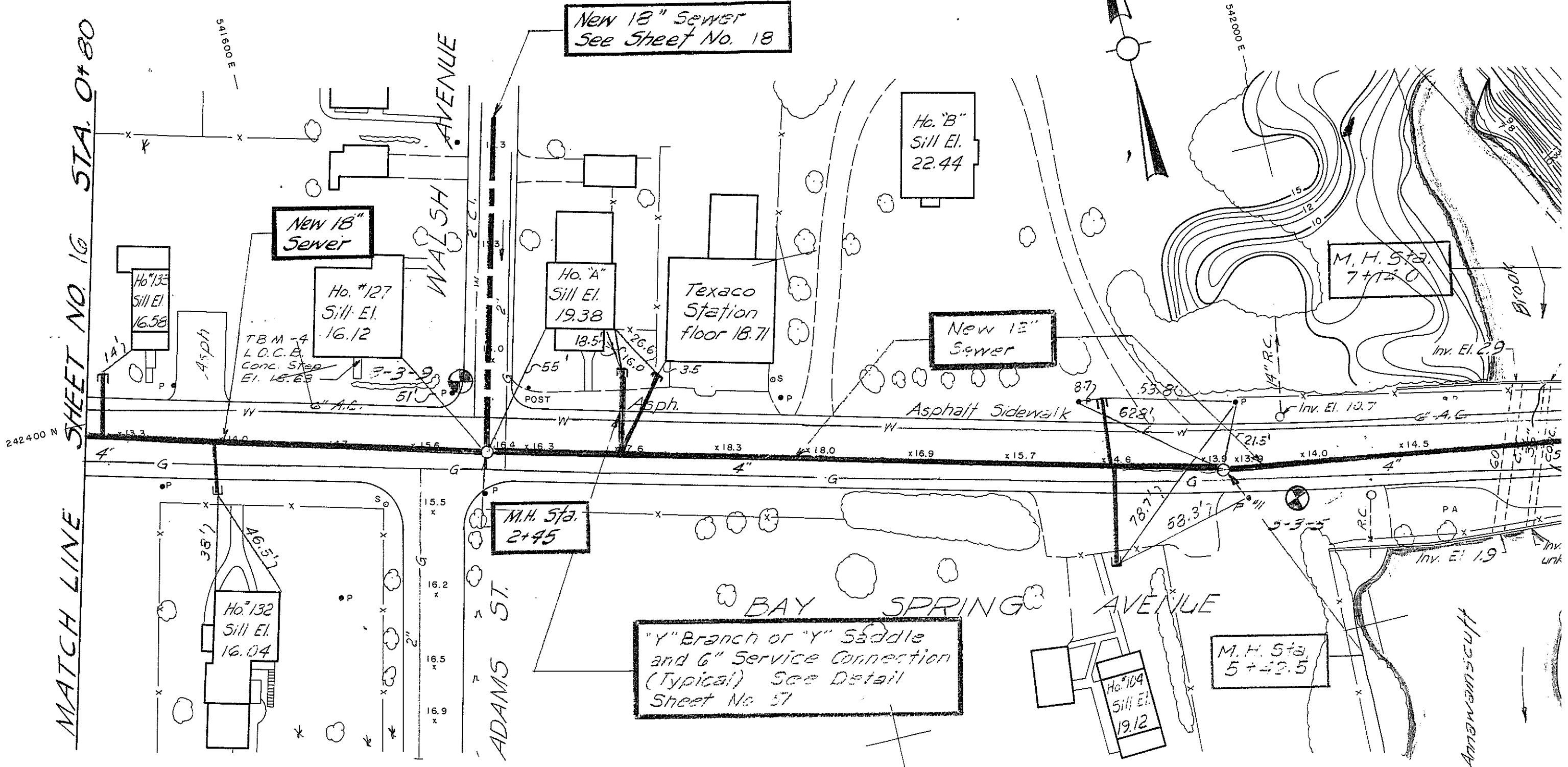
CONTRACT NO. 3
BAY SPRING - DROWN COVE AREA
BAY SPRING AVENUE
STA. 0+80 TO STA. 7+26±



CAMP DRESSER & MCKEE Inc.
Consulting Engineers
Boston, Mass.

SHEET NO.
17
333-2342

MATCH LINE SHEET NO. 16 STA. 0+80



New 18" Sewer
See Sheet No. 18

Ho. "B"
Sill El.
22.44

New 18" Sewer

Ho. #127
Sill El.
16.12

Ho. "A"
Sill El.
19.38

Texaco
Station
floor 18.71

New 12" Sewer

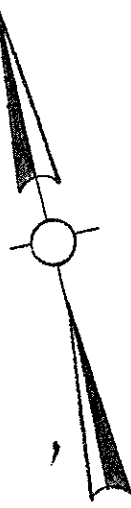
M.H. Sta.
7+12.0

M.H. Sta.
2+45

"Y" Branch or "Y" Saddle
and 6" Service Connection
(Typical) See Detail
Sheet No. 57

Ho. #104
Sill El.
19.12

M.H. Sta.
5+42.5



PLAN



OWNER DEFINED

Owner: Mike Pratt
DOB: [redacted]
License #: [redacted]
Co-Owner: ANTHONY DAVE
DOB: [redacted]
License #: [redacted]
Phone: [redacted]
Cell: [redacted]

Processed: [redacted]
ASR Map: [redacted]
Fact Dist: [redacted]
Reval Dist: [redacted]
Year: [redacted]
Land Reason: [redacted]
Bld Reason: [redacted]

PAAT ACCT. 413
Notes

SALES INFORMATION
Grantor: UNKNOWN
Legal Ref: 0-0
Type: 1/1/1900
V Tst Verif Assoc PCL Value
0/Yes No

TAX DISTRICT

BUILDING PERMITS

ACTIVITY INFORMATION

Sign: [redacted]

PROPERTY LOCATION
No All No Direction/Street/City
ADAMS AVENUE, Barrington

OWNERSHIP
Owner 1: BAY SPRING REALTY CO
Owner 2:
Owner 3:
Street 1: 909 NORTH MAIN STREET
Street 2:

Town/City: PROVIDENCE
State: RI
Postal: 02904
Own Occ: [redacted]
Type: [redacted]

PREVIOUS OWNER
Owner 1: BAY SPRING REALTY CO
Owner 2:
Street 1: 909 NORTH MAIN STREET
Street 2:
Town/City: PROVIDENCE
State: RI
Postal: 02904

NARRATIVE DESCRIPTION
This Parcel contains 242,800 SQ FT of land mainly classified as Comm/Ind Vc

OTHER ASSESSMENTS

PROPERTY FACTORS

LAND SECTION (First 7 lines only)

Total AC/H: 5.57392
Total SF/SM: 242800.00
Parcel LUC: 14
Comm/Ind Vc
Prime NB Desc: H
Prime NB Desc: H
Total: 306,109
Spt Credit
Total: 306,100

Total AC/H: 5.57392
Total SF/SM: 242800.00
Parcel LUC: 14
Comm/Ind Vc
Prime NB Desc: H
Prime NB Desc: H
Total: 306,109
Spt Credit
Total: 306,100

EXTERIOR INFORMATION

Type:	
Sty Ht:	
(Liv) Units:	Total:
Foundation:	
Frame:	
Prime Wall:	
Sec Wall:	%
Roof Struct:	
Roof Cover:	
Color:	
View / Desir	

GENERAL INFORMATION

Grade:	
Year Blt:	Eff Yr Blt:
Alt LUC:	Alt %:
Jurisdic:	Fact:
Const Mod:	
Lump Sum Adj:	

INTERIOR INFORMATION

Avg H/F/L:	
Prim Int Wal	
Sec Int Wal	%
Partition:	
Prim Floors:	
Sec Floors:	%
Bsmnt Flr:	
Bsmnt Gar:	
Electric:	
Insulation:	
Int vs Ext:	
Heat Fuel:	
Heat Type:	
# Heat Sys:	
% Heated:	% AC:
Solar HW:	Central Vac:
% Com Wal	% Sprinkled:

BATH FEATURES

Full Bath	Rating:
A Bath:	Rating:
3/4 Bath:	Rating:
A 3QBth	Rating:
1/2 Bath:	Rating:
A HBth:	Rating:
OthrFix:	Rating:

OTHER FEATURES

Kils:	Rating:
A Kils:	Rating:
Fpl:	Rating:
WSFlue:	Rating:

CONDO INFORMATION

Location:	
Total Units:	
Floor:	
% Own:	
Name:	

DEPRECIATION

Phys Cond:AV - Average	0.0%
Functional:	%
Economic:	%
Special:	%
Override:	%
Total:	0%

CALC SUMMARY

Basic \$ / SQ:	
Size Adj: 1.00000000	
Const Adj: 8.00000000	
Adj \$ / SQ:	
Other Features: 0	
Grade Factor:	
Neighborhood Inf: 1.00000000	
LUC Factor: 1.00	
Adj Total: 0	
Depreciation: 0	
Depreciated Total: 0	

COMMENTS

SKETCH

RESIDENTIAL GRID

1st Res Grid | Desc:	# Units
Level	FY LR DR D K FR RR BR FB HB L O
Other	
Upper	
Lvl 2	
Lvl 1	
Lower	
Totals	RMs: BRS: Baths: HB

REMODELING

Exterior:	No Unit	RMS	BRS	FL
Interior:				
Additions:				
Kitchen:				
Baths:				
Plumbing				
Electric:				
Heating:				
General:				
Totals				

RES BREAKDOWN

Exterior:	
Interior:	
Additions:	
Kitchen:	
Baths:	
Plumbing	
Electric:	
Heating:	
General:	
Totals	

SUB AREA

Code	Description	Area - SQ	Rate - AV	Undepr Value
------	-------------	-----------	-----------	--------------

SUB AREA DETAIL

Sub Area	% Usbl	% Descr	% Type	Qu	# Ten
----------	--------	---------	--------	----	-------

COMPARABLE SALES

Rate	Parcel ID	Typ	Date	Sale Price
------	-----------	-----	------	------------

PARCEL ID

WtAv\$/SQ:		AvRate	Ind.Val
Juris. Factor:		Val/Su Fin:	
Special Features: 0		Val/Su Net:	
Final Total: 0		Val/Su Sza	

SPEC FEATURES/YARD ITEMS

Code	Description	A	Y/S Qty	Size/Dim	Qual	Con	Year	Unit Price	D/S Dep	LUC	Fact	NB Fa	Appr Value	JCod	JFact	Juris. Value
------	-------------	---	---------	----------	------	-----	------	------------	---------	-----	------	-------	------------	------	-------	--------------

IMAGE



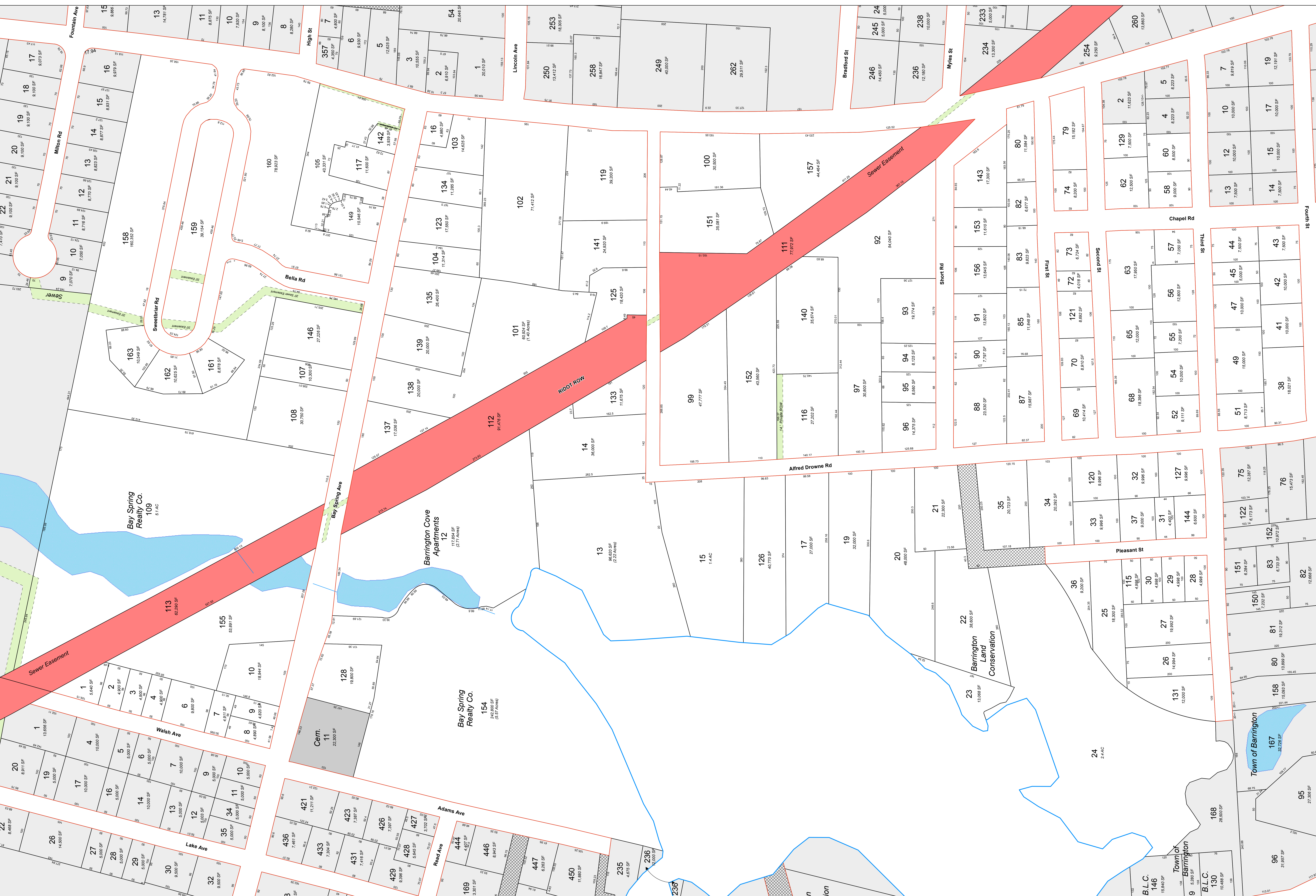
AssessPro Patriot Properties, Inc


More: N

Total Yard Items:

Total Special Features:

Total:





 Note: This map is for assessment purposes only and is not valid for legal description or conveyance.

 Mapping is current through December 31, 2011.

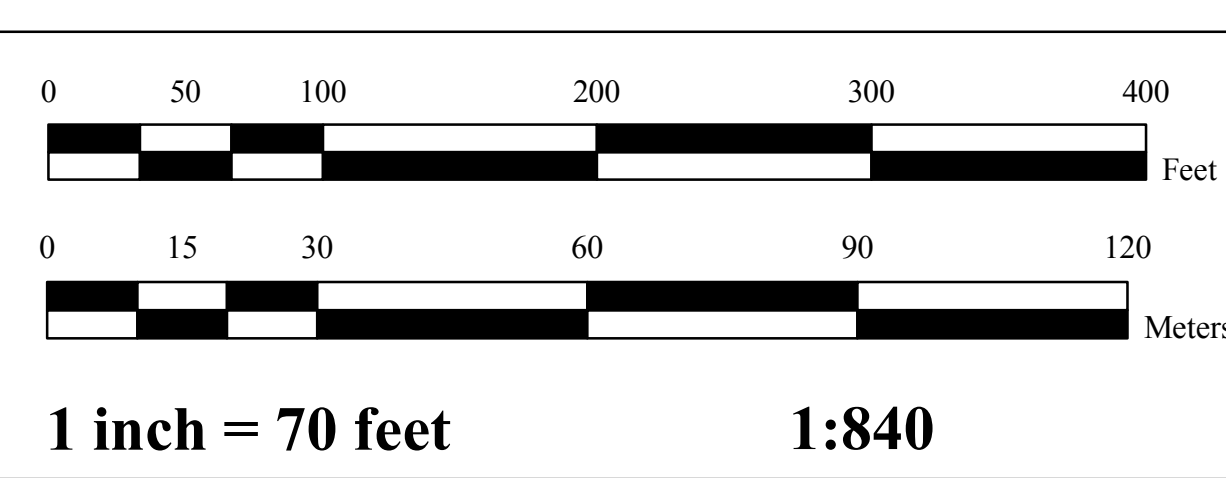
 Printed: 4/24/2012

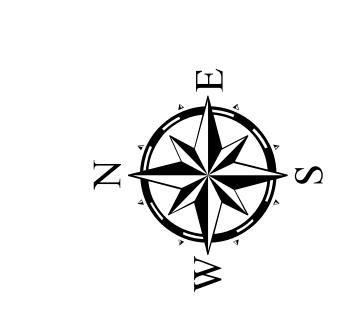
www.mainstreetgis.com

- Bike Path
- Median
- Coastline
- Not Coded
- Paper Street
- Right of Way
- Cemetery
- Parcel
- Stream
- Island
- Easements
- Water Body

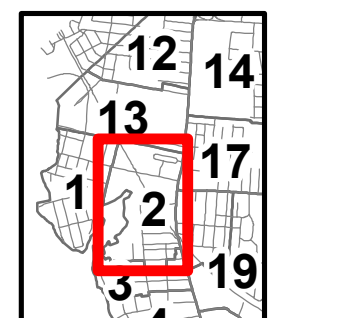


ASSESSOR'S MAP
TOWN OF BARRINGTON
Rhode Island
 MainStreetGIS, LLC
www.mainstreetgis.com









Plat Number

2

USER QUESTIONNAIRE

Date: October 31st 2012

Contact Name: ANDREW SWINSTER

Company and Position: Ralph Swinster Inc VP OF Real Estate

Telephone Number: 401-521-4477

In order to qualify for the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

(1) Have you reviewed recorded land title records for the site?

NO

(2) Environmental cleanup liens that are filed or recorded against the site (40CFR 312.25)

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

NO

(3) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40CFR 312.26)

Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

NO

(4) Specialized knowledge or experience of the person seeking to qualify for the LLP (40CFR 312.28)

As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO

(5) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40CFR 312.29)

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Price is low b/c it may have problems

(6) Commonly known or reasonably ascertainable information about the property (40CFR 312.30)

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

(a) Do you know the past uses of the property?

FAKE LEATHER MANUFACTURER

(b) Do you know of specific chemicals that are present or once were present at the property?

NO

(c) Do you know of spills or other chemical releases that have taken place at the property?

NO

(d) Do you know of any environmental cleanups that have taken place at the property?

NO

(7) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40CFR 312.31)

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

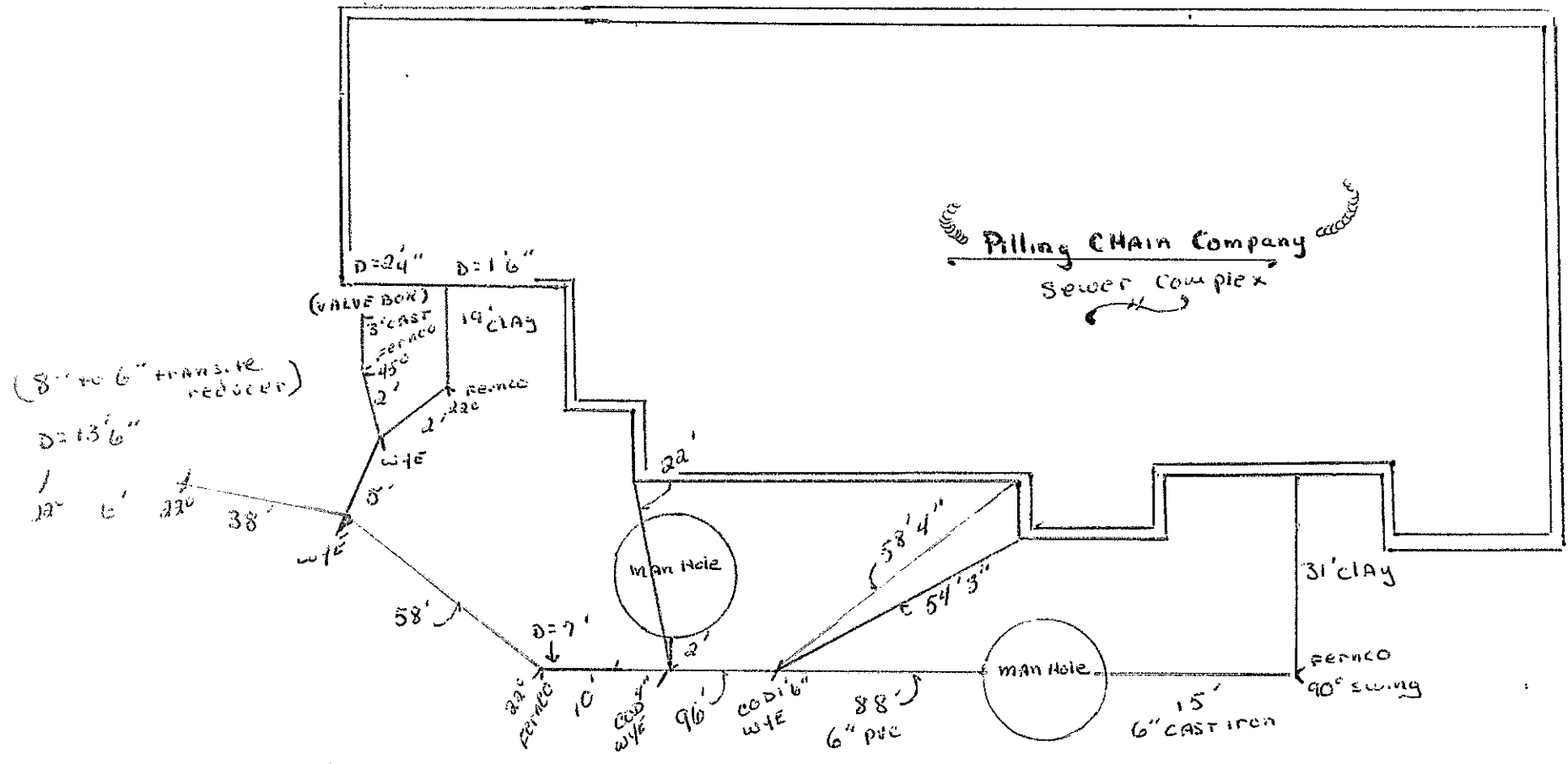
NO

(8) Reason for conducting this Phase I Environmental Site Assessment:

3rd Party is conducting the study

User's Signature [Signature]

Date 10/31/12



Pilling Chain Company
Sewer Complex

(8" to 6" transite reducer)
D=13 1/2"

7-15-82
6" pvc
6" cast iron
to be connected
to man holes
and valve box
ferroc cemented
2, 15 p.m.
J. Pannone ST.

Donegan, Bay Spring Ave, Barrington

90 Bay Spring Avenue
Barrington, RI 02806

Inquiry Number: 3440007.4
October 25, 2012

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2008	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory
1990	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory
1985	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

90 Bay Spring Avenue
Barrington, RI 02806

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<u>90-115 Bay Spring Avenue</u>		
2008	pg A1	Cole Criss-Cross Directory
2008	pg A2	Cole Criss-Cross Directory
2000	pg A3	Cole Criss-Cross Directory
1995	pg A4	Cole Criss-Cross Directory
1990	pg A5	Cole Criss-Cross Directory
1985	pg A6	Cole Criss-Cross Directory

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<u>7 and 57 Adams Avenue</u>		
2008	pg. A7	Cole Criss-Cross Directory
2000	pg. A8	Cole Criss-Cross Directory
1995	pg. A9	Cole Criss-Cross Directory
1990	pg. A10	Cole Criss-Cross Directory
1985	pg. A11	Cole Criss-Cross Directory

City Directory Images

90-115 Bay Spring Avenue

2008

39 RESIDENCE

● BAY SPRING AVE

CT 301.00 9 - 218 \$A
 CT 302.00 E 148 - 148 \$A
 9 - 218 02806

➔ -WASHINGTON RD INTS

9★Razzys Inc. 96 401.246.1681
 12★Marion United Methodist Church 93
 15★B Joseph Thomas Do 90 401.246.1010
 16

★Jay Steenhuisen And Associates 04 401.246.2110
 B★Rodolfo Sequeira 03 NP
 20◇ Jane G Gower 92 401.246.1176
 ◇ Ronald W Gower 92 401.246.1176
 23 Anita C Dimatteo 87 NP
 Joseph A Dimatteo 87 NP
 28 Arman Gazeryan 05 401.246.0519
 Veronica A Gazeryan 05 401.246.0519
 34★David E Butera. 06 401.245.9577
 40★Performance Products Lic 77 401.246.0600
 ★Royal Co Inc J. + 401.246.0600
 65★Barrington Lumber & Supplis 98 401.246.0552
 ★Classic Kitchens & Countertops Inc
 01 401.237.3501
 ★Home Glow Enterprises... 91 401.246.0552

90

Shirley B Adams. 99 401.246.0031
 Geraldine F Angell 02 401.246.0177
 202 Al I Archambault. 97 401.246.0074
 202 Emily A Archambault 97 401.246.0074
 Nancy A Ash 02 401.246.1271
 107 Charlotte W Baker 06 401.246.0614
 124 Andrea Baldomar 00 401.246.2711
 124 Denise W Baldomar 00 401.246.2711

OFC★Barrington Cove Apts 97 401.246.2409

Patricia A Belanger. 02 401.246.3341
 ◇ Mary Armstron Bennett. 02 401.246.0046
 ★E Bernier + 401.246.1062
 Bertha Bestwick 02 401.246.7824
 122◇ Shirley M Boule 04 401.246.0081
 ★E Breault + 401.246.0209
 111 Catherine E Brown 02 401.246.1531
 Richard D Cole 02 401.246.0889
 Beverly M Colvin 03 401.246.2535
 228 Elizabeth K Cousineau 02 401.246.0921
 204 Edwin E Davies Jr. 02 401.246.0379
 ★S Davis 05 401.246.2464
 117◇ Dorothy M Dennis. 01 401.246.7845
 117◇ Joy D Dennis 01 401.246.7845
 205 Angelina Disanto 04 401.245.8753
 108 Eileen A Fanella 98 401.246.0409
 108 Richard E Fanella 98 401.246.0409
 106 Thelma R Furtado 97 401.246.7851
 226 R A Grout 01 401.246.7854
 224 J Hedg-Peth 94 401.246.0431
 224 June A Hedgpth 94 401.246.0431
 ★S Horn 05 401.246.2499
 ★S Horri 05 401.246.2499
 Frank Horton 02 401.246.1241
 Jonathan A Jacobs. 02 401.246.1248
 126 Carol Johnson 03 401.246.2492
 126 Mark Johnson 03 401.246.2492
 203 F Karger 01 401.246.1844
 214 Hutson W Kirchner 05 401.246.2621
 223 Emeric H Klein 06 401.246.1216
 225 Pamela Lacy Lacy 05 401.246.1938
 222◇ Joan H Lansing 02 401.246.2641
 118 Ida Lawrence 90 401.246.7897
 110 Dennis Lund 02 401.246.1847
 110 Georgina M Lund 02 401.246.1847
 215 Carmena D Maddock 01 401.246.1532
 201 Dorothy T McDaniel 03 401.246.0130
 ★M Meyer 05 401.246.2709
 231 Rosella Mollo 05 401.246.0757
 Gertrude R Neubauer 02 401.246.0203
 218 Thelma A Oberg 95 401.246.1597
 ★B Plaisted + 401.246.1282
 130 Margrett M Plunkett 04 401.246.0290
 130 Raymon F Plunkett 04 401.246.0290
 103 Gladys M Purcell 05 401.246.0530
 219 Carol A Riegler 02 401.246.2144

© Copyright information on this page m
 CT - Census Tract \$ASB, Etc. - Census 1

90-115 Bay Spring Avenue

2008

				COL	
	221	Margo Rueb	94	401.246.3338	
	209	Marilyn M Saute	05	401.246.0393	
		Charles Saint Sthilaire	02	401.246.1896	
		Janet A Sthilaire	02	401.246.1896	
SA	219	K Trinkley	02	401.246.2144	
06	207	Angela R Verdi	05	401.246.0769	
	-EAST BAY BIKE PATH INTS				
58	104	Jim S Botnick-Bates	01	NP	
58		Kimberly Ann Botnick-Bates	01	NP	
	105	Dawn M Anderson	99	NP	
		David W Cook	99	NP	
13	107	Carolyn Cook	82	401.289.0135	
54		David W Cook	82	401.289.0135	
85	-ADAMS AVE INTS				
	115	★ Bay Spring Service	88	401.246.2700	
	119			NP	
82	127	Joseph E Defeo Jr	01	NP	
82	131	Michael Huff	+	401.289.0644	
	132	Nancy J Vincent	99	401.246.0322	
	133	Betty N Briden	03	401.751.2378	
13		Betty Briden Leighton	03	401.751.2378	
13	136	Karen E Lembo	00	401.246.0061	
03	137	Edward Carl Tufarolo	68	401.246.1061	
03		Nancy A Tufarolo	68	401.246.1061	
56	145	Christopher B Stevens	81	401.246.1391	
56		Theresa R Stevens	81	401.246.2262	
57	147				
81		♣ Gloria Alexander	05	401.246.0150	
81	319	◇ B Allen	00	401.246.0809	
	319	◇ Virginia B Allen	00	401.246.0809	
62	133	Richard Lowe Ballou	02	401.246.2410	
62	2	Barbara Jane Barnard	07	401.246.1206	
54		♣ D Battles	+	NP	
54		♣ Ruth W Beech	05	401.246.1040	
76		♣ A Brzozowy	04	401.246.2842	
76	138	Ethel L Burt	04	401.246.2846	
28	241	Frank Byrnes	05	401.246.0771	
28		♣ Frances Chatterton	04	401.246.2330	
		♣ E M Chenette	06	401.246.0891	
59	116	Paula Jeanne Ciotti	00	NP	
59		♣ A Cocce	03	401.246.2990	
13	341	Charles L Coleman	04	401.246.0062	
13	328	John E Connors Jr	04	401.246.2879	
33		♣ Daniel B Converse	05	401.246.1994	
		♣ Teresa L Converse	05	401.246.1994	
	336	Albert B Coop Jr	99	NP	
	324	◇ Elinor H Deal	01	401.246.2901	
04	228	Dorothy A Deangelis	06	NP	
95		♣ Nicholas Desisto	05	401.246.0150	
95	227	Ethel R Devaney	05	401.433.3085	
95		♣ Dr Julio Disanto	05	401.246.0268	
	318	Frances W Drew	04	401.246.1188	
	318	Francis Drew Drew	04	401.246.1188	
	325	◇ Edward F Dudzik	06	401.246.0161	
		♣ Joseph W Egan Jr	05	401.246.0654	
		♣ W Egan Jr	05	401.246.0654	
SA		♣ Helen Engles	05	401.246.0025	

90-115 Bay Spring Avenue

2000

	★ Huestis Mach Corp	.99	401-246-1351
	64★ Kids Quarters	.96	401-246-0100
	65★ Brrngtn Supplies	.	401-246-0550
	★ Village Kitchens	.99	401-246-2400
	68★ Huestis Mach Corp	-	401-253-7350
	- LAKE AVE INTS		
	- WASHINGTON RD INTS		
11	90 S Adams	.98	401-246-0031
6	Geraldine Angell	.99	401-246-0177
13	Al Archambault	.98	401-246-0074
15	N A Ash	.98	401-246-1271
14	Patricia Belanger	.98	401-246-3341
16	M A Bennett	.98	401-246-0046
14	Bertha Bestwick	.98	401-246-7824
11	S J Boudreau	.98	401-246-3324
10	L Bouffard	.98	401-246-0338
76	Paul Bourdon	.99	401-246-0608
11	C Brant	.99	401-246-0447
10	C E Brown	.99	401-246-1531
17	Frank Bymes	.98	401-246-0771
	Donald A Cady	.98	401-246-7896
	H Ciotti	.98	401-246-1269
06	Richard D Cole	.98	401-246-0889
	E Cousineau	.98	401-246-0921
	M J Crawley	.98	401-246-7852
6	L Davies	.99	401-246-0379
	Alfred Dennis	-	401-246-7845
	T Furtado	.98	401-246-7851
39	L D Garnwell	.98	401-246-7831
	L Gayton	.98	401-246-3323
01	William H Greene	.98	401-246-0282
63	R A Grout	.98	401-246-7854
62	V Hellmann	.98	401-246-0525
19	Catherine Holleran	.98	401-246-0780
25	A Homung	.98	401-246-7804
65	Frank Horton	.98	401-246-1241
46	Raymond R Hyatt	.98	401-246-7821
69	J Jacobs	.98	401-246-1248
	E Johnson	.98	401-246-0402
	Martin Kottler	.98	401-246-1894
	Ida Lawrence	.98	401-246-7897
	C J Leaf	.98	401-246-7847
	Vincent R Legge	.99	401-246-0378
	C Martin	-	401-246-0629
	E R McInnis	.98	401-246-7885
	Mark Melechinsky	.98	401-246-7826
	Saint A Messenger	.98	401-246-0984
	G R Neubauer	.98	401-246-0203
	Alfred Ogden Jr	.98	401-246-1206
	John F Pimentel	.98	401-246-0821
72	Alice Riley	.98	401-246-7802
34	Margo Rueb	.98	401-246-3338
5	L Rylands	.98	401-246-2200
	Janet Stansbury	.98	401-246-07810
	★ Barrington CV Apt 97 401-246-2409		
06	104 James Gardner	.95	401-246-1720
	107 S Cook	.82	401-246-0712
	Susan Thomas	-	401-246-0868
6	115★ Bay Spring Service 401-246-2700		
	119 John P Wayland Sr	.98	401-246-7815
24	127 S Phillips	.99	401-246-2588
	- ADAMS AVE INTS		
32	- WALSH AVE INTS		
	131 John Tufarolo	.68	401-246-0987
54	132 Robert Chartier	.73	401-246-0484
22	N Vincent	-	401-246-0322
85	133 Betty L Briden	.99	401-246-0145
	136 Emil Christ	.97	401-246-2029
47	137 Edward C Tufarolo	.79	401-246-1061
82	145 C Stevens	.94	401-246-2262
95	Chris Stevens	.81	401-246-1391
	146★ A M Construction	.98	401-246-0754
30	147★ Bay Spring Village	.98	401-246-2500
	★ Delta Mech Const	.98	401-246-0694
23	162 Harriet Downey	.99	401-246-1562

90-115 Bay Spring Avenue

1995

82 Beatrice W Miller 84 245-1

86 S M Lahey 83 • 245-

87 Roland A Derosier 69 245-2755

88 NP

32 RESIDENCE

● **BAY SPRING AVE** 02806

Begins 187 Washington Road Runs
Westerly Ends At Water Front
1- 299 CT 301 \$A..F 6

● WEEDEN MAP LOC 5A 73

9★ Sjr Service Center □ 246-2001

12★ Barmon Inc 85 245-0622

★ Dmf Software Inc □ 246-1476

15

G J Giarrusso 91 246-1568

A J G Thomas □ 246-1941

★ Dr B J Thomas 77 246-1010

16 M Vandingstee □ 246-0327

20 Ronald W Gower 93 • 246-1176

★ Allmite Termite 93 246-1770

23 Jos A Dimatteo 88 246-1234

28 Ellis F Carlson 82 246-1055

Ellis F Carlson 90 246-1386

★ Viking Industries 87 246-1855

31 Apartments

2 Peter Lombardo 92 246-1063

2 Jorgina F Resendes 93 246-1063

32★ Barrngtn Dance Ctr 92 246-1757

★ Tumblin Tots □ ⊙ 246-1757

34★ Mighty Dist NW Eng 86 246-1670

40★ J Royal Co Inc 246-0600

50 NP

60★ Martek Corp 86 246-1900

★ NE Harbour 91 246-1909

65★ Barrngtn Lumber Co 246-0550

68 NP

85★ Belmont Wire Specl 84 246-0502

90★ Hills Tire&Auto 89 246-1460

★ Rainbow System - 246-0500

107 S Cook 82 246-0712

115★ Bay Spg Svc Garage 246-1077

— WALSH AV BEGINS

R EXCEPT AS AUTHORIZED BY THE PUBLISHER.

◆ — No Solicitation ● — Verified Homeowner

90-115 Bay Spring Avenue

1990

88		NP	
31 RESIDENCE			
● BAY SPRING AVE		02806	
Begins 187 Washington Road Runs			
Westerly Ends At Water Front			
1- 299 CT 301		\$B..F 6	
9★	Hills Tire&Auto	84	246-1460
12★	Barmon Inc	85	245-0622
15★	Dr B J Thomas	77	246-1010
	A Roger Cruz	84	246-1590
16	Alfred J Lachance	86	246-1805
20	M P Thompson	88	246-0409
23	Jos A Dimatteo	88	246-0275
	★ Eveready Elect Inc	88	246-1234
28	Ellis F Carlson	82	246-1055
	★ Viking Industries	87	246-1855
30★	STM	87	246-1544
31		NP	
32★	Rcy Designs	88	246-1829
34★	Mighty Dist Sys	86	246-1670
40★	J Royal Co Inc		246-0600
50	D Appleton	82	246-1657
60★	Martek Corp	86	246-1900
62★			
	★ Fine Line Hlth Clb	88	246-0481
64★	Electric Beach	88	246-0308
65★	Barrington Lumber		246-0550
68		NP	
85★	Belmont Wire Spec	84	246-0502
	★ Group IV	87	246-0043
90★	Cast Products Corp	82	246-0100
	★ Pilling Chain Co		246-0100
107	S Cook	82	246-0712
115★	Bay Spring Service		246-1077
- WALSH AV BEGINS			
119	John P Wayland Sr	77	246-1114
127	S Richardson	86	246-0882
132	Robert Chartier	73	246-0484
133	Edw C Tufarolo	79	246-1061
137	John Tufarolo Jr	68	246-0987
145	Chris Stevens	81	246-1391
162	LCdr J G Paroline	-	246-1562
- LAKE AV INTS			
164		NP	
166★	Bridging The Gap	84	246-1370
	★ The Flying Dutchmn	88	245-0122
	★ Rainbow System	88	246-0500
170	Albertus H Trevail	82	246-1737
176	Albert Cardoza	77	246-1033
178	Thomas Joynes	84	246-0598
	Robt Ring	87	246-1348
182★	Tfrls Unsx Sln	74	246-0922
- NARRAGANSETT AV INTS			
195	John Bruibacher	84	246-0583
200	John Vergelli	76	246-0084
201	Richard T Smith	68	246-1398

90-115 Bay Spring Avenue

1985

27 RESIDENCE		1 BUSINESS	
● BAY SPRING AVE		02806	
Begins 187			
Washington Road			
Runs Westerly Ends			
At Water Front			
1- 240 TZ 301		\$A..	
020230			
9★	Raymond K Sadlier	246	- 1460
15★	Dr B J Thomas	246	- 1010
	A Roger Cruz	246	- 1590
16	. . . . .	NP	
20★	Bar Power Mowers	246	- 0470
23	Joanne E Lemay	246	- 0508
	★Lomas Chip Lawn Sv	246	- 0476
28	Ellis F Carlson	82	246 - 1055
31	. . . . .	NP	
40★	J Royal Co Inc	246	- 0600
50★	Appleton's Repair	246	- 1657
60★	Bar Upholstery Co	246	- 0000
	★Caserta Auto	246	- 1670
	★Mighty Distributng	246	- 1670
62★	Lynn Hosford Studo	246	- 0039
64★	Barrngton Plumb	246	- 1300
65★	Barrington Lumber	246	- 0550
68	. . . . .	NP	
85★	Belmont Wire Specl	246	- 0502
	★East Bay Wire	246	- 1912
90★	Cast Products Corp	246	- 0100
	★Karew	246	- 1500
	★Pilling Chain Co	246	- 0100
107	S Cook	82	246 - 0712
	Joan Cottle	83	246 - 1580
	L B Fredette	82	246 - 1431
115★	Bay Spring Service	246	- 1077
119	John P Wayland Sr	77	246 - 1114
127	Mark Baldwin	80	246 - 0624
132	Robert Chartier	73	246 - 0484
	Mary R Kirby	-	246 - 0972
133	E Carl Tufarolo	79	246 - 1061
137	John Tufarolo Jr	68	246 - 0987
145	Chris Stevens	81	246 - 1391
162	A S Derrah	82	246 - 1172
164	Thomas J Aguiar	83	246 - 1090
166★	Magnetic Seal Corp	246	- 1000
170	Albertus H Trevail	82	246 - 1737
176	Albert Cardoza	77	246 - 1033
178	. . . . .	NP	
182★	Tufarolo's Unisex	246	- 0922
195	. . . . .	NP	
200	John Vergelli	76	246 - 0084
201	Richard T Smith	68	246 - 1398
203	Norman Kee	65	246 - 1774
207	Doug Kee	75	246 - 1384
212	Ronald N Bourque	80	246 - 0098
218	George Bestwick	73	246 - 1978
NO #	★R I Lace Wks Inc	246	- 1550
NO #	★Rilace Works	722	- 9150
28 RESIDENCE		22 BUSINESS	
● BEACH RD		02806	
Begins At 57			
Chachapacasset			
Road Ends Watson			
Avenue			
1- 99 TZ 304		\$A..	
020240			
1	Howard Boland	78	247 - 0139

7 and 57 Adams Avenue

2000

71	E D Baum	.50	401-245-0524
74	★ Ross Builders Inc	-	401-245-2732
75	M Falvey	.99	401-247-1168
79	James T Seifert Jr	70	401-247-1430
83	87	NP	
	19	RESIDENCE	1 BUSINESS

● **ADAMS AVE** 02806

Begins 117 Bay Spring Avenue
 Ends At Base of Latham Avenue

1- 98 CT 301

\$A..F 6

● UNIVERSAL ATLAS R MAP LOC

● 11E 18-19

7	Robert L Cost	.71	401-246-0412
11	Gary D Roberts	.84	401-246-1151
41	Al Girard	.72	401-246-0071
57	O Stangelo	☒	401-246-3390
59	Hans Spangenberg	☒	401-246-1637
	5	RESIDENCE	

● **ADAMS POINT RD** 02806

Begins 63 Ferry Lane Runs
 Southerly Ends Adams Point

1- 198 CT 304

\$A..F 6

0 37- 49 CT 301

\$A..F 6

0 51- 199 CT 304

\$A..F 6

● UNIVERSAL ATLAS R MAP LOC

● 7,8PQ 18-19

5		NP	
11	Emile Couture	.75	401-245-5067
17	Clyde E Irons	.82	401-245-1384
18	John Harker	.91	401-245-3555
19	Robley K Matthews	66	401-245-9128
24	Richard Powers	.98	401-247-4811
29	D Dimare	.98	401-247-7714
	J Miller	.98	401-247-7714
20	Paul Rodman	.98	401-245-8654

7 and 57 Adams Avenue

1995

71	Jay Clifford		245-1477
75	Irene Renaud	.84 ●	247-0345
79	James T Seifert Jr	.70	247-1430
83		NP	
87	Paul Sampson	☐	245-7535
17	RESIDENCE	1	BUSINESS
<hr/>			
●	ADAMS AVE		02806
	Begins 117 Bay Spring Avenue		
	Ends At Base of Latham Avenue		
	1- 99 CT 301		\$A..F 6
●	WEEDEN MAP LOC 5A 73		
7	Robert L Cost	.71	246-0412
11	Gary D Roberts	.84 ●	246-1151
-	READ AV ENDS		
41	B Girard	.72	246-0071
57	Stephen J Mansi	.89 ●	246-1206
59	Gretchen E Ketz	.92	246-1641
	5 RESIDENCE		
<hr/>			
●	ADAMS POINT RD		02806
	Begins 63 Ferry Lane Runs		
	Southerly Ends Adams Point		
	1- 199 CT 304		\$A..F 6
●	WEEDEN MAP LOC 9G 75		
5	Geo H Montgomery	.63	245-3735
11	Emile Couture	.75	245-5067
-	BRIARFIELD RD BEGINS		

7 and 57 Adams Avenue

1990

48	★ Ross Builders	. . . . .	88	247-2513
62	Mark R Burassa	. . . . .	88	247-0040
67	Robert D Siegel	. . . . .	88	247-2737
70	M Ferreira	. . . . .	87	245-6296
71	Paul H Dennis	. . . . .	78	247-0345
75	Irene Renaud	. . . . .	84	247-1430
79	James T Seifert Jr	. . . . .	70	245-3415
83	Armando Corvi	. . . . .	69	245-1378
87	J Sampson	. . . . .	85	
	17 RESIDENCE		1	BUSINESS

ADAMS AVE

02806

Begins 117 Bay Spring Avenue
Ends At Base of Latham Avenue

1- 99 CT 301

\$B..F 6

7	Robert L Cost	. . . . .	71	246-0412
	Karen Munroe	. . . . .	-	246-1773
11	Gary D Roberts	84	246-1151

READ AV ENDS

41	B Girard	72	246-0071
57	Stephen J Mansi	⌘	246-1206

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⌘ — New Listing To The Di

7 and 57 Adams Avenue

1985

Westerly End
Dead End

1- 124 TZ 303

\$A..

019910

5	Daniel S Austin	.. . . . . -	247 - 0901
6	James J Owen	.. . . . . 81	245 - 2380
15		.. . . . . NP	
20	Raymond Martin	.. . . . . 77	245 - 9123
32	Donald L Chionchio	.. . . . . 69	245 - 2556
62		.. . . . . NP	
67	Keith Correia	.. . . . . □	247 - 0040
70	Manuel Ferreira	.. . . . . -	247 - 1042
71	Paul H Dennis	.. . . . . 78	245 - 6296
75	Irene Renaud	.. . . . . □	247 - 0345
79	James T Seifert Jr	.. . . . . 70	245 - 1145
83	Armando Corvi	.. . . . . 69	245 - 3415

12 RESIDENCE

● ADAMS AVE

02806

Begins 117 Bay
Spring Avenue Ends
At Base of Latham
Avenue

1- 99 TZ 301

\$A..

019920

7	Robert L Cost	.. . . . . 71	246 - 0412
11	Gary D Roberts	.. . . . . □	246 - 1151
41	Albert P Girard 72	246 - 0071
57	Gayle Rhodes 78	246 - 1835
59	Donald L Medici □	246 - 0715

5 RESIDENCE

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H — New Listing to the Directory — — New Listing To T



Donegan, Bay Spring Ave, Barrington

90 Bay Spring Avenue

Barrington, RI 02806

Inquiry Number: 3440007.3

October 26, 2012

Certified Sanborn® Map Report

Certified Sanborn® Map Report

10/26/12

Site Name:

Donegan, Bay Spring Ave,
90 Bay Spring Avenue
Barrington, RI 02806

Client Name:

Resource Control Associates
474 Broadway
Pawtucket, RI 02860



EDR Inquiry # 3440007.3

Contact: Julie Freshman

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Certified Sanborn Results:

Site Name: Donegan, Bay Spring Ave, Barrington
Address: 90 Bay Spring Avenue
City, State, Zip: Barrington, RI 02806
Cross Street:
P.O. # 7131/Task 1
Project: 7131
Certification # 69BE-4F3A-89BA



Sanborn® Library search results
Certification # 69BE-4F3A-89BA

Maps Provided:

1961
1950
1928
1921

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1961 Source Sheets



Volume 1, Sheet 13

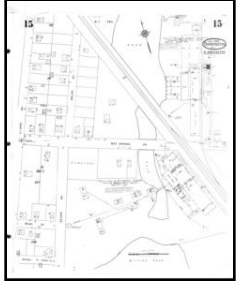


Volume 1, Sheet 15

1950 Source Sheets



Volume 1, Sheet 13



Volume 1, Sheet 15

1928 Source Sheets



Volume 1, Sheet 15



Volume 1, Sheet 13

1921 Source Sheets



Volume 1, Sheet 9



Volume 1, Sheet 7

1961 Certified Sanborn Map

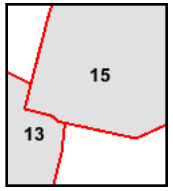
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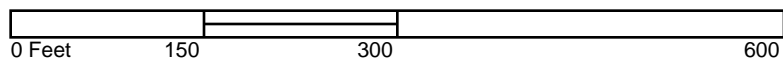
Site Name: Donegan, Bay Spring Ave, Barrington
 Address: 90 Bay Spring Avenue
 City, ST, ZIP: Barrington RI 02806
 Client: Resource Control Associates
 EDR Inquiry: 3440007.3
 Order Date: 10/26/2012 11:45:02 AM
 Certification #: 69BE-4F3A-89BA



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 13
 Volume 1, Sheet 15



1950 Certified Sanborn Map



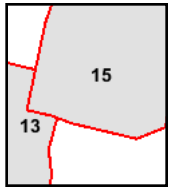
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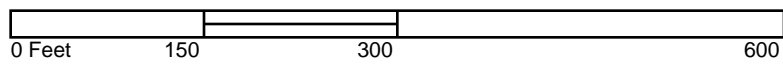
Site Name: Donegan, Bay Spring Ave, Barrington
 Address: 90 Bay Spring Avenue
 City, ST, ZIP: Barrington RI 02806
 Client: Resource Control Associates
 EDR Inquiry: 3440007.3
 Order Date: 10/26/2012 11:45:02 AM
 Certification #: 69BE-4F3A-89BA
 Copyright: 1950

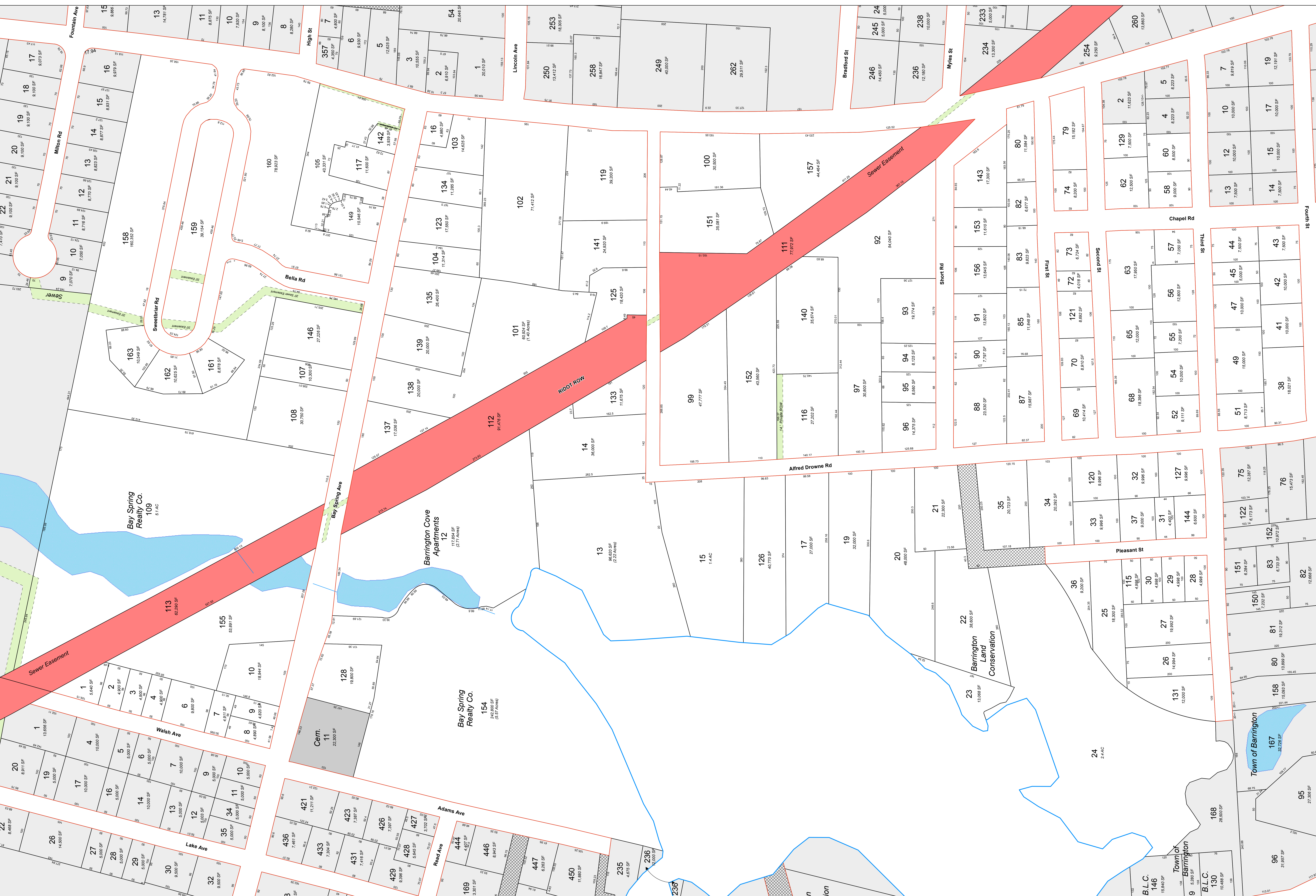


This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 13
 Volume 1, Sheet 15



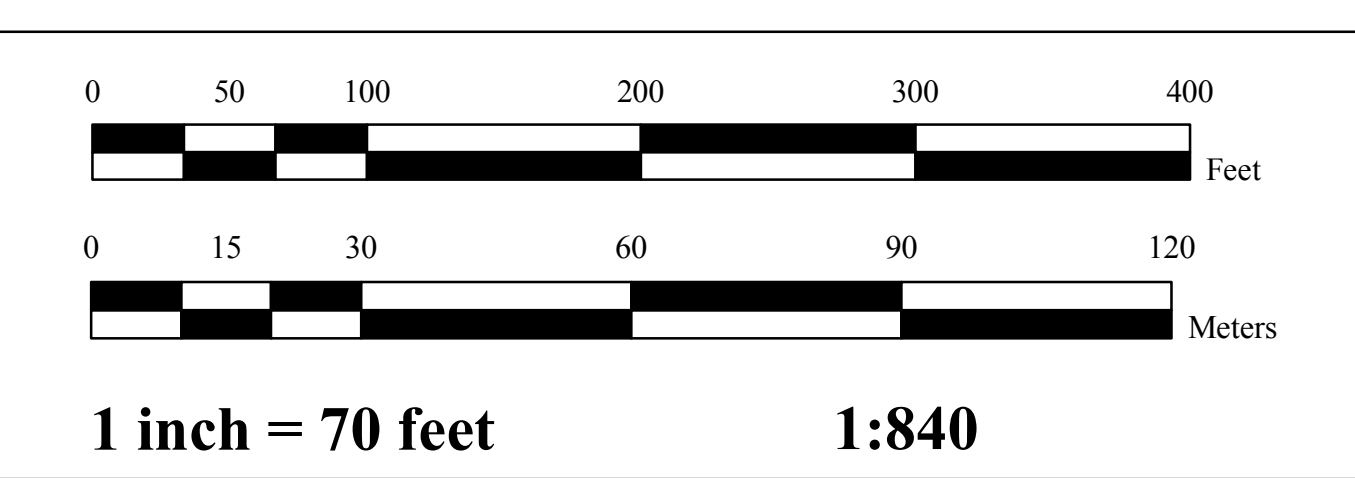


MainStreetGIS
 www.mainstreetgis.com
 Note: This map is for assessment purposes only and is not valid for legal description or conveyance.
 Mapping is current through December 31, 2011.
 Printed: 4/24/2012

- Bike Path
- Median
- Coastline
- Not Coded
- Paper Street
- Right of Way
- Cemetery
- Parcel
- Stream
- Island
- Easements
- Water Body



ASSESSOR'S MAP
TOWN OF BARRINGTON
 Rhode Island
 MainStreetGIS, LLC
 www.mainstreetgis.com



Plat Number

2

Notification for Underground Storage Tanks

FORM APPROVED
OMB NO. 2050-0049
APPROVAL EXPIRES 6-30-88

I.D. Number

Date Received

STATE USE ONLY
RECEIVED
2843
SEP 1 1988

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;

4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;

5. surface impoundments, pits, ponds, or lagoons;

6. storm water or waste water collection systems;

7. flow-through process tanks;

8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;

9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached

1

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

Ray Spring Service Garage, Inc.

Street Address

115 Ray Spring Avenue

County

Bristol

City

State

ZIP Code

Barrington, R.I.

028010

Area Code Phone Number

(401) 246-1077

Type of Owner (Mark all that apply)

Current

State or Local Gov't

Private or Corporate

Former

Federal Gov't (GSA facility I.D. no. _____)

Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here)

Facility Name or Company Site Identifier, as applicable

Street Address or State Road, as applicable

County

City (nearest)

State

ZIP Code

Indicate number of tanks at this location

2

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here)

Job Title

President/Owner

Area Code

Phone Number

(401) 246-1077

IV. TYPE OF NOTIFICATION

Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative

Richard Charpentier, Resident

Signature

Richard Charpentier

Date Signed

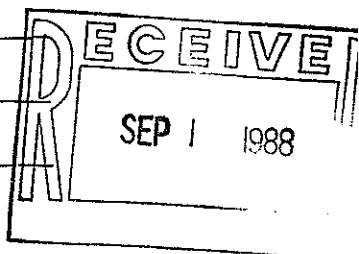
9-12-88

CONTINUE ON REVERSE SIDE

VI. DESCRIPTIVE OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No. 2	Tank No.	Tank No.	Tank No.	
1. Status of Tank (Mark all that apply <input checked="" type="checkbox"/>) Currently in Use Temporarily Out of Use Permanently Out of Use Brought into Use after 5/8/86	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. Estimated Age (Years)	15	15				
3. Estimated Total Capacity (Gallons)	3000	3000				
4. Material of Construction (Mark one <input checked="" type="checkbox"/>) Steel Concrete Fiberglass Reinforced Plastic Unknown Other, Please Specify	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
5. Internal Protection (Mark all that apply <input checked="" type="checkbox"/>) Cathodic Protection Interior Lining (e.g., epoxy resins) None Unknown Other, Please Specify	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
6. External Protection (Mark all that apply <input checked="" type="checkbox"/>) Cathodic Protection Painted (e.g., asphaltic) Fiberglass Reinforced Plastic Coated None Unknown Other, Please Specify	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
7. Piping (Mark all that apply <input checked="" type="checkbox"/>) Bare Steel Galvanized Steel Fiberglass Reinforced Plastic Cathodically Protected Unknown Other, Please Specify	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input checked="" type="checkbox"/>) a. Empty b. Petroleum Diesel Kerosene Gasoline (including alcohol blends) Used Oil Other, Please Specify c. Hazardous Substance Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No. Mark box <input checked="" type="checkbox"/> if tank stores a mixture of substances d. Unknown	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
9. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr) b. Estimated quantity of substance remaining (gal.) c. Mark box <input checked="" type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	/	/	/	/	/	

Facility Name Ray Spring Service Garage, Inc.
Street Address 115 Ray Spring Avenue
City/Town Barrington
Registration # 2843



I certify under penalty of law that all information previously submitted to the Director was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME: Richard Charpentier
TITLE: President
DATE: 8-22-88

Please return this form, which applies to underground storage tank information/registration, to:

Department of Environmental Management
Division of Groundwater & Freshwater Wetlands
291 Promenade Street
Providence, Rhode Island 02908
(401) 277-2234

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF GROUNDWATER & FRESHWATER LANDS
 291 PROMENADE STREET
 PROVIDENCE, RHODE ISLAND 02908
 (401) 277-2234

APPLICATION

PLEASE FILL OUT
 APPLICATION COMPLETELY

For Underground Storage Facilities

RECEIVED
 OFFICE USE ONLY
 REGISTRATION NO. 1088 2843
 PURPOSE _____
 TOWN CODE 01 SUB- _____ SECTION _____

FACILITY NAME Bay Spring Service Garage, Inc.
 ADDRESS 115 Bay Spring Avenue
 CITY/TOWN Barrington ZIP 02806

(1) Year Operation Commenced 1981

(2) Is this a NEW or EXISTING FACILITY? E

IF A NEW FACILITY, a set of detailed engineering plans and project specifications including operation and maintenance requirements is required with this application (See Section 7,b,1).

IF EXISTING FACILITY, a site plan of all equipment locations is required with this application (See Section 7,b,2).

(3) Dispensing System Island (Suction) Remote (Sump) Island and Remote Other I

IF REMOTE SYSTEM ANSWER 3A AND 3B A) Line Leak Detection System Installed? Yes No U

B) Does the base of the dispensing system have a shear valve? Yes No U

(4) Are recovery wells installed around the facility? Yes No N

(5) Are monitoring wells installed around the facility? Yes No N

(6) Does a drinking water supply exist within 1,000 feet of the facility? Yes No N

IF YES SPECIFY Public Well Private Surface Source
 Private Well Public Surface Source
 Public Supply Unknown
 Water Body (name) _____

(7) Have any leaks or spills occurred at this facility? Yes No N
 (Please attach report/description of incident)

APPLICATION SUBMITTED BY Owner Operator 1

OWNER OR DESIGNATED OFFICIAL
 (Complete Only If Different From Applicant)

APPLICANT NAME Richard Charpentier

OWNER NAME _____

ADDRESS 115 Bay Spring Avenue
Barrington, RI. 02806

ADDRESS _____

TELEPHONE NO. 246-1077

PROVIDE INFORMATION FOR EACH TANK -- NUMBER TANKS SEQUENTIALLY (e.g., 1,2,3,4)

T E S T E D	TANK NO.	DATE OF INSTALLATION (YEAR/MONTH)	PRESENT STATUS OF TANK	VOLUME (Gallons)	TANK CONSTRUCTION MATERIAL	PIPING CONSTRUCTION MATERIAL	TANK CORROSION PROTECTION	STORED MATERIAL	SPILL CONTAINMENT? (Yes or No)	
	1	7/73	R	3000	01 Steel	01 Steel	Yes	Empty	98	
	2	7/73	R	3000	01 Steel	01 Steel	Yes	Empty	98	
			(See closure for tanks)							
								Gas (see closure)		
								125		
								05		

UL STANDARD USED FOR TANKS See table, # 99442

UL STANDARD USED FOR PIPING 7514H

PRECISION TESTING

Has a precision test been performed at this facility? Yes No

(Enclose results if available).

If YES A) Date of Most Recent Test / / Yr. Mo. Day

B) Where were tests performed? Tanks Lines Both

C) Type of Precision Test Kent Moore Petro Tite Hunter Leak Lokator

D) Please indicate which tanks were tested by placing a check mark in the TESTED column for each tank tested.

COMPLETE THIS SECTION FOR CLOSED TANKS

Type of Tank Closure Permanent Temporary

Date Taken Out of Service 7/5/73 Yr. Mo. Day

Present Condition of Tank(s)

Filled

Removed/No Leaks

Removed/Leaking Occurred

Date Filled or Removed / / Yr. Mo. Day

COMMENTS

These underground tanks have been completely empty of all hazardous materials (gasoline) since 1975. I bought this establishment in 1981, solely for the purpose of mechanical repair. I would like to save tanks can get a better price

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
291 PROMENADE STREET
PROVIDENCE, RHODE ISLAND 02908
(401) 277-2234

PERMANANT CLOSURE APPLICATION FOR UNDERGROUND STORAGE FACILITIES

INSTRUCTIONS

1. Section 15 of the Department of Environmental Management's Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials requires that this application be submitted to the above address at least ten (10) days prior to the closure of an underground storage tank, and that the Department be notified at least 72 hours in advance of the date and time of closure to permit inspection.
 2. All applicable information must be provided to the Department in order for this application to be considered valid and for the Department to issue a certificate of closure. Action taken to close an underground storage tank without meeting the requirements of #1 (above) and the permanent closure procedures listed in the regulations, shall be considered in violation of the regulations and subject to fines and penalties referenced therein.
 3. Any questions concerning this application or closure procedures should be directed to the Department at the address and phone number listed above.
 4. To be in compliance with local requirements, the appropriate city or town offices (e.g. fire department) should be contacted.
- A. Date of application: 4-3-89
- B. Date of tank closure: Same
- C. Approximate time of tank closure: 11:AM
- D. Underground Storage Facility Registration Number: Bay Spring Services
(if applicable) Garage
- E. Facility Name: Bay Spring Services Garage
Street Address: 115 Bay Spring Ave.
City/Town: Bay, RI
- F. Tank Owner's Name: Same
Street Address: _____
City/Town and State: _____

ii. If the tank is to be reused, specify:

--purpose of use _____
--name and address of intended user _____

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNED BY: Richard A. Chappertis Press,
TITLE: _____
ADDRESS: _____
TELEPHONE: _____

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF GROUNDWATER AND FRESHWATER WETLANDS
 291 Promenade Street
 Providence, Rhode Island 02908
 (401) 277-2234

FACILITY ID 15,673

2843
 No Tanks

CERTIFICATE OF CLOSURE
 FOR UNDERGROUND STORAGE FACILITIES

In compliance with Chapter 46-12 of the Rhode Island General Laws, as amended, and the Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials,

Bay Spring Service Inc

owner/operator of an underground storage facility located at

*115 Bay Spring Ave
 Burr*

is issued this Certificate of Closure indicating that the storage tanks described below have been taken out of service permanently, in compliance with the Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials.

TANK ID NUMBER	VOLUME	STORED MATERIAL	DATE LAST USED	STATUS OF TANK F=Filled R=Removed
<i>001</i> <i>002</i> <i>2 tanks</i>	<i>3000</i>	<i>gasoline</i>	<i>1/1/73</i>	<i>R</i>
	<i>3000</i>	<i>gasoline</i>	<i>1/1/73</i>	<i>R</i>
			<i>1/1</i>	
			<i>1/1</i>	
			<i>1/1</i>	

Signed this *4th* day of *April*, 19*89*

Reviewed by: *Peter Sella*

Approved: *F. S. Merri*

Chief, Division of Groundwater and
 Freshwater Wetlands
 Department of Environmental Management

CLOSE1 _____
 CLOSE2 _____
 CLOSE2 _____

2843



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Environmental Management
DIVISION OF GROUNDWATER AND
FRESHWATER WETLANDS
291 Promenade Street
Providence, R.I. 02908 - 5767

03 February 1989

CERTIFIED MAIL

*Richard called 2/8/89
Will be closing 2 abandoned UST's
in the spring - April.*

closed 4.4.89

Richard Charpentier
Bay Spring Service Garage, Inc.
115 Bay Spring Avenue
Barrington, RI 02806

RE: Underground Tank Closure

Dear Mr. Charpentier:

We have received your application for underground storage facilities which states that there are abandoned underground storage tanks located on your property. Please be advised that all underground storage tanks that are permanently out-of-service and which at any time contained gasoline, fuel oil (No. 1 and 2), diesel oil, waste oil, JP Fuels, gasohol or any hazardous material must be closed in accordance with the Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials.

If you have not already applied for a certificate of closure you are currently in violation of the Regulations. You are hereby requested to contact Mary Toti at 277-2234 within 10 days of receipt of this letter to initiate closure procedures. Failure to notify this office will leave the Department no other alternative but to initiate enforcement action.

Sincerely,

Saverio Mancieri, Sanitary Engineer
Division of Groundwater and Freshwater Wetlands
Department of Environmental Management

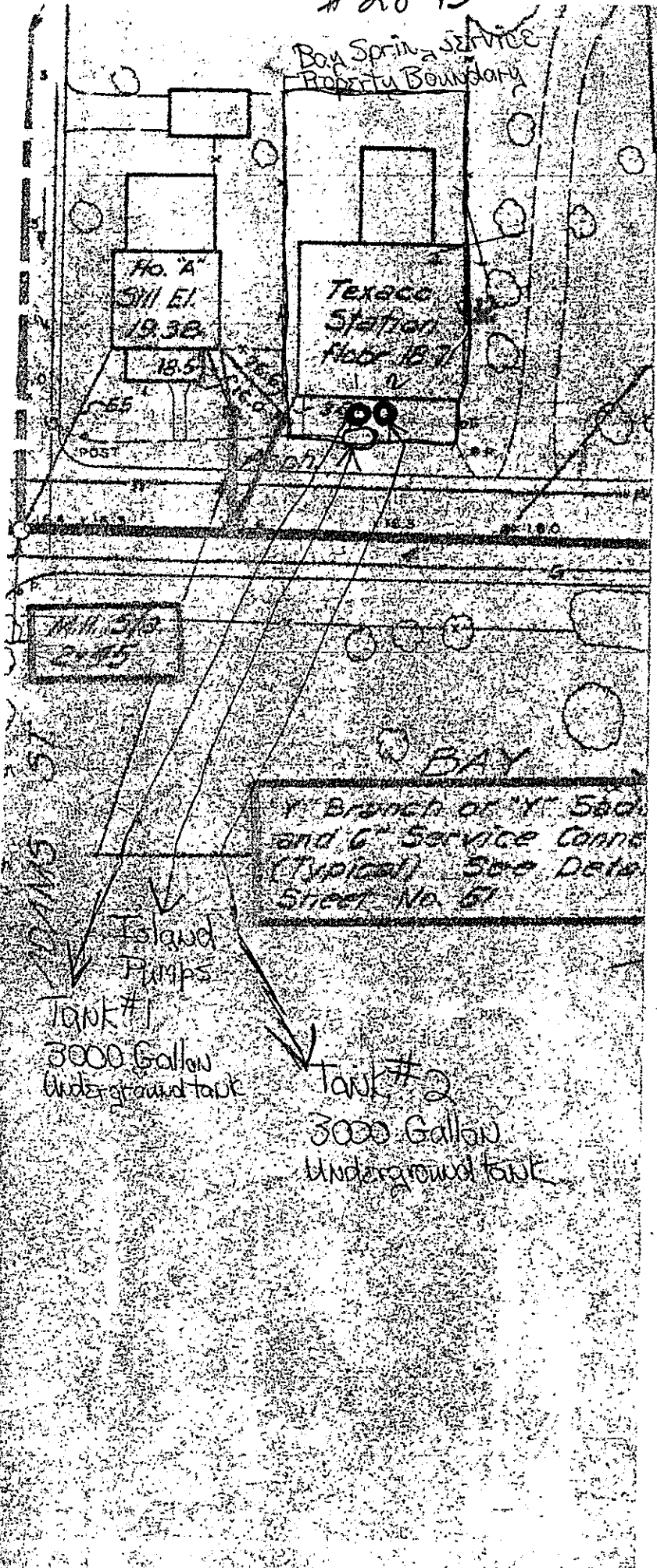
SM:lag

cc: Charles P. Messina, DEM Legal Counsel
Mary Toti, Groundwater Section, DEM

*(no extra charge)
2. If you do not u...
the article...*

#2843

Boy Spring Service
Property Boundary



Ho. A
511 E.I.
19.38
18.5

Texaco
Station
Floor 18.7

POST

55

1111.310
2.145

BAY

Y Branch of "Y" 500
and G Service Conn.
(Typical) See Detail
Sheet No. 61

Island
Pumps

Tank #1
3000 Gallon
Underground tank

Tank #2
3000 Gallon
Underground tank



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Environmental Management
DIVISION OF GROUNDWATER AND
FRESHWATER WETLANDS
291 Promenade Street
Providence, R.I. 02908 - 5767

03 February 1989

CERTIFIED MAIL

Richard Charpentier
Bay Spring Service Garage, Inc.
115 Bay Spring Avenue
Barrington, RI 02806

RE: Underground Tank Closure

Dear Mr. Charpentier:

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Sincerely,

Saverio Mancieri, Sanitary Engineer
Division of Groundwater and Freshwater Wetlands
Department of Environmental Management

SM:lag

cc: Charles P. Messina, DEM Legal Counsel
Mary Toti, Groundwater Section, DEM

Peter:

#2843

~~8/18/88~~

8/18/88

Bay Spring Auto
115 Bay Spring
Barrington, RI

Donald Powers
617-848-6965

Donald Powers called because there are gas pumps at the above address, but they have not sold gasoline in 15 years. He wanted to know if tanks were taken out or abandoned since he is putting in a well next to this site.

I checked the files and we do not have a registration or a closure.

How do we find out if tanks were removed?

Leslie

i visited 8/19/88 - Dick Charpentier had registered he said - he doesn't have a copy & we don't either.

, called 8/19/88 - needs to register/left message

2/24/88 - he said he had a copy

rec'd. 1/14/88 - he said he had a temp. closure.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OIL POLLUTION/UNDERGROUND STORAGE TANK PROGRAM
291 PROMENADE STREET
(401) 277-2234
TDD: (401) 277-6800

CERTIFICATE # 00098

CERTIFICATE OF REGISTRATION
FOR UNDERGROUND STORAGE FACILITIES

In compliance with Chapter 46-12 of the Rhode Island General Laws, as amended and the Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials, the owner/operator of an underground storage facility located at:

PILLING MFG., INC.
90 BAY SPRING AVENUE
BARRINGTON, RI 02806

is issued this Certificate of Registration to operate an underground storage facility based upon the factual representations contained in the Application for Registration (00098) and in accordance with the Regulations for Underground Storage Facilities used for Petroleum Products and Hazardous Materials.

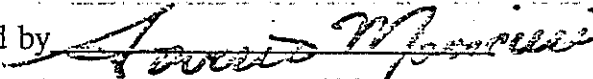
This Certificate of Registration can not be transferred to any other person, facility or location without the express written approval of the Director of the Department of Environmental Management, or his designee and in accordance with appropriate regulations.

In accordance with state regulations, any changes in the status of the underground storage tanks which may affect the registration must be reported to the Department of Environmental Management.

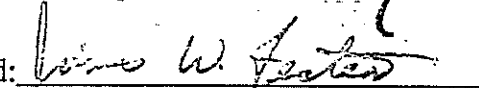
This Certificate of Registration may be modified or revoked in accordance with appropriate regulations. This Certificate is valid from July 1, 1991 to June 30, 1992 or until 45 days following issuance of a fee invoice.

Date Signed: February 6, 1992

Reviewed by



Approved:



James W. Fester
Associate Director for Regulation
Department of Environmental Management

**DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF GROUNDWATER AND FRESHWATER WETLANDS
291 PROMENADE STREET
(401) 277-2234
TDD: (401) 277-6800**

CERTIFICATE # 00098

**CERTIFICATE OF REGISTRATION
FOR UNDERGROUND STORAGE FACILITIES**

In compliance with Chapter 46-12 of the Rhode Island General Laws, as amended and the Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials, the owner/operator of an underground storage facility located at:

**COLBY INDUSTRIES, INC.
90 BAY SPRING AVENUE
BARRINGTON, RI 02806**

is issued this Certificate of Registration to operate an underground storage facility based upon the factual representations contained in the Application for Registration (00098) and in accordance with the Regulations for Underground Storage Facilities used for Petroleum Products and Hazardous Materials.

This Certificate of Registration can not be transferred to any other person, facility or location without the express written approval of the Director of the Department of Environmental Management, or his designee and in accordance with appropriate regulations.

In accordance with state regulations, any changes in the status of the underground storage tanks which may affect the registration must be reported to the Department of Environmental Management.

This Certificate of Registration may be modified or revoked in accordance with appropriate regulations. This Certificate is valid from July 1, 1990 to June 30, 1991.

Date Signed: July 24, 1990



Reviewed by _____



Approved: _____

Stephen G. Morin, Chief
Division of Groundwater and Freshwater Wetlands
Department of Environmental Management

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF GROUNDWATER AND FRESHWATER WETLANDS
291 PROMENADE STREET
(401) 277-2234
TDD: (401) 277-6800

CERTIFICATE # 00098

CERTIFICATE OF REGISTRATION
FOR UNDERGROUND STORAGE FACILITIES

In compliance with Chapter 46-12 of the Rhode Island General Laws, as amended and the Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials, the owner/operator of an underground storage facility located at:

COLBY INDUSTRIES, INC.
90 BAY SPRING AVENUE
BARRINGTON, RI 02806

is issued this Certificate of Registration to operate an underground storage facility based upon the factual representations contained in the Application for Registration (00098) and in accordance with the Regulations for Underground Storage Facilities used for Petroleum Products and Hazardous Materials.

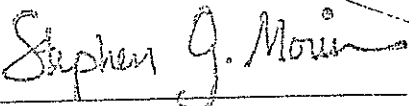
This Certificate of Registration can not be transferred to any other person, facility or location without the express written approval of the Director of the Department of Environmental Management, or his designee and in accordance with appropriate regulations.

In accordance with state regulations, any changes in the status of the underground storage tanks which may affect the registration must be reported to the Department of Environmental Management.

This Certificate of Registration may be modified or revoked in accordance with appropriate regulations. This Certificate is valid from July 1, 1989 to June 30, 1990.

Date Signed: March 15, 1990

Reviewed by 

Approved: 

Stephen G. Morin, Chief
Division of Groundwater and Freshwater Wetlands
Department of Environmental Management

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF WATER RESOURCES
75 DAVIS STREET, ROOM 209
PROVIDENCE, RHODE ISLAND 02908
(401) 277-2234



CERTIFICATE # 098

CERTIFICATE OF REGISTRATION
For Underground Storage Facilities

In compliance with Chapter 46-12 of the Rhode Island General Laws, as amended and the Emergency Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials

the owner/operator of an underground storage facility located at:

Colby Industries Inc.
Pilling Chain Company
90 Bay Spring Avenue
Barrington, RI 02806

is issued this Certificate of Registration to operate an underground storage facility based upon the factual representations contained in the Application for Registration (Number 098) and in accordance with the Emergency Regulations for Underground Storage Facilities used for Petroleum Products and Hazardous Materials and any additional terms and conditions stated below:

None

This Certificate of Registration can not be transferred to any other person, facility or location without the express written approval of the Director of the Department of Environmental Management, or his designee and in accordance with appropriate regulations.

This Certificate of Registration may be modified or revoked in accordance with appropriate regulations.

Signed this 11 day of March, 1985.

Reviewed by

Henry A. Sardelli, P.E.
Henry A. Sardelli, P.E.

Approved:

James W. Fester
Chief, Division of Water Resources
Rhode Island Department of
Environmental Management
Providence, Rhode Island 02908

JWF/as

RECEIVED
R.I. DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF WATER RESOURCES
75 DAVIS STREET ROOM 209
PROVIDENCE, RHODE ISLAND 02908
(401) 277-2234



FEB 27 1985

APPLICATION

~~DIVISION OF WATER RESOURCES~~
DIVISION OF WATER RESOURCES

For Underground Storage Facilities
Certificate of Registration -

8/02/27

3/5 will send map

00098

REGISTRATION NUMBER: 098

FACILITY NAME: Colby Industries Inc. d/a/a Pilling Chain Co., Inc. DATE: 2/25/85

STREET ADDRESS: 90 Bay Spring Avenue, OWNER

CITY/TOWN: Barrington, Rhode Island ZIP 02806 OPERATOR

1) Is this a New or Existing Facility?

2) Date operation commenced August, 1960

3a) If a New facility, is a set of detailed engineering plans and project specifications, including operation and maintenance requirements enclosed? Yes No
(See Section 6,b,1)

b) If an Existing facility, is a site plan of all equipment locations enclosed?
(See Section 6,b,2) Yes No

4) PRECISION TESTING

(a) Are precision testing results available? Yes No
Enclose these results if available.

(b) Date of most recent precision testing unknown

(c) Specify where testing has been performed Tanks Lines unknown

(d) Specify when testing was performed Before installation After installation unknown

5) TANK INFORMATION

No.	Age	Volume	Material/ Construction	Stored Material	Tank Corrosion Protection Devices
1	1975/10	1,000 gal	steel	#2 fuel oil	unknown

6) Dispensing Pump System Island *Remote (Sump) Other unknown
(See below)

a) Line Leak Detection System Installed Yes No unknown

b) Does the base of the dispensing unit have an emergency shut off valve? Yes No
unknown

- 7) U.L. Standard Used unknown
- 8) Are recovery wells installed? Yes No
- 9) Are monitoring wells installed? Yes No
- 10) Does a drinking water supply exist within 1,000 feet of the facility location?
 Yes No

Specify Type: Public Private Underground Well
 Surface Source Water Body (name) _____

- 11) Have any leaks or spills occurred at this facility? Yes No
(Please attach report/description of incident)

12) COMPLETE THIS SECTION IF THERE ARE ABANDONED OR EMPTY TANKS AT FACILITY

- a) How many tanks are presently abandoned or empty? none
- b) Classify the type of tank closure Temporary Permanent
(See Section 13)
- c) Has precision testing been conducted on the empty tanks? Yes No
(Please include these results if available)
- d) Results of precision test Positive (leaks) Negative (no leaks)
- e) Will empty or abandoned tanks be filled or removed?

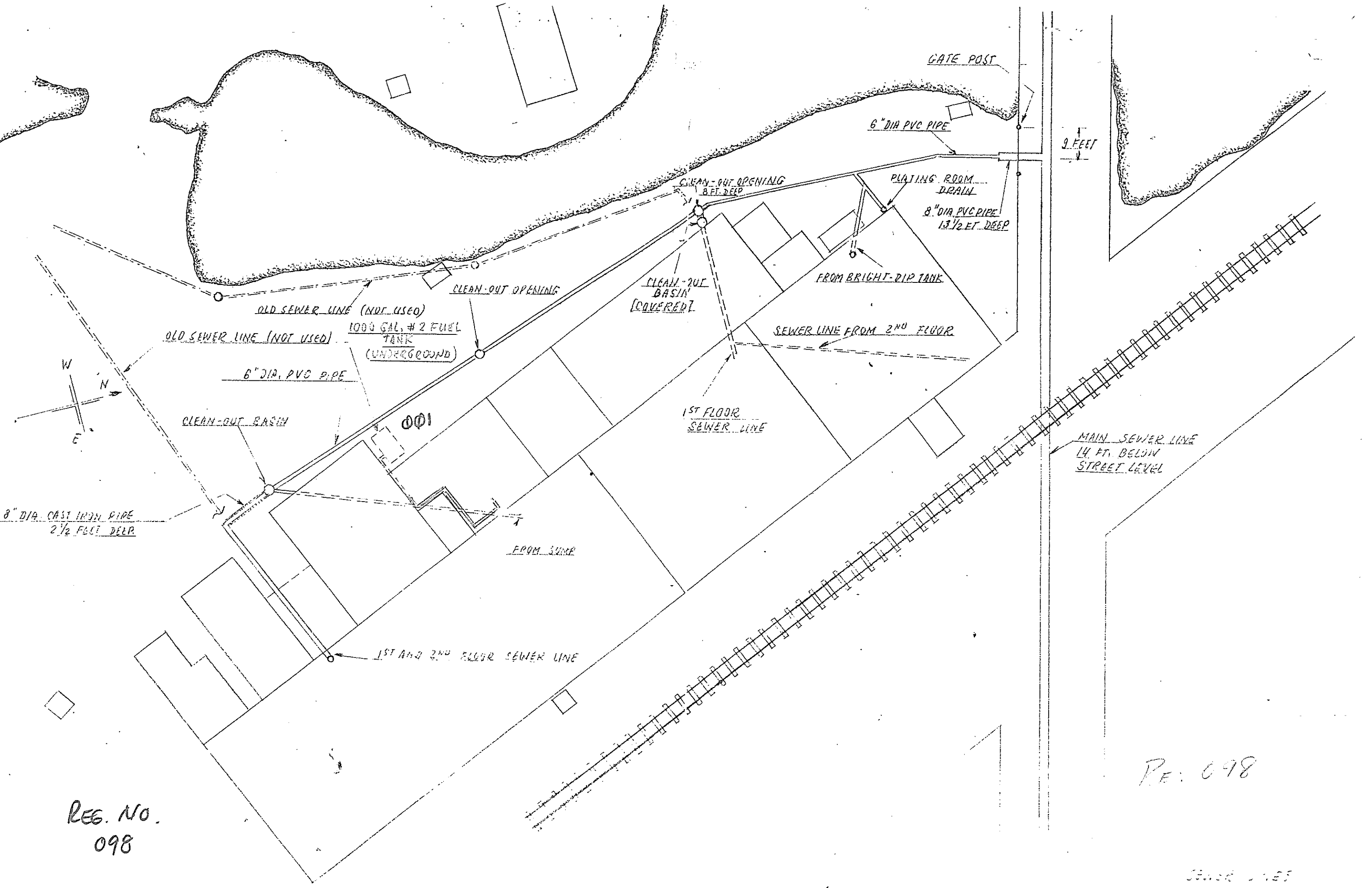
13) Include any additional information/remarks: _____

See DEM "Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials"

Submitted by: Gilbert Raymond Gilbert Raymond, General Manager

Address: 90 Bay Spring Avenue, Barrington, R. I. 02806

Telephone Number: 246-0100



REG. NO.
098

RE: 098

SEWER LINES

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
UNDERGROUND STORAGE TANK SECTION
291 Promenade Street
Providence, Rhode Island 02908
(401) 277-2797

UST FACILITY ID #00098/18144
LUST FACILITY ID _____

CLOSURE CERTIFICATE
FOR UNDERGROUND STORAGE FACILITIES

In compliance with Chapter 46-12 of the Rhode Island General Laws, as amended, and the Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials,

Barrington Cove Apartments

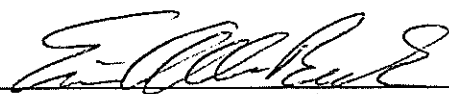
owner/operator of an underground storage facility located at

90 Bay Spring Avenue
Barrington, RI

is issued this Certificate of Closure indicating that the storage tanks described below have been taken out of service permanently, in compliance with the Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials.

TANK ID	VOLUME	STORED MATERIAL	DATE LAST USED	STATUS OF TANK F=Filled R=Removed
<u>001</u>	<u>1000 gal.</u>	<u>#2 fuel oil</u>	_____	<u>R</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Signed this _____ 14th _____ day of _____ April _____, 19 97

Approved: 
Underground Storage Tank Section
Department of Environmental Management

NOTE: This is not a document to approve or certify that tanks are/were safe or clean to transport.

#98

OFFICE OF WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAMS

Facility Name Barrington Cove Apartments
Address 90 Bay Spring
Barrington

Facility I.D. 00098
LUST I.D. _____

Date of Closure 1/8/97

ISSUE CLOSURE CERTIFICATE

- received closure assessment on (date) _____
- received site investigation report on (date) _____
- received core sample results on (date) 1/30/97
- received soil removal documentation on (date) _____
- received concrete slurry fill slips on (date) _____
- site monitoring complete on (date) _____
- remedial system shut down & monitoring complete on (date) _____
- other : specify _____

ACTIVE LUST SITE, Hold closure certificate until further notice

SITE STATUS was not designated a lust site

designated a LUST Site:
(circle one) soil removal only
inactive
active

Consultant to be copied on closure certificate:

MC 4/1/97 OR _____
project manager (initials) DATE Supervisor (initials) DATE



ENGINEERING

Mr. Michael Cote
Department of Environmental Management
Division of Waste Management
Underground Storage Tank Section
235 Promenade Street
Providence, R.I. 02908-5767

January 30, 1997

Re: Underground Storage Tank (UST) Closure
Bay Spring Ave
Barrington, R.I.

Dear Mr. Cote:

On January 8, 1997 a 2000 gallon oil UST was removed from the above referenced site . An oil residue was noticed at the bottom of the tank after it was removed from the excavation. This prompted a soil sample to be taken 1' - 2' below the tank grave. Attached for your review is the TPH analysis taken from that soil sample. The client is concerned on finalizing the closing this tank and would like to asphalt over the backfilled area. Your expeditious response to this letter would be appreciated. If you should any questions regarding this correspondence feel free to contact my office at 467-4040.

Sincerely,

Michael A. Del Rossi, Principal

attachments

cc: Frank Silva w/attachments

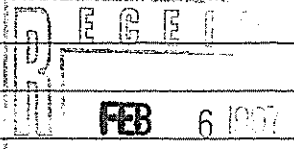
MDR ENGINEERING
 681 Park Avenue
 CRANSTON, RI 02910

LETTER OF TRANSMITTAL

TEL (401) 467-4040
 FAX (401) 467-4980

TO

Michael Cote

DATE	1-30-97	JOB NO.	971012
ATTENTION	Michael Cote		
RE:	UST Closure Bay Spring Ave Barrington		
			

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
	1-30-97	1	Letter dated 1-30-97
/		1	Chain of Custody
/		1	LMB Reports

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS Mike - Attached is the information regarding the tank
closure @ Bay Spring Ave in Barrington. The client is
requesting the excavated area, which is now gravel, be asphalted.
Please contact my office if that is acceptable.

COPY TO Frank Silva

SIGNED: Sincerely,
M. O'Rourke



Analysis Report: Total Petroleum Hydrocarbons

Client: MDR Engineering, Inc.

Analysis: Method 8100M

Matrix: Soil

Concentration in: mg/kg, dry weight basis

<u>Lab ID</u>	<u>Client ID</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>% Solid</u>	<u>p-Terphenyl Surrogate Recovery %</u>	<u>Analysis Date</u>
D0030-01	beneath tank	670	23	73	88	1/10/97

QA/QC

Method Blank

F0109-B1	ND	17		90	1/10/97
----------	----	----	--	----	---------

Lab Control Sample (% Recovery)

F0109-L1	120			92	1/10/97
----------	-----	--	--	----	---------

ND = Not detected

The samples were quantitated using diesel as standard.

#98

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
UNDERGROUND STORAGE TANK SECTION
291 Promenade Street
Providence, Rhode Island 02908
(401) 277-2797

18144

UST ID 00082

LUST ID _____

CLOSURE INSPECTION SHEET
FOR UNDERGROUND STORAGE FACILITIES

On the 8th of January 1997 I, Michael Cote
(date) (inspector)

witnessed the permanent closure of the following underground storage tanks owned/operated by

Bawlington Cove Apartments
(owner/operator)

and located at

90 Bay Spring Ave. Pawlington
(address)

TANK ID	VOLUME	STORED MATERIAL	TANK STATUS (F=Filled / R=Removed)
<u>001</u>	<u>1000</u>	<u>Le/0.1</u>	<u>R</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Signature: Michael Cote

Title: SR Leaking UG Storage Tank Section
Underground Storage Tank Section, Leaking Underground Storage Tank Section
Department of Environmental Management

A closure assessment must be submitted to the Division of Site Remediation, Leaking Underground Storage Tank Section within 30 working days.

NOTE: This is not a document to approve or certify that tanks are safe or clean to transport.

Rhode Island Department of Environmental Management
Underground Storage Tank Section
UST CLOSURE INSPECTION CHECKLIST

UST Facility ID#: 00098 LUST#: _____

Site/Street: Barrington Cove Apartments

Contractor: CYN Environmental

Consultant: MDR

Contact: _____

Condition of Tank/Piping: Heavily pitted, no holes noted

Condition of Soils: stained

Other Observations: Requested TPH bottom sample because ground water was shallow

Groundwater Present: YES NO 5' Sheen Present: YES NO

Free Product Visible: YES NO Measurement: _____

Site Sketch:

RESULTS OF INSPECTION/ACTION REQUIRED

- | | |
|---|--|
| <input type="checkbox"/> Minor Staining, Soils Removed | <input type="checkbox"/> Additional Tanks Found/Fees Owed: _____ |
| <input type="checkbox"/> Soils Required Excavation, contained, disposed of in accordance with state regulations | <input checked="" type="checkbox"/> Closure Assessment Required |
| <input type="checkbox"/> Site Investigation Report Required w/ groundwater monitoring wells | <input type="checkbox"/> Leak/release observed, notification to LUST Program |
| <input type="checkbox"/> Other | <input type="checkbox"/> Issue Certificate of Closure
No Further Action Recommended |

Inspector: Michael COTE

Signature: Michael COTE Date: 1/8/97



STATE OF RHODE ISLAND
 DIVISION OF WASTE MANAGEMENT
 PERMANENT CLOSURE APPLICATION
 FOR UNDERGROUND STORAGE TANK(S)

DEM USE ONLY
 Approved: NAS
 Date Scheduled: 1/8/96
 Total \$ Received: 1125
 Date Received: 12/4/96
 Check Number: 38361
 Received by: [Signature]

FEEES

Closure: Number of Tank(s): ONE X \$75.00 Per Tank = 75.00
 Registration: Number of Tank(s): ONE X \$50.00 Per Tank = 50.00
 * Payment for all unregistered tank(s) and tank(s) with outstanding registration fees, must accompany this application.

re: back fee - new ownership (acquired in July 1996)

II. FACILITY INFORMATION

Date of Application: <u>11/18/96</u>		UST Facility Identification #: <u>00098</u> ✓	
Proposed Date of Tank Closure: <u>12/10/96</u> <i>NB 12/17</i>		(This date is subject to change pending availability and confirmation by the UST Section.)	
Facility Name: <u>BARRINGTON COVE APARTMENTS</u>			
Facility Address: <u>90 Bay Spring Avenue</u>			
City: <u>Barrington</u>	State: <u>RI</u>	Zip: <u>02806</u>	Phone: <u>(401) 246-2392</u>
Contact Person: <u>MIKE HARRINGTON</u>	Title: <u>JOB SUPERINTENDENT</u>		

III. TANK OWNER INFORMATION

Tank Owner Name: <u>BARRINGTON COVE LIMITED PARTNERSHIP</u>			
Mailing Address: <u>313 Congress Street</u>			
City: <u>Boston</u>	State: <u>MA</u>	Zip: <u>02210</u>	Phone: <u>(617) 345-9300</u>
Contact Person: <u>DAVID CANEPARI</u>	Title: <u>EX VICE PRESIDENT</u>		

IV. PROPERTY OWNER INFORMATION

Property Owner Name: <u>BARRINGTON COVE LIMITED PARTNERSHIP</u>			
Mailing Address: <u>313 Congress Street</u>			
City: <u>Boston</u>	State: <u>MA</u>	Zip: <u>02210</u>	Phone: <u>(617) 345-9300</u>
Contact Person: <u>DAVID CANEPARI</u>	Title: <u>PRESIDENT</u>		

V. FIRM/CONTRACTOR TO PERFORM TANK CLOSURE

Name of Contractor/Firm: <u>CYN ENVIRONMENTAL SERVICES, INC.</u>			
Mailing Address: <u>1771 Washington Highway</u>			
City: <u>Stoughton</u>	State: <u>MA</u>	Zip: <u>02072</u>	Phone: <u>(401) 467-5790</u>
Contact Person: <u>GREGORY A.J. MACDOUGALL</u>	Title: <u>GENERAL MANAGER</u>		

VI. FIRM/CONSULTANT TO PERFORM CLOSURE ASSESSMENT

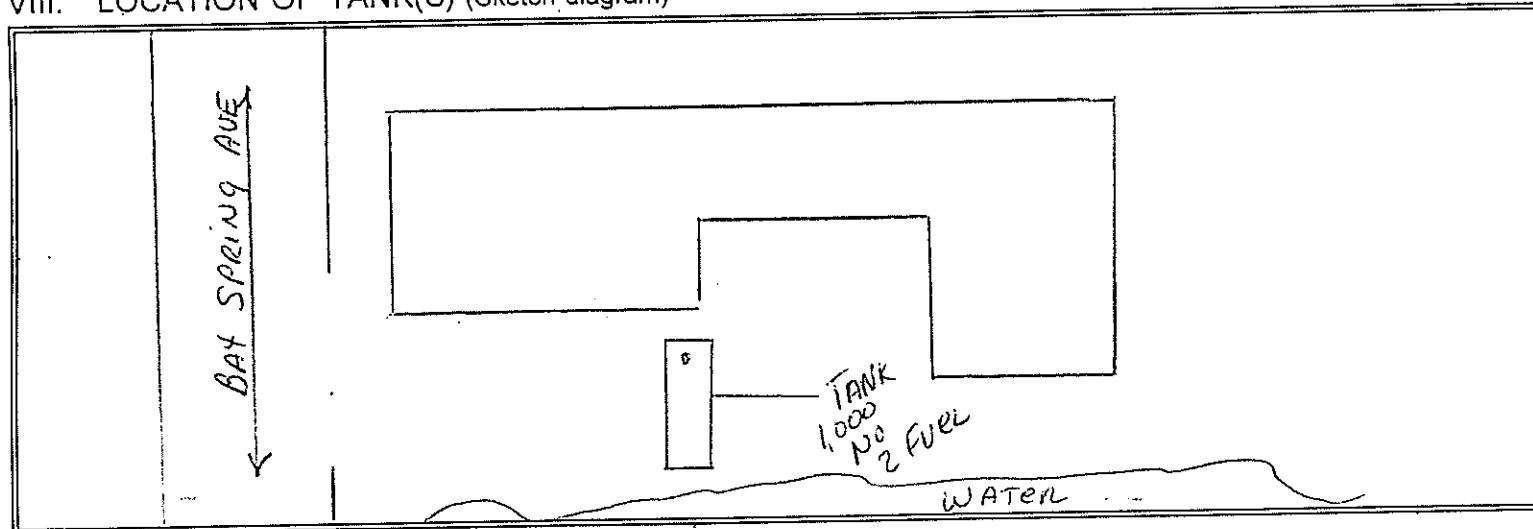
Is a Closure Assessment required for this facility? (See Section 15.06)		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
If not, do you choose to obtain one?		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Please check one of the following:			
<input type="checkbox"/> Professional Engineer		<input type="checkbox"/> Certified Professional Geologist	
<input type="checkbox"/> Other (Equivalent Professional Certification) "Subject to DEM Approval"		* A statement of qualifications must be submitted with this application.	
Name of Consultant/Firm:			
Mailing Address:			
City:	State:	Zip:	Phone: ()
Contact Person:	Title:		

VII. DESCRIPTION OF TANK(S) TO BE CLOSED

Tank No.	Age	Date Last Used	Volume	Construction Materials	Stored Material
001	30	1990	1000 gal.	STEEL	NO. 2 FUEL

* If there are more tanks being closed please list on an attachment.

VIII. LOCATION OF TANK(S) (Sketch diagram)



IX. CLOSURE INFORMATION

Will tank(s) be excavated, cleaned and disposed of (Section 15.11)? Specify method of tank cleaning: <u>PUMP AND FLUSH</u> or,	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If circumstances exist which inhibit excavation, you may request a UST Closure in Place. <i>This request is subject to DEM approval.</i> Are you requesting to close tank(s) in place? Owner must submit supporting documentation providing specific details on the necessity to close in place and a detailed diagram must be attached to this application. <i>Please note: There are additional requirements for determining tank integrity as detailed in the Closure in Place guidelines.</i>	
Specify whether cleaning will take place: If OFF-SITE, indicate location of final tank(s) cleaning (Name & Address): _____	<input checked="" type="checkbox"/> ON-SITE <input type="checkbox"/> OFF-SITE
Will tank(s) be rendered unfit for use and disposed of? If YES, location for final tank(s) disposal: <u>Grants, Mass.</u>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Will tank(s) be reused? Please note: <i>Reuse of a tank in the ground requires compliance with Section 12.03 of UST Regulations.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If tank(s) is to be reused, specify: Proposed use: <u>N/A</u> Name & Address of intended user: _____	
Describe the method to be used to empty the tank(s) prior to excavation: <u>VACUUM TRUCK WITH OPERATOR</u>	
Describe the method to be used to remove the tank(s) from excavation: <u>580 CASE BACKHOE WITH OPERATOR</u>	
Describe the method(s) to be used to properly and safely vent the tank(s) and properly make openings in the tank(s): <u>COPAS VENTURE HORN FAN WITH COMPRESSOR ATTACHMENTS</u>	
Please note: <i>Appropriate venting must be carried out both before the cutting of any tank and before off-site transport of any tank which has not been completely cleaned per Rule 15.11(c) of the UST Regulations.</i>	
Describe the instrument(s) used to verify that the tank(s) have been properly vented: <u>MSA 4962 LeL - 0 METER</u>	
Describe how any residues remaining in the tank(s) will be managed: <u>PUMPED ON TO VACUUM TRUCK TRANSPORTED TO CYN ENVIRONMENTAL.</u>	
Have these tank(s) ever held non-petroleum, hazardous materials? If yes, please list materials: _____	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Have any of the tank(s) ever contained a product <u>other</u> than that listed in Section VII above? If yes, please list tank # and material stored: _____	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
After the closure(s) have been completed on the aforementioned tank(s), will there be any underground storage tank(s) remaining in existence at this facility?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Will any new UST(s) be installed on the site? If YES, please note: Prior written approval by DEM is required.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

X WASTE HAULER INFORMATION (if applicable)

Firms transporting tank sludge and waste or tank(s) which require further cleaning must be permitted by DEM, Division of Waste Management, RCRA Section as Hazardous Waste Transporters.

Specify method for disposing of tank sludges or wastes generated by the cleaning process: MATERIAL WILL BE TRANSPORTED TO CYN ENVIRONMENTAL

Name of Waste Hauler: CYN OIL CORPORATION
Address: 1770 Washington High. City: Stoughton State: MA Zip: 02072
DEM Waste Hauler Permit #: RI 345

XI. NOTIFICATION OF LOCAL FIRE DEPARTMENT

The authorized signature of the local fire department below indicates that the local fire officials have been notified that you are planning to close an underground storage tank(s) at the above location. You must also notify the local fire department of the exact closure date after you have confirmed this date with DEM.

Authorized Local Fire Department Representative (Original Signature is Required)
BARRINGTON F.D.
Name of Local Fire Department
Date: December 7, 1996
Phone Number: (401) 247-1915

This signature however, does not serve as notice to the city/town, does not guarantee city/town approval, and does not relieve you of your obligations to other applicable city/town officials. Any violation, deficiency or requirement which may have been overlooked is also subject to correction under the provision of any applicable code.

XII. CERTIFICATION BY TANK OWNER (This section MUST be completed by tank owner)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. I further certify that records pertaining to the closure will be kept on file by me indicating final destination of residues, etc. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Owner: (please print) DAVID CANEPARI Title: Sx Vice PRESIDENT
Address: 313 Congress Street City: Boston State: MA Zip: 02261-1288
Telephone: 617-345-9300
Signature: [Signature] Date: 11-22-96
(Original Signature is Required)
Who should be contacted for questions regarding this application and for scheduling the UST Closure?
GREGORY A.J. MACDOUGALL GENERAL MANAGER 401-467-5790
Name Title Telephone

GROWDUSTER W
BORING

O'BANNON CORPORATION
MFR'S OF ARTIFICIAL LEATHER

MAIN BLDG (EXISTING)

FORMER PICKLE BUILDING

EVIDENCE OF UNDERGROUND
ACID (?) TANK

SUPPOSEDLY, SOIL SAMPLE
A-1 FROM THIS AREA

1921 SITE PLAN (REVISED)
90 BAY SPRING AVE BERRINGTON

OWNER: GEORGE N

BY GEISSER ENGINEERING CO
227 VANDANOCK TRAIL E. BERRINGTON

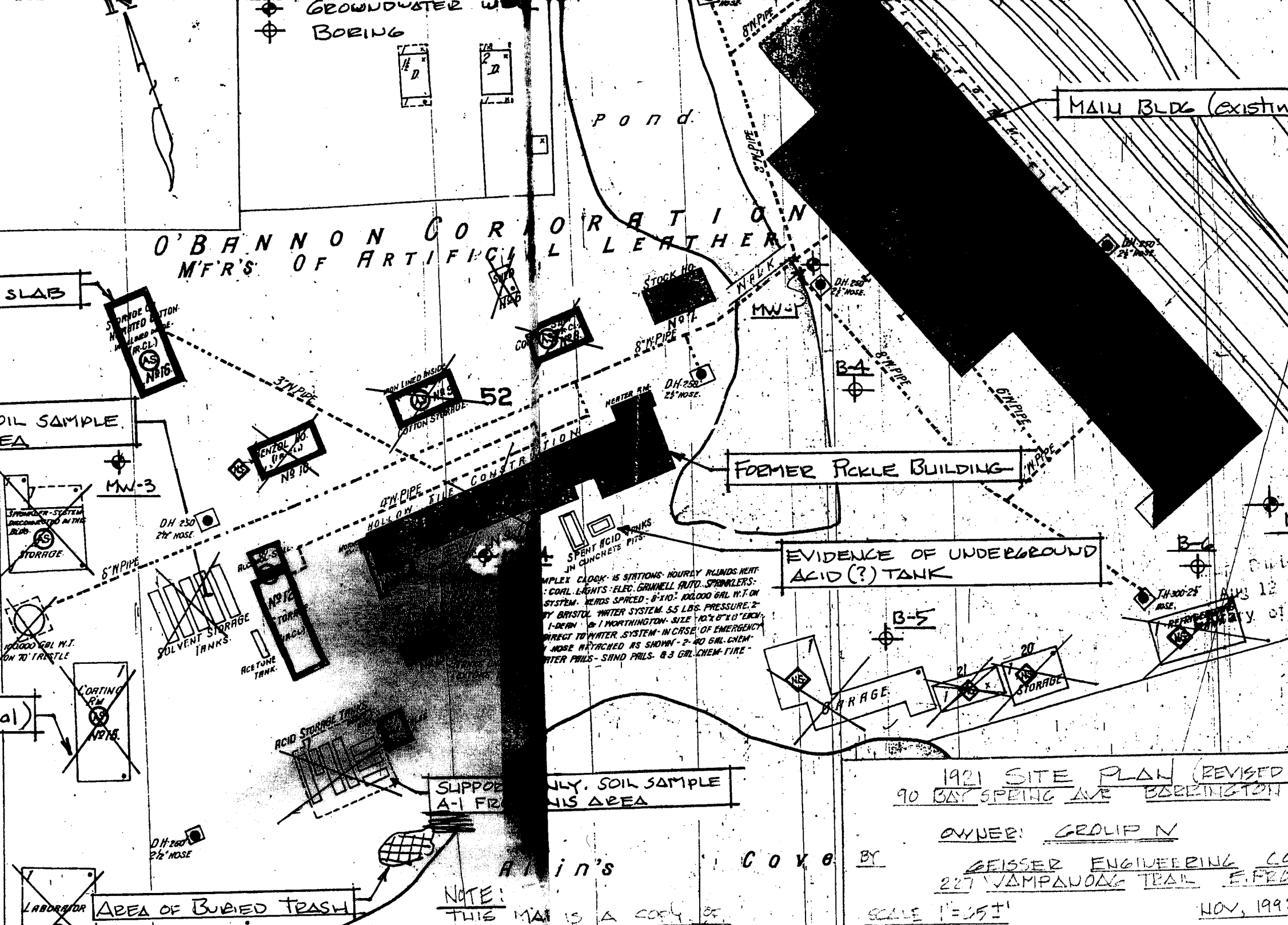
SCALE 1"=25'

NOV, 1991

COMPLEX CLOCK IS STATIONS HOURLY ROUNDS HEAT
COAL LIGHTS ELEC GRINNELL AUTO SPARKLERS
SYSTEM WINDS SPACED 8'X10' 100,000 GAL W.T. ON
BY BRISTOL WATER SYSTEM 55 LBS PRESSURE 2
1-DRAIN 1 WORTHINGTON SIZE 10'X8'X10' EACH
DIRECT TO WATER SYSTEM IN CASE OF EMERGENCY
HOSE ATTACHED AS SHOWN - 2-40 GAL CHEM
WATER PAILS - SAND PAILS - 8-3 GAL CHEM FIRE

NOTE:
THIS MAP IS A COPY OF

LABORATORY AREA OF BURIED TRASH



11/92

K653

PHASE II OIL AND HAZARDOUS WASTE
ASSESSMENT
FOR
LAND AND BUILDINGS AT
90 BAY SPRING AVENUE
IN
BARRINGTON, RHODE ISLAND

FOR
GROUP IV
NOVEMBER 20, 1992

GEISSER ENGINEERING CORPORATION
CONSULTING ENGINEERS
P. O. BOX 4480
RIVERSIDE, RHODE ISLAND
PROJECT NO. K-653

INTRODUCTION

The purpose of this Phase II Oil and Hazardous Waste Assessment is to evaluate the presence of oil and hazardous waste at the assessment site located at 90 Bay Spring Avenue in Barrington, Rhode Island. For purposes of this report the assessment site will be referred to as the "Site".

This assessment will be based on information contained in the existing land evidence records of the Town of Barrington, observations made during one or more site inspections, the review of available street directories, file reviews of Underground Storage Tank and Air and Hazardous Waste related records of the Rhode Island Department of Environmental Management (RIDEM), a review of Sanborn Insurance (Atlas) Maps, the review of subsurface boring logs and the laboratory analysis of subsurface soil and groundwater samples for the presence of contaminants.

SITE LOCATION AND DESCRIPTION

The Site is situated in the West Barrington section of Barrington which is approximately 2 1/4 miles northwest of the Town Hall in an area of mixed residential homes and retail businesses such as restaurants, retail stores, shops and professional offices. All but the extreme westerly portion of the Site along

Adams Street is zoned M (Manufacturing). A 100' deep strip of land in the site along Adams Street is zoned R (Residential). Refer to Appendix "A" for a locus and site plan.

The Site consists of an approximately 7.8 acre parcel of land (Plat 2, Lot 12) which is generally rectangular in shape and flat land on which is situated a three-story, wood-framed brick facade industrial building which was constructed in 1912. The third floor covers approximately 25% of the second floor. The footprint of this building contains approximately 35,000 square feet. The Site also contains an abandoned single-story concrete block building (20' x 30') which was formerly Stock House No. 2 by previous tenants. The northerly portion of the Site is bisected by a pond into which flow waters from the Annawamscott Brook. Waters from this pond exist via a small spillway at the southerly end of the pond into Allin's Cove which flows into Narragansett Bay.

The westerly portion of the Site is presently vegetated over but at one time was totally developed and contained manufacturing buildings, tank farms, storage buildings and sheds. Refer to Appendix "B" for a 1921 Site plan of this site.

The Site is situated along the southerly line of Bay Spring Avenue and is bounded to the west by Adams Street (a residential street with single-family homes), to the south primarily by Allin's Cove and to the east by a bicycle and walking pathway which was

formerly a railroad track bed of the New York, New Haven and Hartford Railroad Company. The northwest corner of the Site is bounded in part by the Allin Cemetery and in part by a single family residential dwelling.

SITE HISTORY

The Site is presently owned by Group IV which acquired the site in 1986. A partial list of previous owners and dates of acquisition are as follows:

Group IV	September 1986
Ban Realty	August 1971
Wm. & Dolores Grace	August 1962
Charles & Leah Lahey	August 1960
Frank & Rita Pietruszka	December 1948
Collins & Aikman Corp.	December 1945
.	.
.	.
.	.
International Rubber Co.	May 1910
Interlaken Mills	January 1904
Annawamscott Mills	March 1897

A conversation by this writer with Mr. Nicholas Gizzarelli, the Town of Barrington's Historian, indicated that this Site was originally developed to produce textiles and narrow fabrics. A review of Sanborn Insurance (Atlas) Maps indicate that in 1921 this site was utilized by the O'Bannon Corporation (International Rubber Cloth Division). A copy of a plan of this Site as it appeared in 1921 can be found in Appendix "B" of this report. This Site was

used in conjunction with another mill site directly across Bay Spring Avenue from this Site at 85 Bay Spring Avenue.

Discussions with representatives of the Group IV Corporation indicated that for the last 40 years the following companies have occupied all or part of this Site. This list is not intended to be a complete list of tenants.

American Tourister Corp (makers of luggage) utilized the Site for storage purposes.

Collins and Aikman (Textile and Weaving) most probably occupied the Site for a long time as their name (though faded) appears on the aboveground water tower situated across the street from this Site at 85 Bay Spring Avenue.

Cast Products, die cast company.

Colby Industries, Inc., miniature zinc die casting, metal stamping and zipper components.

Holly Industries, Inc.

Pilling Chain Co., Inc., (later to become Pilling Mfg.) products included zipper components, custom metal stampings and miniature zinc die castings and plating of same.

Six D's Corporation

Presently the building has four (4) tenants, two of which are located on the third floor. One third floor tenant being "The Forgotten Garden", a two-person furniture restoration and antique warehouse which occupies approximately 5,000 square feet. The second tenant being the L. Giorgio (cabinetmaker) woodworking shop,

which occupies approximately 2000 square feet area and is staffed by only the owner Mr. Giorgio.

The last tenant who occupied the first floor, Pilling Manufacturing, had at the time of this writing filed for Chapter 7 bankruptcy and was not occupying the building, even though a large amount of their equipment and some stock was still in place.

The second floor of the building was mostly empty except for two (2) small areas which were leased to in the case of the third tenant old bicycles and bicycle parts (approximately 2,400 square feet), and in the case of the fourth tenant approximately 2,000 square feet used for the storage of plastic foam material, most of which is stored in boxes. In both these cases, the areas are solely used for storage. The remainder of this second floor has been vacant for at least five (5) years.

SITE INSPECTIONS

Site inspections were conducted by this writer on August 15 and 31, September 24 and 30, October 2 and November 13, 1992.

The inspection of the interior of the first floor of the main building revealed the presence of what appeared to be most of the equipment, raw stock, scrap and supplies of Pilling Manufacturing, which recently occupied most of the entire first floor of this

building (35,000 square feet) and which has since filed for Chapter 7 Bankruptcy.

A total inventory of all equipment and supplies observed in this leased Pilling space would be well outside the scope of this report. However, the following was observed:

- HW
- Approximately 20 55-gallon barrels of cutting oil and hydraulic fluid.
 - Many barrels of zinc die cast pieces and slag.
 - Metal-cutting and operating machines.
 - Rolls of wire and raw stock.
 - A plating room approximately 80' x 80' capable of plating zinc castings by the barrel-plating method. Some tanks contained plating liquids.

UIC

The September 24, 1992 inspection revealed two floor drain (trough) systems which appeared to be a part of both the degreasing and barrel plating operations formerly conducted by Pilling. Both drains contained liquids. It could not be determined if these drain systems were closed systems or if they had outlet drains to allow the liquids to flow to the public sewer system or elsewhere. A subsequent inspection on November 13, 1992 detailed later in this report will address these floor drain systems.

Spanning the entire length of the first floor (Pilling location) is an overhead 8" steamline covered with insulation which

Asbestos

in the opinion of this writer contains asbestos fibers. In some areas this insulation was broken, thus possibly allowing asbestos fibers to becoming airborne.

HW
A boiler room, which supplies steam for heating to this entire main building is also situated on the first floor. This room contains an oil-fired boiler fueled by No. 6 fuel oil which is stored in an aboveground 5000-gallon tank (also in this room) which is contained within a concrete structure, approximately 16 feet wide and 35 feet long. Also observed in this boiler room and in an adjoining room were several barrels of miscellaneous oils and lubricants as well as containers which once contained sodium and zinc cyanides most probably used in the Pilling plating operations.

The second floor of this building at the time of the inspections was vacant and had been so for at least the last five (5) years with the exception of the previously mentioned storage areas for the bicycles and plastic foam material. Protruding through the second story floor from the first floor below at generally even spaced intervals on the floor were observed steam riser pipes from the main feed steamline on the ceiling below. These riser pipes, as well as steam condensate return lines, were also covered with insulation which in the opinion of this writer contains asbestos fibers. A portion of these riser pipes were boxed-in by wooden frames constructed around them but the upper

portions of these riser pipes were not boxed-in. Some insulation was broken.

The third floor of this building only spans approximately 25% of the second floor roof. Situated on this floor are the previously mentioned L. Giorgio woodwork shop and the previously mentioned "The Forgotten Garden" furniture restoration and antique shop. Also situated on this third floor is an area approximately 15 feet by 40 feet of floor space which is covered with small cardboard boxes of zipper components which were left by a previous tenant.

UST Located along the westerly side of this building adjoining the boiler room is a 2,000-gallon underground No. 2 fuel oil storage tank which was used to supply heat to the plating tanks.

PCBs Located along and adjacent to the westerly side of the exterior of the building is a small fenced enclosure approximately 4' x 6' which contains three (3) vintage pad-mounted non-functioning electrical transformers which in all probability contain polychlorinated biphenyls (PCB). No evidence of concernable leakage from these units was observed.

At the time of these inspections a general exterior cleanup of brush, tree stumps, miscellaneous concrete and wood was in progress throughout the area surrounding this building. Mounds of

this rubble existed at several locations in the easterly sector of this Site. However, no evidence of oil or hazardous waste was observed in these rubble piles.

Western Side As was mentioned earlier, the westerly portion of this Site was at one-time developed but now is heavily vegetated. An inspection of this portion of this Site indicated the presence of a slab of the former nitrated cotton storage building, concrete cradles which once supported aboveground solvent and acid storage tanks. Also found was the slab of the alcohol Still No. 12 storage building and an opening to what might be an underground acid storage pit. The previously mentioned former Stock House No. 2 was found to contain only several pieces of firehose. Approximately 5 inches of water covered the entire floor. Next to this building was an empty 265-gallon aboveground oil tank. No spills were observed at this tank. Also situated next to this building is a chained enclosure which contains three (3) electrical transformers owned by the Narragansett Electric Company (NEC). NEC has upgraded all transformers in recent years such that these three (3) transformers contain less than 50 parts per million of polychlorinated biphenyls (PCB) in the cooling fluid, and as such are not considered PCB transformers. For the location of these features on the westerly portion of the Site please refer to the site plan in Appendix "B". Also note the soil investigatory locations of borings, monitoring wells and locations from which the

soil samples were obtained at 1.0 foot depths in the vicinity of the acid and solvent storage tanks.

Observed at the southerly portion of the westerly section of this Site was an area approximately 15' x 25' x 4' deep which was filled with rusting iron debris and discarded clay pipe. No evidence of oil or hazardous waste was observed within this debris.

On November 13, 1992, this writer reinspected that portion of the main building formerly leased by Pilling Manufacturing. Since the earlier inspection on September 24, 1992, a general cleanup and organization of materials (both raw and finished) had been organized and conducted by Mr. Gilbert Raymond, a former executive of Pilling Manufacturing. This writer observed a general collection of plating liquid materials (i.e. salts and solutions) and organization of same on several pallets. Mr. Raymond indicated that the former mentioned wastewater collection (trough) systems were actually part of wastewater pre-treatment system by which wastewater and rinse waters from the plating operations were neutralized prior to entering the Barrington Public Sewer System. An interview by this writer on November 20, 1992 with Ms. Vickie Hart of the East Providence Sewer Department which treats Barrington sewage indicated that Pilling Manufacturing indeed was pretreating their plating waste and rinsewaters and appeared to be in compliance with regulations, and had not acted in a manner which would place Pilling in "a non-compliance" status.

Mr. Raymond indicated that he had managed to sell some of the plating solutions formerly used by Pilling, but at the time of this reinspection, there appeared to be approximately 1,200-gallons of copper, brass and other solutions yet to be disposed. These solutions were in plating tanks with capacities of from 125 to 175-gallons.

RESEARCH OF HAZARDOUS WASTE RECORDS

Hazardous Waste Records of the Rhode Island Department of Environmental Management (RIDEM) were reviewed by Geisser Engineering Corporation personnel on September 3, 1992 for information or reports of incidents involving oil or hazardous wastes or materials relative to the Site.

CERCLA
RCRA
The specific records researched were the Comprehensive Environmental Response, Compensation and Liability Act (Cercla) File, the United States Environmental Protection Agency (EPA) Identification List, the Resource Conservation and Recovery Act (RCRA) Generator Files, and the Incident Response File for the Town of Barrington.

The Cercla File is an automated inventory developed by the Federal Environmental Protection Agency (EPA) of potential waste sites in Rhode Island at which there is some reason to believe a

release, illegal disposal or illegal storage of hazardous waste has occurred, any of which may cause the Site to be included on the Superfund Cleanup List. A review of this file indicated that there are no Cercla sites within a one-mile radius of the assessment Site.

The EPA Identification List is an inventory of companies which generate materials or wastes considered hazardous. Each company is issued a unique identification number which is included on all manifested shipments of waste from the site. These numbers offer a system of tracking hazardous waste shipments. A review of this file indicated that the following locations in the area presently have or had such numbers:

Caserta Auto Electric Limited
60 Bay Spring Avenue
RID980523914

(Approximately 150' east of the Site and on the opposite side of Bay Spring Avenue. This company is no longer at this location)

RI Lace Works Division
175 Bay Spring Avenue
RID001190545

(Approximately 1/3 mile west of the Site)

Both of these generators are or were considered small generators and it is our opinion that conditions at these sites have not affected the assessment Site.

*RCRA
Waste Gen
#15*

No viol.
files

The Resource Conservation and Recovery Act (RCRA) Generator Files contain individual files of those companies which in the course of their business generate or dispose of hazardous waste materials. No files were found for those companies which were known to have or presently occupy the Site.

No DEM
Incid. Resp.

The RIDEM Incident Response File for the Town of Barrington was reviewed and no reports relative to oil or hazardous waste existed for the Site, as well as other sites in the general area of the Site.

UST
on
File

A request was also made to the Underground Storage Tanks (UST) Section of the Division of Groundwater and Freshwater Wetlands (RIDEM) for information relative to the existence and registration of underground storage tanks which may exist at or adjacent to the assessment Site. These records were reviewed on September 10, 1992 and indicate that the previously mentioned 2,000-gallon No. 2 fuel oil tank at the Site is registered with the RIDEM. These records indicate that the tank was installed in 1975.

These records also indicate that two (2) other locations in the general area of the Site also have UST which are registered. Those Sites are:

Cris Realty Company
166 Bay Spring Avenue
(1) 275-gallon No. 2 oil

West Barrington Auto Sales & Service
9 Bay Spring Avenue
(1) 1000-gallon
(1) 275-gallon

It is our opinion that due to the distance of these tanks from the Site, effects from conditions and events concerning these tanks should not effect this Site.

UST release in basement

The UST Section also maintains a log of all fuel spills reported to the RIDEM. A review of this log for the period January 1980 to August 1992 indicated that on December 19, 1988 at this Site approximately 75 gallons of No. 6 fuel oil leaked onto the boiler room floor through a break in line from the indoor tank to the boiler. The spill was cleaned-up by the McDonald and Watson Corporation with no apparent damage to human health or the environment. No reports of other incidents were found.

**SUBSURFACE SOIL BORINGS
AND
GROUNDWATER MONITORING
WELL INSTALLATIONS
AND
REVIEW OF BORING LOGS**

In order to obtain subsurface soil and groundwater samples from this Site for the laboratory analysis for possible contaminants, two (2) monitoring wells (MW-1 and MW-2) and three (3) soil borings (B-4 to B-6) were drilled to a maximum depth of 20 feet and installed on that portion of the Site to the east of

the pond. Another monitoring well MW-3 was installed to the west of the pond to a depth of 20.0 feet. This work was accomplished between August 15 and 27, 1992. This writer subsequently became aware that the westerly portion of the Site (now totally overgrown) was at one time a portion of the manufacturing complex. It was decided to install a fourth monitoring well MW-4 in the former location of the pickle house. Due to the fact that acid storage tanks were situated in and around this pickle house, a soil sample at a depth of 1.0 foot was collected at two locations (A-1 and A-2) at the former locations of these acid or solvent storage areas. Refer to the 1921 site plan in Appendix "B" for the locations at which these samples were collected, monitoring wells and boring locations and former location of buildings and structures at this Site.

OK

Two (2) subsurface soil samples and one (1) groundwater sample was submitted for the laboratory analysis of the following contaminants:

SUBSURFACE SOILS

- Toxic Metals (TCLP)
- Total Petroleum Hydrocarbons (TPH)
- Polychlorinated Biphenyls (PCB)
- Volatile Organic Compounds (VOC)

GROUNDWATER

- Soluble Metals
- Total Petroleum Hydrocarbons (TPH)
- Polychlorinated Biphenyls (PCB)
- Volatile Organic Compounds (VOC)

Soil sample No. 1 was comprised of soil from MW-1, 2 and 3 and borings B-4, 5 and 6. Soil sample No. 2 was comprised of subsurface soil from monitoring well MW-4 and soil from the two former locations of the solvent and acid tanks (A-1 and A-2). The groundwater sample was comprised of groundwater from each of the four monitoring wells (MW-1, 2, 3 and 4).

A review of the boring and monitoring well installation logs drilled at this site indicate that the Site has undergone some filling to depths from 3.7 feet at boring MW-4 to a maximum of 6.0 feet at boring B-5. No evidence of oil, metal barrels or other buried waste was observed or encountered during drilling operations. Refer to Appendix "C" for a copy of the drilling logs.

LABORATORY ANALYSIS OF SOILS

The laboratory analysis of the subsoil samples indicate that the levels of contaminants identified were below those levels established by either the United States Environmental Protection Agency (USEPA) or the State of Rhode Island which would render a classification of "hazardous" to either the subsoil or groundwater. Please note that most soil samples will naturally contain small (background) levels of contaminants and one should not be concerned by these background levels. Please refer to Appendix "D" for a comparison of the laboratory report findings and United State

Environmental Protection Agency (USEPA) and Rhode Island acceptable contaminant levels.

GROUNDWATER

The groundwater laboratory analysis report likewise indicates levels of all contaminants to be within those limits which would define the groundwater as non-hazardous with one exception - that being benzene. The maximum level of benzene that can be present in water that is safe to drink is 5 micrograms per liter (ug/l). A composite sample of the groundwater at the subject site indicated a presence of 6 ug/l. Since the groundwater at this site is not used for drinking purposes (public water used), this condition does not pose an imminent health threat or a threat to the environment. Refer to Appendix "D" for comparison of those elements identified in the water and contaminate levels established by either the State of Rhode Island or the United States Environmental Protection Agency.

FINDINGS AND OPINIONS

An Oil and Hazardous Waste Site Assessment was conducted at the manufacturing site situated at 90 Bay Spring Avenue in Barrington, Rhode Island.

The Site has been utilized for manufacturing since it's development in 1912, and encompasses approximately 7.8 acres of land. At this writing, only the easterly portion of the site is used and contains a three-story brick building with a footprint of 35,000 square feet. The westerly portion of the Site was once developed but presently is vegetated over as mostly all of the previous buildings and associated equipment has long since been removed. It is estimated that this portion of the site had it's structures removed approximately 30 to 40 years ago.

Site inspections by Geisser Engineering Corporation indicated the following:

- The main building contains an 8" main steamline along the first floor ceiling and riser pipes which extend from this line and rise up to the second floor to provide heat to the second floor. Both the main and riser pipes are insulated with material which in the opinion of this writer contains asbestos fibers. Portions of these riser pipes are concealed behind wood-boxed in enclosures but the upper reaches of these pipes are open. The insulation on both the main line and riser pipes appears to be in fair condition but contains portions which are not properly wrapped and as such the asbestos fibers can become airborne. It is recommended that these pipes be entirely wrapped or that the asbestos insulation be removed.

The site contains three (3) functioning outdoor pad-mounted electrical transformers which are owned by the Narragansett Electric Company and are located in an enclosure on the easterly sector of the Site, and three non-functioning pad-mounted electrical transformers in an enclosure attached to the exterior west wall of the main building. It is the opinion of this writer that only the three non-functioning transformers are considered polychlorinated biphenyl (PBC) transformers which contain in excess of 50 parts per million of PCB.

- The Site contains both a 5,000-gallon aboveground No. 6 fuel oil tank and a 1,000-gallon underground No. 2 fuel oil tank. The 1,000-gallon tank is registered with the Rhode Island Department Environmental Management (RIDEM). The 5,000 gallon aboveground tank need not be registered. It is the opinion of this writer that the 1,000-gallon oil tank be tested to determine if it has any leaks.

- A former tenant on the first floor, Pilling Manufacturing, has at this writing filed for Chapter 7 Bankruptcy and has left much of it's equipment, raw materials, finished stock, scrap and plating equipment in place. To undertake a complete inventory of this material was outside the scope of this report. In evidence were plating tanks with plating solutions as well as plating salts such as sodium and zinc cyanide. It is the opinion of this writer that hazardous plating solutions and associated plating salts exist

on this first floor which would require special disposal. Recent organizational efforts of these items by Mr. Gilbert Raymond, an official of Pilling Manufacturing have resulted in the palletizing of these products and the disposal of some of the plating solutions. Presently approximately 1,200-gallons of plating solutions still need to be disposed.

- The area occupied by Pilling Manufacturing also contains two floor drain (trough) systems which contain water. One of these is in the plating room and the other is at the metal burnishing (tubbing) station. These systems are connected to a plating rinse and wastewater system that treats all production water prior to discharging the water to the Barrington Public Sewer System. A conversation by this writer with Ms. Vickie Hart of the East Providence Sewer Department which treats Barrington sewage indicated that Pilling Manufacturing was in basic compliance with regulations and had not acted in a manner which would place Pilling in "a non-compliance" status.

- The easterly portion of the Site is at this writing undergoing a general surface cleanup and as such several locations near the main building are piled with debris, brush, concrete, wood debris and rusting barrels. No evidence of oil or hazardous waste was observed at these piles.

- A 4' deep crater approximately 15' x 25' was observed filled with rusty iron debris and discarded clay pipe on the westerly sector of the site. No evidence of oil or hazardous waste was observed at this location (Appendix "B").

- The fill pipe of what may be an underground spent acid tank was observed near monitoring well MW-4. It is the opinion of this writer that this area should be excavated to determine if a tank exists.

- A review of three (3) soil borings and the installation logs of four (4) groundwater monitoring wells (Appendix "C") indicate that no visible evidence of oil or hazardous waste was observed during the drilling operations in the form of odors or materials encountered by the drilling equipment.

- A review of RIDEM Underground Storage Tank and Air and Hazardous Waste related records indicated the 1,000-gallon underground storage tank was properly registered with RIDEM and that an oil spill of approximately 75-gallons occurred at the aboveground tank in 1988. This spill was contained and subsequently cleaned up by the McDonald and Watson Corporation with apparently no damage to human health or the environment.

- The laboratory analysis of subsurface soil and groundwater indicated that elements and compounds found were within tolerable

limits, and as such neither the soil or groundwater samples were considered to be hazardous with on exception. Benzene was identified in the composite groundwater sample as being present at 6 micrograms per liter (almost equal to parts per billion). The maximum benzene which can exist in water that is drinkable is 5 micrograms per liter. This slightly raised benzene level does not constitute an imminent health threat as the Site is served by a public water drinking system.

This report describes the conditions observed by Geisser Engineering Corporation at the study Site. The text presents the observations made during Site reconnaissance and information gathered during site history research, regulatory agency file review and interviews where possible. This report has been prepared in accordance with the Limitations defined by Geisser Engineering Corporation.

LIMITATIONS

This report addresses the physical characteristics of the Site with reference to the release or presence of oil or hazardous materials. This report is not intended to guarantee that this Site is or is not free from conditions, materials or substances which could adversely impact the environment or pose a threat to the public's safety. Rather, this report is to be used as a summary of existing conditions which are based upon reasonable and

knowledgeable review of evidence found in accordance with accepted engineering practices and within the budgetary constraint imposed in the contract between Geisser Engineering Corporation and the client. Should further research on the Site be conducted, the additional data should be reviewed by Geisser Engineering Corporation and the conclusions presented herein may be modified.

This report has been prepared on behalf of and is for the exclusive use of the client solely for use in an environmental evaluation of the Site. As a mutual protection to our client, the public and ourselves, authorization for publication of statements, conclusions or extracts from or regarding this report is reserved pending our written approval. However, Geisser Engineering Corporation acknowledges and agrees that the report may be conveyed to the Seller, Lender or Insurance Company associated with proximate financial transactions concerning the Site by our client.

Geisser Engineering Corporation accepts no responsibility for client performance of recommendations as may be offered in this assessment.

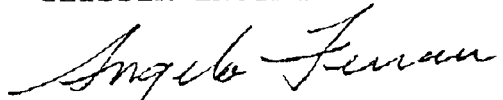
No attempt was made to investigate all regulatory compliances with federal, state and local laws and regulations in connection with the usage of the assessment Site.

Conclusions stated herein refer only to the specific Site investigated. Total liability is limited to the invoiced amount only and shall not include any consequential damages.

We trust that this report will satisfy your current requirements. If you have any questions regarding this report, please do not hesitate to contact us.

Respectfully submitted,

GEISSER ENGINEERING CORPORATION

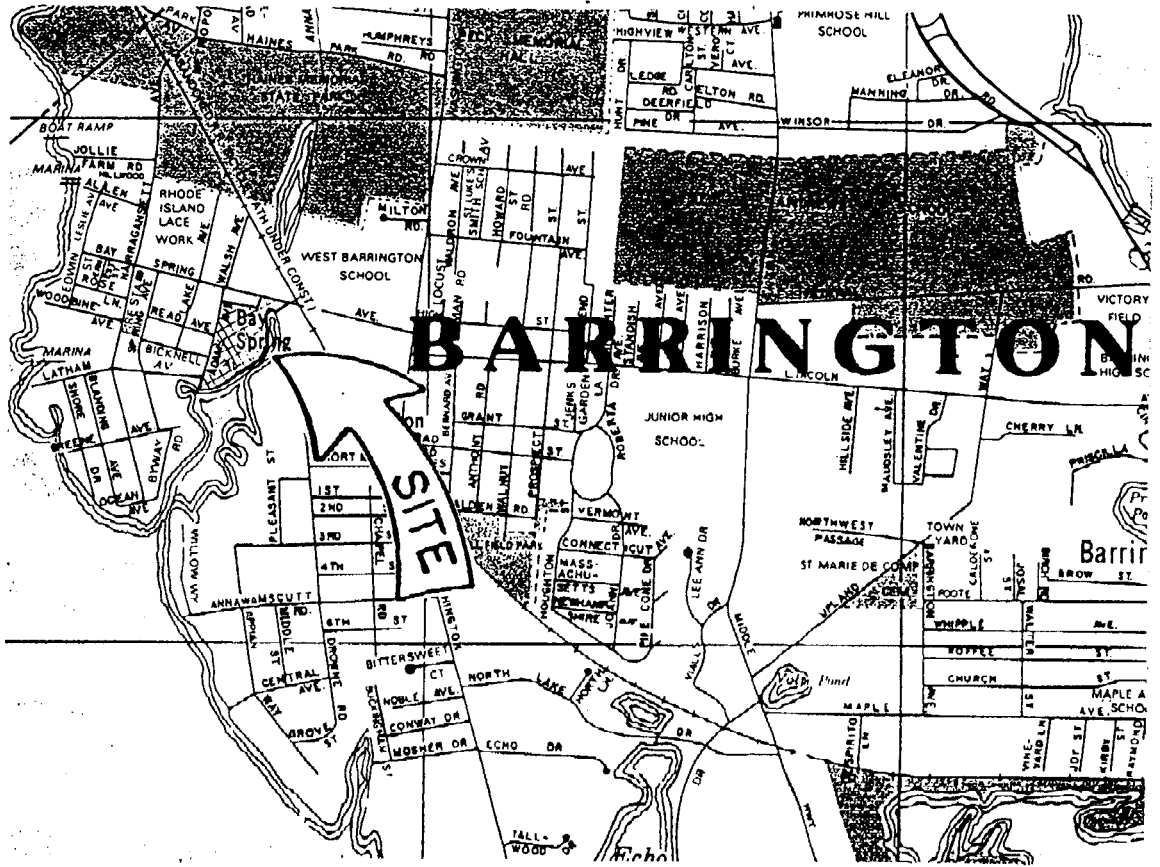


Angelo Ferrari, P.E.
Senior Project Engineer

AF/rac

APPENDIX "A"

N



LOCUS MAP

90 BAY SPRING AVE.
BARRINGTON, RI

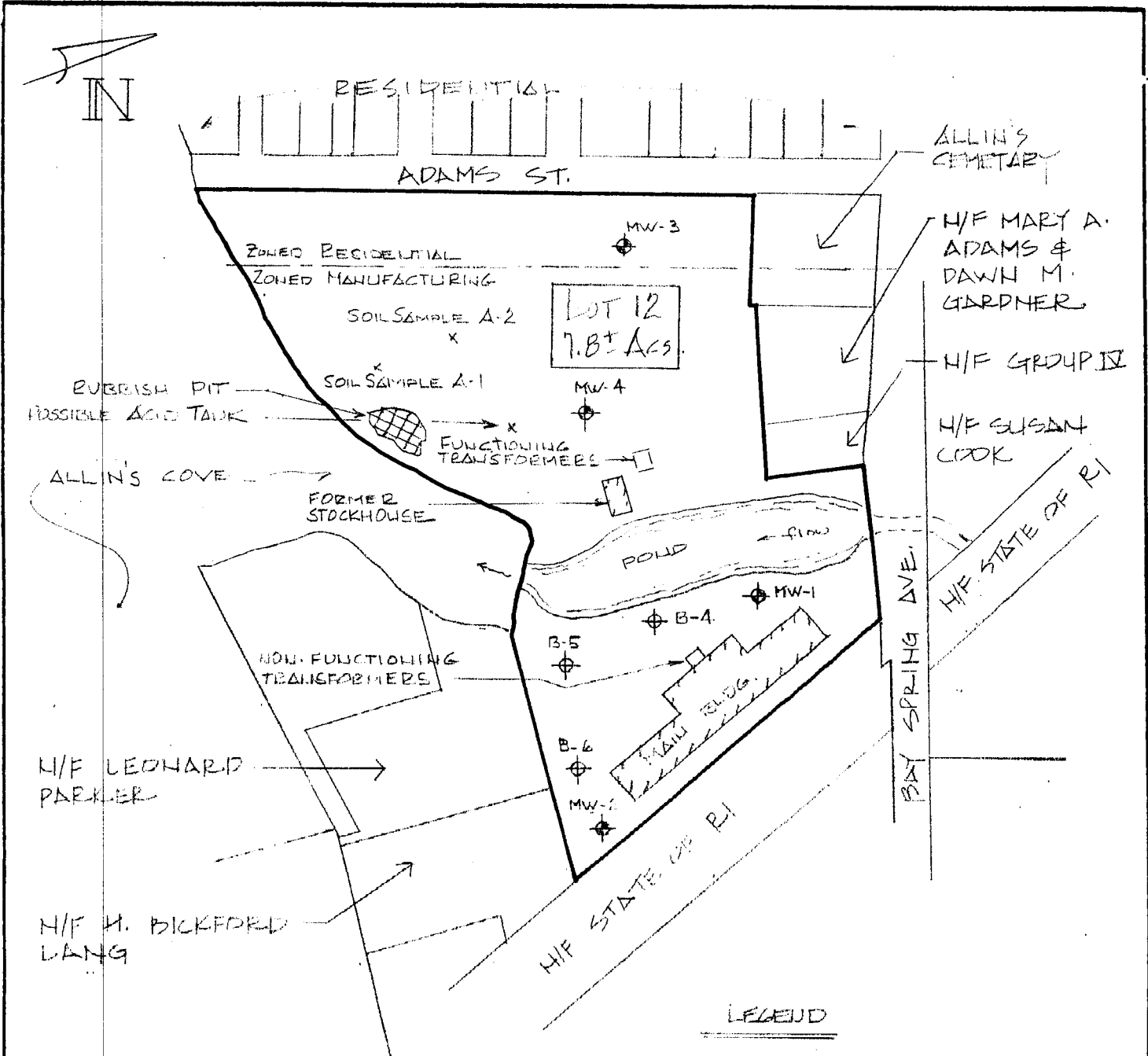
SCALE
M.T.S.

DRAWN BY
REVISED

DATE

APPROVED BY

DRAWING NUMBER
K-053



LEGEND

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

SITE PLAN - PLAT 2 LOT 12		
90 BAY SPRING AVE. BARRINGTON, RI		
FOR: <u>GROUP IV</u>	SCALE <u>N.T.S.</u>	DRAWN BY <u>S. DRAINVILLE</u> REVISED
BY: <u>GEISSER ENGINEERING CORPORATION</u> <u>227 WAMPANOAG TRAIL RIVERSIDE, RI</u>		
DATE <u>10-20-92</u>	APPROVED BY	DRAWING NUMBER <u>K-653</u>

APPENDIX "B"

APPENDIX "C"

<p style="text-align: center;">HAMMER</p> <p>CASING: WT. --- FALL ---</p> <p>SAMPLER: WT. 140 FALL 30</p>	<h2 style="margin: 0;">Allstate Drilling Co.</h2> <p style="margin: 0;">EAST PROVIDENCE, R.I. 02915</p> <p>CLIENT: <u>Group IV</u></p> <p>PROJECT: <u>90 Bay Spring Avenue</u></p>	<p>SHEET <u>1</u> OF <u>1</u></p> <p>LOCATION <u>Barrington</u></p> <p>HOLE NO. <u>MW-1</u></p> <p>LINE & STA. _____</p> <p>OFFSET _____</p>
--	--	--

<p>INSPECTOR: _____</p> <p>DRILLER: <u>R. Cook, Jr.</u></p> <p>HELPER: <u>J. Naismith</u></p>	<p>SAMPLER I. D. <u>1 3/8"</u></p> <p>CASING I. D. _____</p>	<p>ALLSTATE NO. <u>W-653</u></p> <p>DATE, START <u>08/15/92</u></p> <p>DATE, FINISH: <u>08/15/92</u></p>	<p>GROUND ELEVATION _____</p> <p>GROUND WATER DEPTH <u>8.5'</u></p>
---	--	--	---

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NO DEPTHS ELEV FT	TYPE OF SAMPLE	PENETRATION BLOWS PER 6 INCHES	DENSITY OR CONSIST MOISTURE	PROFILE CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOILS, REMARKS	
							REMARKS INCLUDE COLOR GRADATION TYPE OF SOIL ETC ROCK COLOR TYPE CONDITION HARDNESS DRILLING TIME SEAMS ETC	
0		0-2.0	D-1	6-9-10-11	Med. Dense		F-C LT BR SAND AND F-C GRAVEL, little silt and cobbles	
	A							
	U							
	G							
	E							
	R	5-7.0	D-2	12-15-11-14				
	S							
						9.0		
-10		10-12.0	D-3	61-54-39-60	Med. Dense	11.4	F-M LT GREY-BR SAND, tr of silt	
					Very Dense	12.0	F-C DK BR SAND AND F-C GRAVEL, little silt	
		15-17.0	D-4	34-39-42-32	Very Dense	17.0	F-M LT GREY SAND, TR OF F GRAVEL and silt	
-20							End of Boring - 17.0'	
							Installed 15.5' of 2" M.W. pipe with 10.0' of screen and flush mount protector. Bentonite seal at 3.5' to 4.5'	
							3 bags of sand	
-30								
-40								

<p>GROUND SURFACE TO <u>15</u> FT. USED <u>Augers</u> CASING: THEN <u>Installed Well</u></p>		<p>HOLE NO. <u>MW-1</u></p>
<p>Type of Sample</p> <p>D = Dry C = Cored W = Washed</p> <p>UP = Undisturbed Piston</p> <p>TP = Test Pit A = Auger</p> <p>US = Undisturbed Shelby</p> <p>V = Vane Test</p>	<p>Proportions Used</p> <p>trace 0 to 10%</p> <p>little 11 to 20%</p> <p>some 21 to 35%</p> <p>and 36 to 50%</p>	<p>Penetration Resistance</p> <p>140 lb Wt falling 30" on 2" O.D Sampler</p> <p>Cohesionless Density</p> <p>0-4 Very Loose</p> <p>5-9 Loose</p> <p>10-29 Med Dense</p> <p>30-49 Dense</p> <p>50 + Very Dense</p>
		<p>Cohesive Consistency</p> <p>0-2 Very Soft</p> <p>3-4 Soft</p> <p>5-8 M/Stiff</p> <p>9-15 Stiff</p> <p>16-30 V-Stiff</p> <p>31+ Hard</p>
		<p>Summary</p> <p>Earth Boring <u>17.0'</u></p> <p>Rock Coring _____</p> <p>Samples <u>D-4</u></p>

HAMMER

Allstate Drilling Co.

EAST PROVIDENCE, R.I. 02915

SHEET 1 OF 1

LOCATION Barrington

HOLE NO. MW-3

LINE & STA. _____

OFFSET _____

CASING: WT. _____ FALL _____

SAMPLER: WT. 140 FALL 30

CLIENT: Group IV

PROJECT: 90 Bay Spring Avenue

INSPECTOR: _____
 DRILLER: R. Cook, Jr.
 HELPER: D. Cook

SAMPLER I. D. 1 3/8"
 CASING I. D. _____

ALLSTATE NO. W-653
 DATE. START. 08/27/92
 DATE. FINISH: 08/27/92

GROUND ELEVATION _____
 GROUND WATER DEPTH 12.0'

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NO DEPTHS ELEV. FT	TYPE OF SAMPLE	PENETRATION BLOWS PER 6 INCHES	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS. REMARKS
							REMARKS INCLUDE COLOR GRADATION TYPE OF SOIL ETC. POOR COLOR TYPE CONDITION HARDNESS DRILLING TIME SEAMS ETC
0		0-2.0	D-1	3-4-5-5		1.0	Topsoil
						1.7	Subsoil
					Med. Dense		F-C LT BR SAND, TR OF F GRAVEL, tr of silt.
		5-7.0	D-2	5-6-6-7		6.0	
					Med. Dense		F-M LT BR SAND, tr of silt
-10		10-12.0	D-3	7-8-8-10		14.0	
		15-17.0	D-4	6-9-8-9	Very Stiff		Lt br silt
-20						20.0	
							End of Boring - 20.0'
							Installed 18.0' of 2" M.W. pipe with 10.0' of screen and flush mount protector. Bentonite seal at 6.0' to 7.0'
							3 bags of sand
-30							
-40							

GROUND SURFACE TO 20.0 FT. USED Augers CASING: THEN Installed Well HOLE NO. MW-3

Type of Sample
 D = Dry C = Cores W = Washed
 UP = Undisturbed Piston
 TP = Test Pit A = Auger
 US = Undisturbed Shelby
 V = Vane Test

Proportions Used
 trace 0 to 10%
 little 11 to 20%
 some 21 to 35%
 and 36 to 50%

Penetration Resistance
 140 lb Wt falling 30" on 2" O.D. Sampler
 Cohesionless Density
 0-4 Very loose
 5-9 Loose
 10-29 Med Dense
 30-49 Dense
 50 + Very Dense

Cohesive Consistency
 0-2 Very Soft
 3-4 Soft
 5-8 M/Stiff
 9-15 Stiff
 16-30 V-Stiff
 31 + Hard

Summary
 Earth Boring 20.0'
 Rock Coring _____
 Samples D-4

HAMMER

Allstate Drilling Co.

EAST PROVIDENCE, R.I. 02915

SHEET 1 OF 1

LOCATION Barrington

HOLE NO. B-1

LINE & STA. _____

OFFSET _____

CASING: WT. ____ FALL ____

SAMPLER: WT. 140 FALL 30

CLIENT: Group IV

PROJECT: 90 Bay Spring Avenue

INSPECTOR: _____

DRILLER: R. Cook, Jr.

HELPER: D. Cook

SAMPLER I. D. 1 3/8"

CASING I. D. _____

ALLSTATE NO. W-653

DATE, START 08/27/92

DATE, FINISH: 08/27/92

GROUND ELEVATION _____

GROUND WATER DEPTH 3.8'

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NO. DEPTHS ELEV. FT.	TYPE OF SAMPLE	PENETRATION BLOWS PER 6 INCHES	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS. REMARKS
							REMARKS INCLUDE COLOR GRADATION TYPE OF SOIL ETC. ROCK COLOR TYPE CONDITION HARDNESS DRILLING TIME SEAMS ETC.
0		0-2.0	D-1	2-3-3-3		1.0	Topsoil
		2-4.0	D-2	2-4-4-5	Loose		F-M LT-DK BR SAND, LITTLE F GRAVEL, tr of silt, asphalt, brick-fill
						4.0	F-C DK BR SAND, TR OF F GRAVEL, tr of silt, brick, root, material fill
-10							End of Boring - 4.0'
-20							
-30							
-40							

GROUND SURFACE TO 4.0 FT. USED N/A CASING, THEN Sample Spoon HOLE NO. B-4

Type of Sample
 D = Dry C = Cored W = Washed
 UP = Undisturbed Piston
 TP = Test Pit A = Auger
 US = Undisturbed Shelby
 V = Vane Test

Proportions Used
 trace 0 to 10%
 little 11 to 20%
 some 21 to 35%
 and 36 to 50%

Penetration Resistance
 140 lb Wt falling 30" on 2" O.D. Sampler
 Cohesionless Density
 0-4 Very Loose
 5-9 Loose
 10-29 Med Dense
 30-49 Dense
 50 + Very Dense

Cohesive Consistency
 0-2 Very Soft
 3-4 Soft
 5-8 M/Stiff
 9-15 Stiff
 16-30 V-Stiff
 31+ Hard

Summary
 Earth Boring 4.0'
 Rock Coring D-2
 Samples _____

APPENDIX "D"



R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Geisser Engineering
Attn: Mr. Angelo Ferrari
227 Wampanoag Trail
Riverside, RI 02915

DATE RECEIVED: 10/05/92
DATE REPORTED: 10/26/92
P.O. #:
INVOICE #: E5835

SAMPLE DESCRIPTION: Two (2) soil samples and one (1) groundwater sample from Base Spring, Barrington (K-653)

Subject samples have been analyzed by our laboratory with the attached results.


Reference: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, U.S. EPA, SW-846, December 1987, second edition.


Guidelines Establishing Testing Procedures For The Analysis of Pollutants, 40CFR, Part 136, July 1986.

TCLP Procedure, Federal Register, Vol. 55, No. 126, Friday, June 29, 1990.

If you have any questions regarding this work or if we may be of further assistance, please contact us.

Approved By:


Michael S. Rose
Laboratory Manager


Anthony E. Perrotti
President

gei:cmc

CERTIFICATE OF ANALYSIS

Geisser Engineering

DATE RECEIVED: 10/05/92

INVOICE #: E5835

DATE REPORTED: 10/26/92

P.O. #:

PARAMETER	ACCEPTABLE STANDARD ¹	GROUNDWATER (MW #1,2,3,&4)	SAMPLE #1 SOIL	SAMPLE #2 SOIL-ACID TANK LOCATION MW-1, A-1, A-2
Total Petroleum Hydrocarbons	100 mg/kg ²	<2.40 mg/l	47.1 mg/kg*	94.1 mg/kg*
Metals (Soluble):				
Arsenic	.050 mg/l	<0.005 mg/l	----	----
Barium	1.0 mg/l	<0.20 "	----	----
Cadmium	.01 mg/l	<0.01 "	----	----
Chromium	.05 mg/l	<0.03 "	----	----
Lead	.05 mg/l	<0.04 "	----	----
Mercury	.002 mg/l	<0.0005 "	----	----
Selenium	.01 mg/l	<0.005 "	----	----
Silver	.05	<0.02 "	----	----

**Toxicity Characteristic
Leaching Procedures:**

Metals:

Arsenic	5.0 mg/l	----	<0.005 mg/l	<0.005 mg/l
Barium	100.0 mg/l	----	0.35 "	<0.20 "
Cadmium	1.0 mg/l	----	<0.01 "	<0.01 "
Chromium	5.0 mg/l	----	<0.03 "	<0.03 "
Lead	5.0 mg/l	----	0.04 "	0.12 "
Mercury	.2 mg/l	----	<0.0005 "	<0.0005 "
Selenium	1.0 mg/l	----	<0.005 "	<0.005 "
Silver	5.0 mg/l	----	<0.02 "	<0.02 "

* Calculated on dry weight basis.

1 Acceptable Standard values added to this report by Geisser Engineering Corp.

2 Rhode Island general guideline level. All other Standard values are USEPA values.

RI ANALYTICAL LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

Geisser Engineering
 DATE RECEIVED: 10/05/92
 DATE REPORTED: 10/26/92

INVOICE #: E5835
 P.O. #:

ACCEPTABLE
 USEPA
 STANDARD¹

PARAMETER	GROUNDWATER (MW#1,2,3&4)	SAMPLE #1	SAMPLE #2	SOIL
		SOIL	SOIL-ACID TANK LOCATION MW-4, A-1, A-2	
Polychlorinated Biphenyls (Method #608/8080):				
Aroclor-1016	<1.0 µg/l	<0.1 mg/kg*	<0.1 mg/kg*	25 mg/kg ²
Aroclor-1221	<1.0 "	<0.1 "	<0.1 "	25 mg/kg
Aroclor-1232	<1.0 "	<0.1 "	<0.1 "	25 mg/kg
Aroclor-1242	<1.0 "	<0.1 "	<0.1 "	25 mg/kg
Aroclor-1248	<1.0 "	<0.1 "	<0.1 "	25 mg/kg
Aroclor-1254	<1.0 "	<0.1 "	<0.1 "	25 mg/kg
Aroclor-1260	<1.0 "	<0.1 "	<0.1 "	25 mg/kg
Volatile Organic Compounds (Method 601/602 and 8010/8020):				
				GROUNDWATER
1,2-dichloroethane	3 µg/l	ND	ND	5 ug/l
1,1,1-trichloroethane	12 "	ND	ND	200 ug/l
benzene	6 "	ND	ND	5 ug/l
toluene	90 "			2000 ug/l
Detection Limit:	1 µg/l	1 mg/kg	1 mg/kg	

* Calculated on dry weight basis.

- 1 Acceptable Standard values added to this report by Geisser Engineering Corporation.
- 2 Clean-up level for low contact outdoor area soil.

Note: A list of volatile organic compounds tested is attached.

RI ANALYTICAL LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

Geisser Engineering
DATE RECEIVED: 10/05/92
DATE REPORTED: 10/26/92

INVOICE #: E5835
P.O. #

Volatile Organic Compounds
Method #601/602 & 8010/8020

chloromethane
bromomethane
vinyl chloride
dichlorodifluoromethane
chloroethane
methylene chloride
trichlorofluoromethane
1,1-dichloroethylene
1,1-dichloroethane
trans-1,2-dichloroethylene
chloroform
1,2-dichloroethane
1,1,1-trichloroethane
carbon tetrachloride
bromodichloromethane
1,2-dichloropropane
cis-1,3-dichloropropylene
trichloroethylene
trans-1,3-dichloropropylene
1,1,2-trichloroethane
dibromochloromethane
bromoform
tetrachloroethylene
1,1,2,2-tetrachloroethane
chlorobenzene
2-chloroethyl vinyl ether
dichlorobenzenes
benzene
toluene
ethylbenzene
xylenes

R.I. ANALYTICAL LABORATORIES, INC.

6/03

R849



GEORGE J. GEISSER, JR., P.E.
GEORGE J. GEISSER, III, P.E.
NORMAN R. PAQUETTE, P.E.
1921-1985

Geisser Engineering Corporation

Consulting Engineers

227 Wampanoag Trail
Riverside, R.I. 02915
(401) 438-7711
Fax # (401) 438-0281

June 30, 2003

GA Groundwater

Mr. David Malkin
Real Estate Investment
150 Chestnut Street
Providence, RI 02903

RE: Test pits on Bay Spring Street Property

Dear David:

Were sorry for not submitting this report at an earlier date but our office situation of late has been full such that we are also working evenings at home to reduce our backlog.

On May 30, 2003 we excavated four (4) test pits to depths of from 3' to 8' and retrieved five (5) soil samples from depths of 18" to 7', not only from the test pits but also from shovel-dug hand excavations, in order to analyze the soil for the "RCRA 8" metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), and Total Petroleum Hydrocarbons (oil-based petroleum) substances. The soil samples were analyzed and compared to the RIDEM Direct Exposure Criteria standards. Refer to the enclosed map for the locations of the test pits and the laboratory certificate of analysis. The laboratory analysis results are listed in the enclosed Table I.

Soil samples S-1 and S-2, both at a depth of 18", were taken from hand-shoveled holes and were composited and the single sample was analyzed for the presence of "RCRA 8" metals. Sample S-1 was a sandy loam in an area used as a tank farm for the storage of solvents. Sample S-2 was also a sandy loam from an area also used as a tank farm for the storage of acid. Only the concrete tank cradles remain as there is no evidence of any remaining tanks which in our opinion have long since been removed.

Test pit TP-1 consisted of 2' of topsoil and 4' of gray sand with a trace of vitrified clay, wood, and brick. Soil sample S-3 at a depth of 4' was taken and also analyzed for the presence of "RCRA 8" metals.

Test pit TP-2 was excavated along the westerly side of the formerly existing pickle building and consisted of 8' of sandy fill comprised of assorted metal, wood and brick. A small portion of the concrete floor of this building was uncovered. Soil sample S-4 from a depth of 7'

from this location was analyzed for the presence of both "RCRA 8" metals and Total Petroleum Hydrocarbons.

Test pit TP-3 consisted of 1' of top soil and loam and 4' of sand with rock and ledge fragments. The excavation stopped at 5' due to the ledge. No soil samples was taken at this location.

Test Pit TP-4 was excavated to the south of the acid pit area and a slurry and watery liquid was observed approximately 3' below the surface. It appeared this liquid was being fed from surrounding clay pipes. No sample was taken from this location.

Soil sample S-5 was taken from a hand-shoveled hole 18" deep near the northerly portion of the site in an area formerly housing a small building (no longer existing) for the storage of nitrated cotton. Only the concrete slab for this storage building remains.

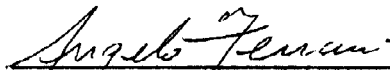
As the test pits indicate, the likelihood of finding buried miscellaneous metal, wood and assorted building debris and piping throughout much of the site is high. Test pit TP-4 uncovered a solution of a undetermined nature, most probably a waste slurry.

The laboratory analysis indicates that only arsenic was observed in a concentration higher than the allowable limit. Arsenic is very prevalent in Rhode Island at higher limits than the allowable and as such more analysis of the sites soil should be conducted to determine if the arsenic is naturally occurring or is a waste product.

It is our opinion that the site can be developed with the understanding that underlying debris throughout portions of the site must either be removed or any proposed structures must be supported on piles. The development of this site will depend on finding and taking into account these fill areas.

Due to the presence of arsenic at or above 24" below the surface, certain developed areas will need to be overlain with asphalt or rendered inaccessible. In addition, it would seem likely that during the course of construction activities, laboratory analysis of additional soil samples would be needed to characterize any suspicious material.

Sincerely,



Angelo Ferrari, Pjt. Engineer

*Arsenic
BOKay*

*Arsenic
over*

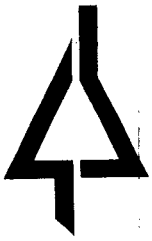
TABLE I
 LABORATORY ANALYSIS REPORT
 (mg/kg)
 (Exceeded Concentrations are **Bold**)

PARAMETER	RESIDENTIAL RIDEM DIRECT EXPOSURE LIMIT	S-1 @18" & S-@ 18"2	S-3 @ 4"	S-4 @ 7"	S-5 @18"
<u>METALS</u>					
ARSENIC	1.7 7.0	2.3	1.9	17	NT
BARIUM	5500	39	95	510	NT
CADMIUM	39	<0.27	<0.34	2.5	NT
CHROMIUM	Hex 390 Tri = 1400	2.7	2.1	47	NT
LEAD	150	59	67	950	NT
MERCURY	23	0.58	0.41	0.27	NT
SELENIUM	390	<11	<14	<12	NT
SILVER	200	<1.1	<1.4	1.2	NT
<u>TOTAL PETROLEUM HYDRO- CARBONS</u>	550	NT	NT	530 <i>close</i>	<25

RCPA 8 typ.
 does not
 disting. Hex
 from Tri.

Right next
 to bldg.
 - Lead paint?
 - Lead pipes?

NT .. NOT TESTED



R.I. Analytical

Specialists in Environmental Services

1 of 5

CERTIFICATE OF ANALYSIS

Geisser Engineering Inc.
Attn: Mr. Angelo Ferrari
227 Wampanoag Trail
Riverside, RI 02915

Date Received: 05/30/2003
Date Reported: 06/06/2003
P.O. #:
Work Order #: 0305-07224

DESCRIPTION R-849 BAY SPRING AVE (FOUR SOIL SAMPLES)

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

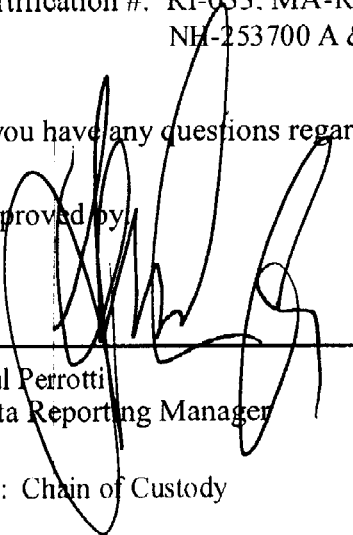
Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:



Paul Perrotti
Data Reporting Manager

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Geisser Engineering Inc.

Date Received: 05/30/2003

Work Order #: 0305-07224

Approved by: _____

R.I. Analytical

Sample #: 001

SAMPLE

S-1/S-2 @ 18" COMPOSITE 05/30/03

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL METALS						
ARSENIC 7	2.3	0.54	mg/kg dry	SW-846 6010	06/04/2003	JNB
BARIUM 5500	39	0.27	mg/kg dry	SW-846 6010	06/04/2003	JNB
CADMIUM 39	<0.27	0.27	mg/kg dry	SW-846 6010	06/04/2003	JNB
CHROMIUM 390	2.7	1.6	mg/kg dry	SW-846 6010	06/04/2003	JNB
LEAD 150	59	2.2	mg/kg dry	SW-846 6010	06/04/2003	JNB
MERCURY 23	0.58	0.25	mg/kg dry	SW-846 7471A	06/03/2003	SM
SELENIUM 390	<11	11	mg/kg dry	SW-846 6010	06/04/2003	JNB
SILVER 200	<1.1	1.1	mg/kg dry	SW-846 6010	06/04/2003	JNB

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Geisser Engineering Inc.
 Date Received: 05/30/2003
 Work Order #: 0305-07224

Approved by: _____

R.I. Analytical

Sample #: 002

SAMPLE

S-3 @ 4' (TP-1) GRAB 05/30/03 @0930

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL METALS						
ARSENIC 7	1.9	0.68	mg/kg dry	SW-846 6010	06/04/2003	JNB
BARIUM 5500	95	0.34	mg/kg dry	SW-846 6010	06/04/2003	JNB
CADMIUM 39	<0.34	0.34	mg/kg dry	SW-846 6010	06/04/2003	JNB
CHROMIUM 390	2.1	2.0	mg/kg dry	SW-846 6010	06/04/2003	JNB
LEAD 150	67	2.7	mg/kg dry	SW-846 6010	06/04/2003	JNB
MERCURY 23	0.41	0.25	mg/kg dry	SW-846 7471A	06/03/2003	SM
SELENIUM 390	<14	14	mg/kg dry	SW-846 6010	06/04/2003	JNB
SILVER 200	<1.4	1.4	mg/kg dry	SW-846 6010	06/04/2003	JNB

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Geisser Engineering Inc.
Date Received: 05/30/2003
Work Order #: 0305-07224

Approved by: _____
R.I. Analytical

Sample #: 004
SAMPLE S-5 @18" GRAB 05/30/03 @1100

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TPH IR 1000	<25	25	mg/kg dry	EPA 418.1	06/04/2003	CCP

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
 Warwick, RI 02888
 Phone: (401) 737-8500
 Fax: (401) 738-1970

131 Coolidge Street Bldg 2
 Hudson, MA 01749
 Phone: (978) 568-0041
 Fax: (978) 568-0078

CHAIN OF CUSTODY RECORD

Page 1 of 1

Container Type Codes: P=Plastic G=Glass AG=Amber Glass O=Other (describe)	Preservative Codes: NP=Non preserved I=Cooled 4°C N=Nitric M=Methanol	Matrix Codes: GW=Groundwater WW=Wastewater DW=Drinking Water O=Other (describe)
Matrix Codes: S=Soil SI=Sludge A=Air B=Bulk/Solid		

Date Collected	Time Collected	Sample ID	G=Grab C=Comp.	Containers # + (code)	Preservative (code)	Matrix (code)	Analysis Request
5/30	7:40	S-1 @ 18"	C	2G	NP	S	RCRA 8 metals *
	8:30	S-2 @ 18" > combine					
	9:30	S-3 @ 4' (TP-1)	G	1G	NP	S	RCRA 8 metals *
	10:15	S-4 @ 7' (TP-2)	G	1G	NP	S	RCRA 8 metals, TPH (IR) *
	11:00	S-5 @ 18"	G	1G	NP	S	TPH (IR) *

Client Information

Company Name: Geisser Eng'g Corp

Address: 297 Wampadoc Trail

City / State / Zip: Riverside, RI 02915

Phone: 438-7711 Fax: 438-0281

Contact: ANGELO FEZZAREL

Project Information

Project Name / Location: R-849 Bay Spring Ave

P.O. Number: _____ Project Number: _____

Report To: _____ Phone: _____ Fax: _____

Sampled by: A. Fenani

Reference Proposal: _____

Relinquished by:	Date	Time	Received by:	Date	Time
<u>Angelo Fenani</u>	<u>5/30/03</u>	<u>4:20</u>	<u>M. Serrano</u>	<u>5/30/03</u>	<u>16:05</u>

Turn Around Time:
 Normal
 5 business days
 Surcharges may apply
 Rush _____ (business days)

RIAL USE ONLY:
 Pick-Up Only
 RIAL Sampled
 Shipped on Ice
 RIAL W.O. # 0305-7224

Project Comments:
* USE RIDEEM DIRECT EXPANSURE CRITERIA

1/95

UPDATE - ENVIRONMENTAL REPORT

FOR
LAND AND BUILDING AT
90 BAY SPRING AVENUE
IN
BARRINGTON, RHODE ISLAND

FOR
GATEHOUSE GROUP
JANUARY 12, 1995

GEISSER ENGINEERING CORPORATION
CONSULTING ENGINEERS
227 WAMPANOAG TRAIL
RIVERSIDE, RHODE ISLAND
PROJECT NO. M-318

INTRODUCTION

The purpose of this update report is to address any significant environmental changes or site conditions which may have occurred at the subject site (90 Bay Spring Avenue in Barrington, Rhode Island) since the completion of Geisser Engineering Corporation's report for the site titled "Phase II Oil and Hazardous Waste Assessment for Land and Building at 90 Bay Spring Avenue in Barrington, Rhode Island for Group IV, November 20, 1992".

This update report is limited to possible changes subsequent to November 20, 1992 and will report on findings based on: (1) One or more inspections of the site and surrounding properties; (2) review of Barrington Tax Assessor's Records; (3) review of the Rhode Island Department of Environmental Management's (RIDEM) files and (4) an interview with David Malcolm a spokesman for Bay Spring Realty Company which owns the property. A review of the November 20, 1992 report should be made in conjunction with the review of this update report.

REVIEW OF TAX ASSESSOR'S RECORDS

On December 27, 1995, this writer reviewed Barrington's tax assessor's records for changes of ownership to the property. The records indicated that the site is presently owned by the Bay Spring Realty Company which acquired the site from Bay Spring Realty in 1992 after the publication of the Phase II report.

SITE INSPECTION

On January 2 and 9, 1996, this writer conducted inspections of the site and abutting properties. On January 2, this writer was accompanied by the aforementioned Mr. Malcolm. The building consists of three stories. The second and third floors contain less area than the floor beneath them. In total the building contains approximately 78,000 square feet. The building does not have a basement. The first floor is approximately four (4) feet lower than the ground surface at the exterior of the building and is referred to as the first floor. The tenants renting space in the building at the time of the inspections were as follows.

First Floor

1. Barnon, Inc. - This is a one-person mail order company that is involved in a business which supplies skin care and associated lotion products and occupies approximately 2,000 square feet.
2. Hills Auto - This is an auto repair business which occupies approximately 3,000 square feet. There are no fuel storage tanks associated with this business.
3. The remainder of the first floor was empty. This empty area was the area which was formerly utilized by Pilling Chain (See original Phase II Site Assessment Report). All machinery, plating tanks and miscellaneous debris has been removed. The area has been totally cleaned and no debris, equipment or trash was observed.

Lead?

The overhead 8" steamline that spans the entire length of the first floor and in all probabilities is insulated with asbestos is still in existence.

Second Floor

1. Rainbow Seating - This company occupies approximately 20,000 square feet, has less than 5 employees and makes wooden frames for upholstery such as chairs, sofas and settees in addition to covering and stuffing upholstery cushions. This is a very small operation. A minimal of paint (approximately 6 gallons) was observed.
2. Viking - This company installs insulation in the form of pipe coverings and flat batts. The pipe insulation is cut, shaped and otherwise fabricated on premises for installation at job sites. This is a one person operation which is almost entirely hand performed. Viking rents approximately 5,000 square feet of space.

As with the 8" steam line on the first floor, the steam piping on this floor reported in the Phase II report is still in existence.

Third Floor

This floor was the former location of two tenants, one being "The Forgotten Garden" and the other "L. Giorgio - Cabinetmaker". The Forgotten Garden was a two employee furniture restoration and antique warehouse. L. Giorgio was a

cabinetmaker who operated a small custom cabinet woodmaking shop. These tenants are no longer at the site. Their former locations are strewn with litter such as scrap wood, cardboard, papers, plastic and glass bottles and six gallons of paint. No oil or hazardous waste was observed in this area.

An inspection of the boiler room on the first floor indicated that all conditions appeared normal. No equipment including the boiler was in operation. All appeared normal at the aboveground enclosed No. 6 fuel oil storage tank.

The ~~2,000~~^{1,000} gallon underground No. 2 fuel oil tank which previously supplied fuel to heat the now-removed plating tanks used by Pilling Chain is still in existence.

A walk-around of the exterior portion of the site and abutting properties indicated no visible change from conditions noted in 1992 with one exception. A previously existing two-story wood-framed industrial building located at 85 Bay Spring Avenue (across Bay Spring Avenue) from the site was totally destroyed by fire in the Summer of 1995. This site is now empty.

No surficial evidence was found during the inspection of the interior of the building or external walk-around to indicate any uncontrolled release of fuel or hazardous waste at the site.

INTERVIEW WITH DAVID MALCOLM

On December 20, 1995 this writer conducted a telephone interview with Mr. David Malcolm an agent for the owner. Mr. Malcolm indicated that no major happenings have occurred at the site with the exception of removal of all equipment used by "Pilling Chain" (former tenant) and the change in tenant base. At this writing approximately 48,000 square feet of the building is vacant.

REVIEW OF RIDEM RECORDS

On December 12, 1995, this writer reviewed RIDEM's Cercla (Comprehensive Environmental Response, Compensation and Liability Act) Files for listed sites. The Cercla File is an automated inventory developed by the Federal Environmental Protection Agency (EPA) of potential waste sites in Rhode Island at which there is some reason to believe a release, illegal disposal activity or illegal storage of hazardous waste has occurred, any of which may cause the site to be included on the Superfund Cleanup List. A review of this file indicated that there are no Cercla sites within a one-mile radius of the assessment site.

A review of underground storage tank (UST) records of RIDEM maintained by the UST Section indicates that there are no known UST which have been registered since November 1922. The UST Section also maintains a log of all fuel spills which are reported

to RIDEM. A review of these records by this writer indicate that since November 1922, no spills were reported to RIDEM which have negatively impacted the subsurface soil or groundwater at the subject site.

OPINIONS AND CONCLUSIONS

Based on inspections of the site and abutting properties, an interview with an agent of the owners, and a review of environmental files of the Rhode Island Department of Environmental Management (RIDEM), it is our opinion that environmental conditions at the subject site have not been downgraded or changed for the worst since the preparation of a Phase II Oil and Hazardous Waste Assessment was prepared for the site on November 20, 1992. Geisser Engineering Corporation concludes that further inspection of the site for the purpose of oil or hazardous waste is not warranted at this time.

This report describes the conditions observed by Geisser Engineering Corporation at the study site. The text presents the observations made during site reconnaissance and information gathered during site history research, regulatory agency file review and interviews. This report has been prepared in accordance with the Limitations defined by Geisser Engineering Corporation.

LIMITATIONS

This report addresses the physical characteristics of the Site with reference to the release or presence of oil or hazardous materials. This report is not intended to guarantee that this Site is or is not free from conditions, material or substances which could adversely impact the environment or pose a threat to the public's safety. Rather, this report is to be used as a summary of existing conditions which are based upon reasonable and knowledgeable review of evidence found in accordance with accepted engineering practices and within the budgetary constraint imposed in the contract between Geisser Engineering Corporation and the client. Should further research on the Site be conducted, the additional data should be reviewed by Geisser Engineering Corporation and the conclusion presented herein may be modified.

This report has been prepared on behalf of and is for the exclusive use of the client solely for use in an environmental evaluation of the Site. As a mutual protection to our client, the public and ourselves, authorization for publication of statements, conclusions or extracts from or regarding this report is reserved pending our written approval. However, Geisser Engineering Corporation acknowledges and agrees that the report may be conveyed to the Seller, Lender or Insurance Company associated with proximate financial transactions concerning the Site by our client.

Geisser Engineering Corporation accepts no responsibility for client performances of recommendations as may be offered in this assessment.

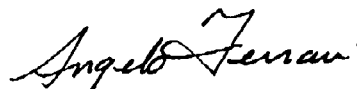
No attempt was made to investigate all regulatory compliances with federal, state and local laws and regulations in connection with the usage of the assessment Site.

Conclusions stated herein refer only to the specific Site investigated. Total liability is limited to the invoiced amount only and shall not include any consequential damages.

We trust that this report will satisfy your current requirements. If you should have any questions or we can be of further assistance to you, please do not hesitate to contact us.

Very truly yours,

GEISSER ENGINEERING CORPORATION



Angelo Ferrari, P.E.
Senior Project Engineer

AF/rac

APPENDIX D


Drill Logs

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 2.2 Orange/Brown medium to coarse grained SAND, moderately well sorted, some gravel present			Native Backfill
	60%		2.2 - 5.0 Brown medium grained SAND, well sorted			Bentonite
5			5.0 - 7.1 Brown medium grained SAND, well sorted, coarsening downwards			
	76%		7.1 - 7.6 Brown medium to coarse grained SAND, well sorted, homogeneous			
			7.6 - 10.0 Brown medium grained SAND, well sorted, homogeneous, fining downwards			
10			10.0 - 13.0 Brown medium grained SAND, well sorted, homogeneous			#2 Silica Sand
	60%		13.0 - 14.2 Brown medium grained SAND, well sorted, homogeneous, coarsening downwards			
			14.2 - 15.0 Gray/Brown tightly packed CLAY			2 in Sch 40 PVC Riser/10 Slot
15						

 Apparent water level during drilling  Laboratory analytical sample

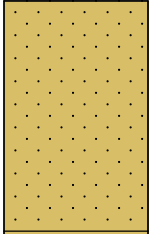
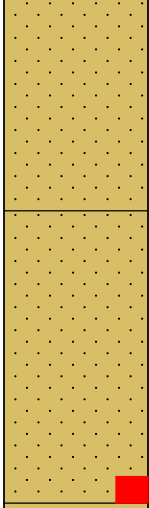
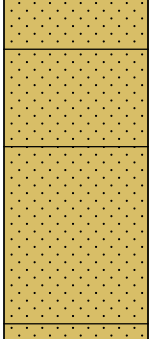
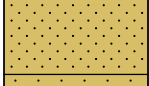
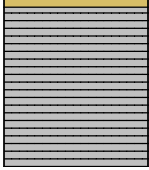
NOTES:

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 2.6 Brown medium to coarse grained SAND, moderately well sorted, some gravel present			
50%	2.6 - 5.0 Brown medium to coarse grained SAND, moderately well sorted, some gravel present, fining downwards					
5			5.0 - 8.3 Brown medium to coarse grained SAND, moderately well sorted, some gravel present, some oxidation present	0.0		
66%	8.3 - 8.9 Gray fine to medium grained SAND, well sorted		0.1			
10			8.9 - 10.0 Dark gray/Black fine to medium grained SAND, well sorted	2.2		
100%	10.0 - 12.0 Dark gray/Black fine to medium grained SAND, well sorted					
			12.0 - 13.0 Gray fine to medium grained SAND, well sorted			
			13.0 - 13.2 Brown medium to very coarse grained SAND			
15			13.2 - 15.0 Gray/Brown tightly packed CLAY			

 Apparent water level during drilling  Laboratory analytical sample

NOTES: Sample at 8.3 feet for VOCs by EPA Method 8260

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 1.9 Dark brown medium grained SAND, rich in organic matter (roots)			Native Backfill
			1.9 - 5.0 Light brown medium to coarse grained SAND, moderately well sorted, homogeneous			Bentonite
	80%		5.0 - 5.7 Dark gray medium to coarse SAND, well sorted	0.0		
			5.6 - 6.6 Light brown fine to medium SAND, moderately well sorted	57.1		
	74%		6.6 - 8.7 Brown medium to coarse grained SAND, moderately well sorted, some gravel present			
			8.7 - 10.0 Brown fine grained SAND, well sorted, homogeneous	0.4		
10			10.0 - 15.0 Brown medium to coarse grained homogeneous SAND, well sorted			#2 Silica Sand
15						2 in Sch 40 PVC Riser/10 Slot



Apparent water level during drilling



Laboratory analytical sample

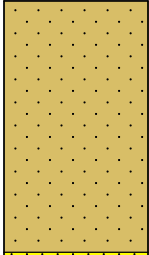


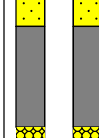


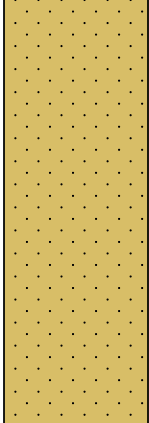
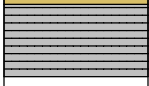
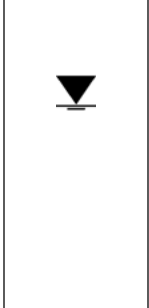
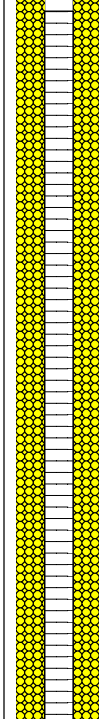

NOTES: Sample at 5.5 feet for VOCs by EPA Method 8260

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 2.5 Gray medium to coarse grained SAND, homogeneous, coarsening downwards			Native Backfill
			2.5 - 2.8 Dark non-soil material, plastic-like, appears to have threads present			Bentonite
			2.8 - 3.8 Brown medium to coarse SAND, well sorted, homogeneous	4.8		
			3.8 - 5.0 Light brown fine to medium SAND, well sorted, homogeneous, fining downwards			
5			5.0 - 9.3 Gray medium to coarse SAND, well sorted, homogeneous			
			9.3 - 10.0 Gray CLAY, tightly packed			
10						#2 Silica Sand
				3.0		2 in Sch 40 PVC Riser/10 Slot



Apparent water level during drilling



Laboratory analytical sample


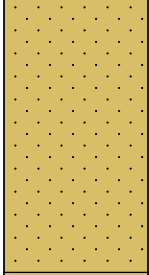
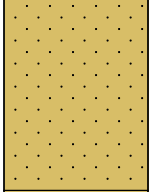
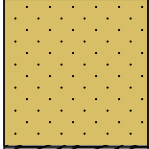
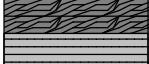
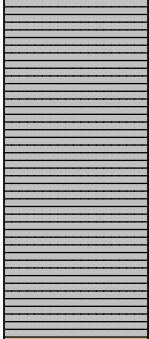

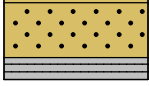

NOTES:

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 0.8 Dark brown organic rich topsoil, some roots present			
			0.8 - 3.3 Dark brown medium to coarse grained SAND, some gravel present			
	40%					
			3.3 - 5.0 Light brown medium grained SAND, some gravel present	0.0		
5			5.0 - 6.3 Dark brown medium to coarse grained SAND, some roots and gravel present, poorly sorted			
			6.3 - 6.7 Broken concrete			
	60%					
			6.7 - 10.0 Brown CLAY, very tightly packed	0.4		
10			10.0 - 10.8 Dark brown medium to coarse grained SAND, poorly sorted			
	100%					
			10.8 - 11.3 Gray coarse grained SAND, poorly sorted			
			11.3 - 11.5 Gray CLAY, tightly packed			



Apparent water level during drilling



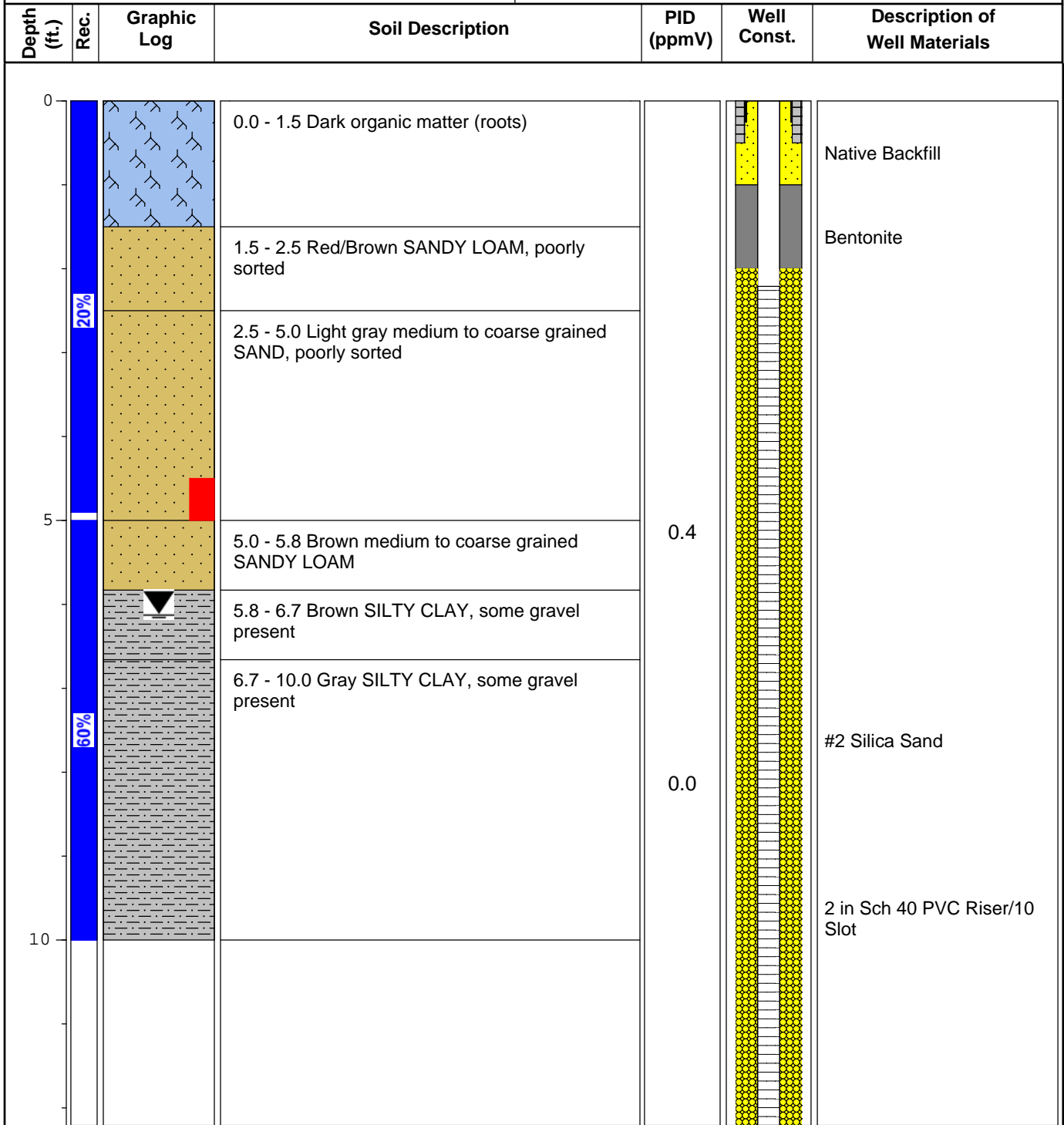
Laboratory analytical sample

NOTES: Refusal at 11.5

PROJECT INFORMATION

 PROJECT: Donegan, Barrington
 PROJECT NO.: 7131
 LOCATION: 90 Bay Spring Avenue
 LOGGED BY: Daniel Boynes
 DATE STARTED: 11/21/2012
 DATE FINISHED: 11/21/2012

DRILLING INFORMATION

 DRILLING CO.: New England GeoTech
 DRILLER: Haze
 RIG TYPE:
 METHOD OF DRILLING: Geoprobe
 SAMPLING METHOD:


 Apparent water level during drilling  Laboratory analytical sample

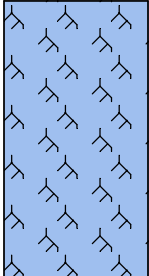
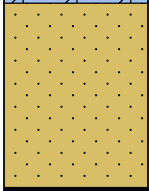
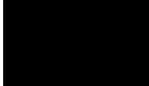
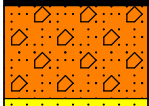
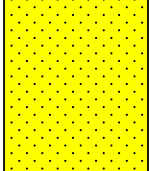
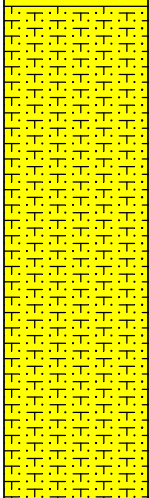
NOTES: Sample at 5 feet for VOCs by EPA Method 8260, RCRA-8 metals and PAH by EPA Method 8270

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 1.7 Dark brown organic rich matter (roots)			
			1.7 - 2.8 Brown medium grained SANDY LOAM, moderately well sorted	0.5		
			2.8 - 3.3 Black material, appears to be coal			
			3.3 - 3.9 Broken brick fragments			
			3.9 - 5.0 Backfill mixed with gravel, some medium to coarse grained sand	1.6		
5			5.0 - 8.0 Brown SILTY SAND, some gravel present, very angular quartz grains, poorly sorted			

 Apparent water level during drilling  Laboratory analytical sample

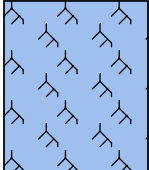
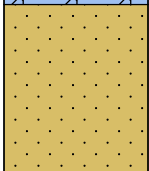
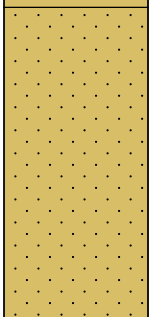
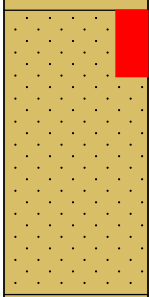
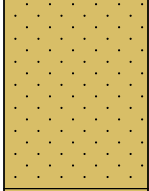
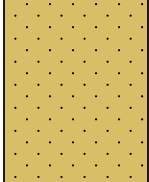
NOTES: Refusal at 8 feet

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 1.3 Dark brown organic rich matter (roots)	0.0		
			1.3 - 2.6 Brown medium to coarse SANDY LOAM, some gravel present			
	60%		2.6 - 5.0 Light brown SAND, well sorted, homogeneous			
5			5.0 - 7.1 Light brown SAND, well sorted, homogeneous	0.5		
	70%		7.1 - 8.6 Light gray SAND, well sorted, homogeneous			
			8.6 - 10.0 Dark gray SAND, well sorted, homogeneous	79.5		
10						

 Apparent water level during drilling  Laboratory analytical sample

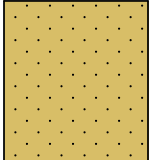
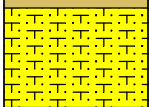
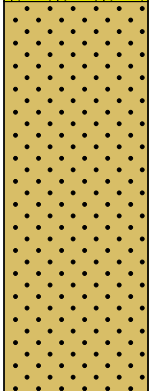
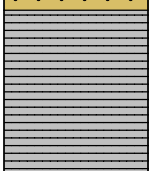
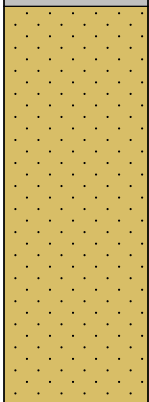

NOTES: Sample at 5 feet for VOCs by EPA Method 8260, RCRA-8 metals and PAH by EPA Method 8270

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 1.3 Dark brown SANDY LOAM, some gravel present, rich in organic matter (roots)			
			1.3 - 2.0 Brown fine to medium grained SANDY SILT, some gravel, poorly sorted			
	40%		2.0 - 5.0 Dark brown coarse grained SAND, some gravel present	0.7		
5			5.0 - 6.3 Brown CLAY with layers of darker colored clay present			
	40%		6.3 - 9.3 Brown medium grained SAND, well sorted, homogeneous	0.3		
10			9.3 - 10.0 Dark gray/black SAND with some gravel present, saturated			

 Apparent water level during drilling  Laboratory analytical sample

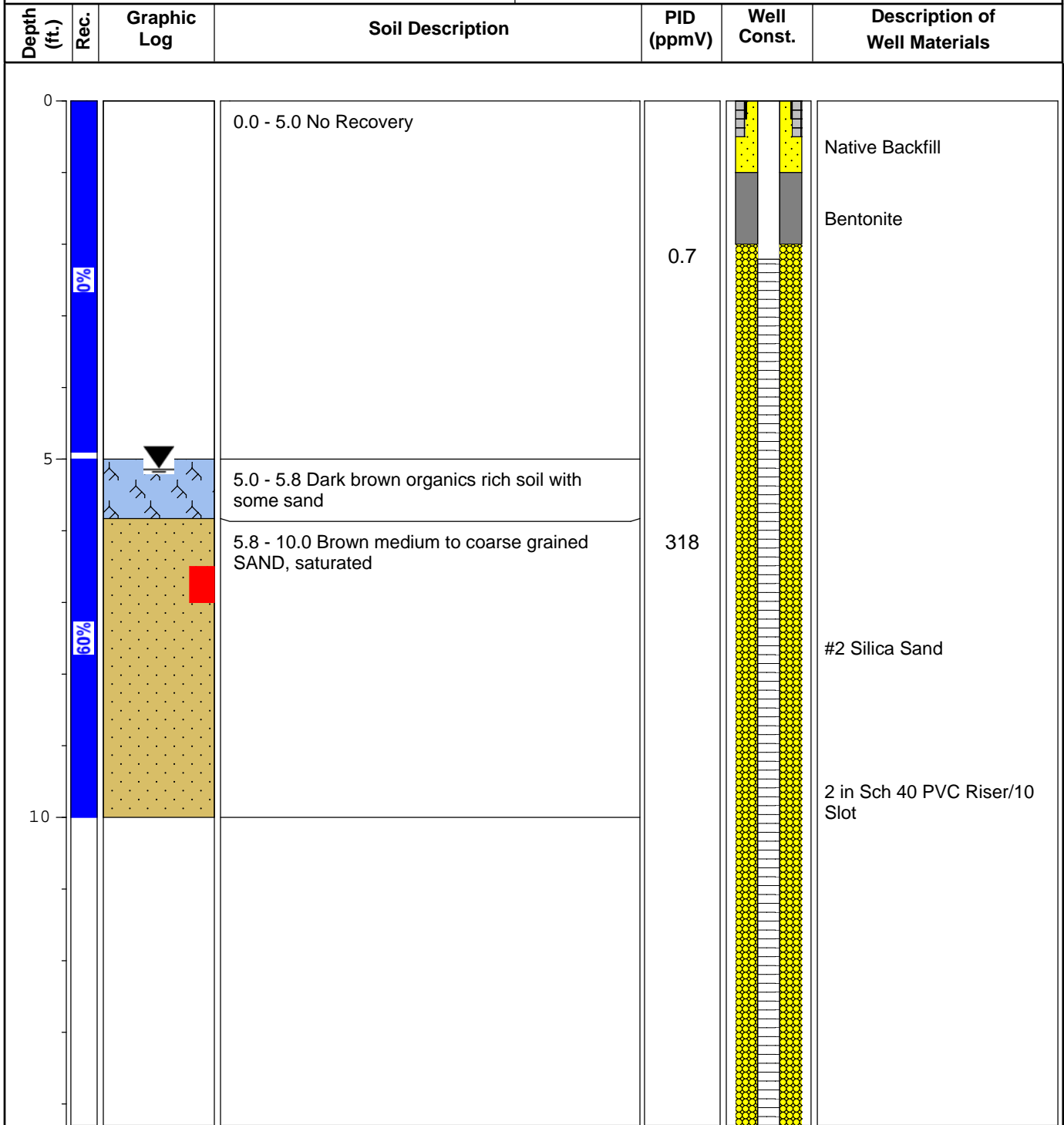
NOTES:

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:



 Apparent water level during drilling  Laboratory analytical sample

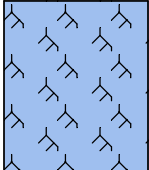
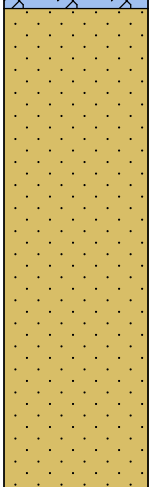
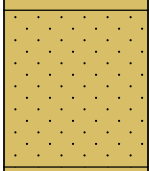
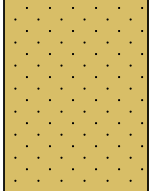
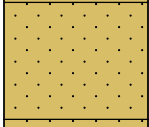

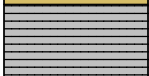
NOTES: Sample at 5 feet for PAH by EPA Method 8270 (not submitted)

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 1.3 Dark brown organic rich matter			
	60%		1.3 - 5.0 Brown medium to coarse SANDY LOAM, fining downwards			
5			5.0 - 6.2 Dark brown medium to coarse grained SAND			
	68%		6.2 - 7.7 Gray medium to coarse grained SAND			
			7.7 - 8.5 Gray medium to coarse grained SAND			
			8.5 - 9.4 Brown medium to coarse grained SAND, well sorted			
10			9.4 - 10.0 Brown/Gray CLAY			

 Apparent water level during drilling  Laboratory analytical sample

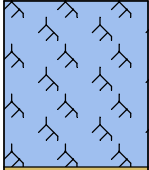
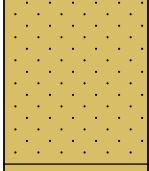
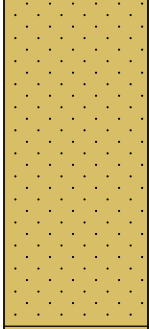
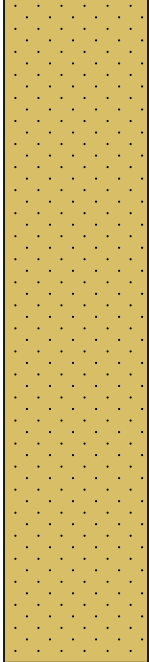
NOTES:

PROJECT INFORMATION

PROJECT: Donegan, Barrington
PROJECT NO.: 7131
LOCATION: 90 Bay Spring Avenue
LOGGED BY: Daniel Boynes
DATE STARTED: 11/21/2012
DATE FINISHED: 11/21/2012

DRILLING INFORMATION

DRILLING CO.: New England GeoTech
DRILLER: Haze
RIG TYPE:
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD:

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 1.3 Dark brown organic rich matter (roots)			
			1.3 - 2.5 Brown medium to coarse grained SAND	0.1		
			2.5 - 5.0 Dark brown SANDY LOAM, some gravey present, poorly sorted			
			5.0 - 10.0 Dark brown SANDY LOAM, some gravey present, poorly sorted			

 Apparent water level during drilling  Laboratory analytical sample

NOTES:

APPENDIX E

Well Monitoring Forms

WELL MONITORING FORM

Project: Donegan, Barrington
 Project No.: 7131
 Location: 90 Bay Spring Avenue
 Date: 11/26/12
 Operator: DSB/EFG
 Method: Interface Probe

Well ID	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	Depth to Bottom (feet)	LNAPL Thickness (feet)	LNAPL Specific Gravity (unitless)	Water Equivalent (feet)	Corrected Depth to Water (feet)	Corrected Water Table Elevation (feet)
MW-1	101.78	ND	12.36	17.37	ND	NA	NA	NA	89.42
MW-2	101.97	ND	12.59	12.59	ND	NA	NA	NA	89.38
MW-3	95.66	ND	6.30	13.21	ND	NA	NA	NA	89.36
MW-4	95.58	ND	7.36	12.21	ND	NA	NA	NA	88.22
MW-5	98.61	ND	9.36	14.30	ND	NA	NA	NA	89.25

NM = Not Measured; ND = None Detected at >0.01 feet; NA = Not Applicable; DRY = No Water in Well

NOTES:

APPENDIX F

Laboratory Reports



CERTIFICATE OF ANALYSIS

Daniel Boynes
Resource Controls
474 Broadway
Pawtucket, RI 02860-1377

RE: Barrington (7131)
ESS Laboratory Work Order Number: 1211445

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 12:07 pm, Dec 05, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

SAMPLE RECEIPT

The following samples were received on November 27, 2012 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1211445-01	S-2 8.3ft	Soil	8260B Low
1211445-02	S-3 5.5ft	Soil	8260B
1211445-03	S-6 5.0ft	Soil	6010B, 7060A, 7471A, 8260B Low, 8270C
1211445-04	S-8 5.0ft	Soil	6010B, 7060A, 7471A, 8260B Low, 8270C
1211445-06	Trip Blank	Solid	8260B Low



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

1211445-01 [Surrogate recovery\(ies\) outside of criteria. Reextraction/Reanalysis confirms results \(SC\).](#)

4-Bromofluorobenzene (264% @ 70-130%)

CK22901-BS1 [Blank Spike recovery is above upper control limit \(B+\).](#)

2-Butanone (183% @ 70-130%), 2-Hexanone (185% @ 70-130%), Acetone (277% @ 70-130%),
trans-1,3-Dichloropropene (133% @ 70-130%)

CK22901-BSD1 [Blank Spike recovery is above upper control limit \(B+\).](#)

2-Butanone (153% @ 70-130%), 2-Hexanone (146% @ 70-130%), Acetone (208% @ 70-130%)

5035/8260B Volatile Organic Compounds / Methanol

1211445-02 [Present in Method Blank \(B\).](#)

Chloroform

CL20420-BS1 [Blank Spike recovery is above upper control limit \(B+\).](#)

Tertiary-amyl methyl ether (133% @ 70-130%)

CL20420-BSD1 [Blank Spike recovery is above upper control limit \(B+\).](#)

1,1-Dichloroethene (132% @ 70-130%), Tertiary-amyl methyl ether (140% @ 70-130%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH / VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5035 - Solid Purge and Trap



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-2 8.3ft
Date Sampled: 11/21/12 09:57
Percent Solids: 80
Initial Volume: 7.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,1,1-Trichloroethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,1,2,2-Tetrachloroethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,1,2-Trichloroethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,1-Dichloroethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,1-Dichloroethene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,1-Dichloropropene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,2,3-Trichlorobenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,2,3-Trichloropropane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,2,4-Trichlorobenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,2,4-Trimethylbenzene	0.0080 (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,2-Dibromo-3-Chloropropane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,2-Dibromoethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,2-Dichlorobenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,2-Dichloroethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,2-Dichloropropane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,3,5-Trimethylbenzene	0.0107 (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,3-Dichlorobenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,3-Dichloropropane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,4-Dichlorobenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1,4-Dioxane	ND (0.0812)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
1-Chlorohexane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
2,2-Dichloropropane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
2-Butanone	ND (0.0406)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
2-Chlorotoluene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
2-Hexanone	ND (0.0406)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
4-Chlorotoluene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
4-Isopropyltoluene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
4-Methyl-2-Pentanone	ND (0.0406)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Acetone	0.0968 (0.0406)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Benzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-2 8.3ft
Date Sampled: 11/21/12 09:57
Percent Solids: 80
Initial Volume: 7.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Bromochloromethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Bromodichloromethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Bromoform	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Bromomethane	ND (0.0081)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Carbon Disulfide	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Carbon Tetrachloride	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Chlorobenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Chloroethane	ND (0.0081)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Chloroform	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Chloromethane	ND (0.0081)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
cis-1,2-Dichloroethene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
cis-1,3-Dichloropropene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Dibromochloromethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Dibromomethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Dichlorodifluoromethane	ND (0.0081)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Diethyl Ether	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Di-isopropyl ether	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Ethyl tertiary-butyl ether	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Ethylbenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Hexachlorobutadiene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Isopropylbenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Methyl tert-Butyl Ether	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Methylene Chloride	ND (0.0203)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Naphthalene	0.0079 (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
n-Butylbenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
n-Propylbenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
sec-Butylbenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Styrene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
tert-Butylbenzene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Tertiary-amyl methyl ether	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: S-2 8.3ft
 Date Sampled: 11/21/12 09:57
 Percent Solids: 80
 Initial Volume: 7.7
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 1211445
 ESS Laboratory Sample ID: 1211445-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrachloroethene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Tetrahydrofuran	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Toluene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
trans-1,2-Dichloroethene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
trans-1,3-Dichloropropene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Trichloroethene	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Trichlorofluoromethane	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Vinyl Acetate	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Vinyl Chloride	ND (0.0081)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Xylene O	ND (0.0041)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Xylene P,M	ND (0.0081)	8260B Low		1	11/29/12 18:50	CVK0298	CK22901
Xylenes (Total)	ND (0.0122)	8260B Low		1	11/29/12 18:50		[CALC]

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichloroethane-d4	97 %		70-130
Surrogate: 4-Bromofluorobenzene	264 %	SC	70-130
Surrogate: Dibromofluoromethane	97 %		70-130
Surrogate: Toluene-d8	96 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-3 5.5ft
Date Sampled: 11/21/12 10:25
Percent Solids: 96
Initial Volume: 18.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0868)	0.0076	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,1,1-Trichloroethane	ND (0.0434)	0.0076	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,1,2,2-Tetrachloroethane	ND (0.0434)	0.0118	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,1,2-Trichloroethane	ND (0.0434)	0.0109	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,1-Dichloroethane	ND (0.0434)	0.0069	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,1-Dichloroethene	ND (0.0434)	0.0107	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,1-Dichloropropene	ND (0.0434)	0.0067	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,2,3-Trichlorobenzene	ND (0.0434)	0.0145	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,2,3-Trichloropropane	ND (0.0434)	0.0108	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,2,4-Trichlorobenzene	ND (0.0434)	0.0096	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,2,4-Trimethylbenzene	J 0.0321 (0.0434)	0.0083	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,2-Dibromo-3-Chloropropane	ND (0.261)	0.0868	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,2-Dibromoethane	ND (0.0434)	0.0110	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,2-Dichlorobenzene	ND (0.0434)	0.0062	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,2-Dichloroethane	ND (0.0434)	0.0116	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,2-Dichloropropane	ND (0.0434)	0.0114	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,3,5-Trimethylbenzene	J 0.0165 (0.0434)	0.0076	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,3-Dichlorobenzene	ND (0.0434)	0.0055	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,3-Dichloropropane	ND (0.0434)	0.0097	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,4-Dichlorobenzene	ND (0.0434)	0.0115	8260B		1	12/04/12 15:16	CVL0029	CL20420
1,4-Dioxane - Screen	ND (4.34)	1.45	8260B		1	12/04/12 15:16	CVL0029	CL20420
1-Chlorohexane	ND (0.0434)	0.0082	8260B		1	12/04/12 15:16	CVL0029	CL20420
2,2-Dichloropropane	ND (0.0868)	0.0148	8260B		1	12/04/12 15:16	CVL0029	CL20420
2-Butanone	ND (1.09)	0.251	8260B		1	12/04/12 15:16	CVL0029	CL20420
2-Chlorotoluene	ND (0.0434)	0.0122	8260B		1	12/04/12 15:16	CVL0029	CL20420
2-Hexanone	ND (0.434)	0.0748	8260B		1	12/04/12 15:16	CVL0029	CL20420
4-Chlorotoluene	ND (0.0434)	0.0056	8260B		1	12/04/12 15:16	CVL0029	CL20420
4-Isopropyltoluene	ND (0.0434)	0.0077	8260B		1	12/04/12 15:16	CVL0029	CL20420
4-Methyl-2-Pentanone	ND (0.434)	0.0523	8260B		1	12/04/12 15:16	CVL0029	CL20420
Acetone	9.93 (1.09)	0.321	8260B		1	12/04/12 15:16	CVL0029	CL20420
Benzene	ND (0.0434)	0.0070	8260B		1	12/04/12 15:16	CVL0029	CL20420



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-3 5.5ft
Date Sampled: 11/21/12 10:25
Percent Solids: 96
Initial Volume: 18.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0434)	0.0119	8260B		1	12/04/12 15:16	CVL0029	CL20420
Bromochloromethane	ND (0.0434)	0.0141	8260B		1	12/04/12 15:16	CVL0029	CL20420
Bromodichloromethane	ND (0.0434)	0.0060	8260B		1	12/04/12 15:16	CVL0029	CL20420
Bromoform	ND (0.0434)	0.0125	8260B		1	12/04/12 15:16	CVL0029	CL20420
Bromomethane	ND (0.0868)	0.0290	8260B		1	12/04/12 15:16	CVL0029	CL20420
Carbon Disulfide	ND (0.0434)	0.0064	8260B		1	12/04/12 15:16	CVL0029	CL20420
Carbon Tetrachloride	ND (0.0434)	0.0076	8260B		1	12/04/12 15:16	CVL0029	CL20420
Chlorobenzene	ND (0.0434)	0.0069	8260B		1	12/04/12 15:16	CVL0029	CL20420
Chloroethane	ND (0.0868)	0.0289	8260B		1	12/04/12 15:16	CVL0029	CL20420
Chloroform	B, J 0.0174 (0.0434)	0.0089	8260B		1	12/04/12 15:16	CVL0029	CL20420
Chloromethane	ND (0.0868)	0.0110	8260B		1	12/04/12 15:16	CVL0029	CL20420
cis-1,2-Dichloroethene	ND (0.0434)	0.0108	8260B		1	12/04/12 15:16	CVL0029	CL20420
cis-1,3-Dichloropropene	ND (0.0434)	0.0098	8260B		1	12/04/12 15:16	CVL0029	CL20420
Dibromochloromethane	ND (0.0434)	0.0109	8260B		1	12/04/12 15:16	CVL0029	CL20420
Dibromomethane	ND (0.0434)	0.0137	8260B		1	12/04/12 15:16	CVL0029	CL20420
Dichlorodifluoromethane	ND (0.0434)	0.0076	8260B		1	12/04/12 15:16	CVL0029	CL20420
Diethyl Ether	ND (0.0434)	0.0110	8260B		1	12/04/12 15:16	CVL0029	CL20420
Di-isopropyl ether	ND (0.0434)	0.0082	8260B		1	12/04/12 15:16	CVL0029	CL20420
Ethyl tertiary-butyl ether	ND (0.0434)	0.0109	8260B		1	12/04/12 15:16	CVL0029	CL20420
Ethylbenzene	0.325 (0.0434)	0.0056	8260B		1	12/04/12 15:16	CVL0029	CL20420
Hexachlorobutadiene	ND (0.0434)	0.0145	8260B		1	12/04/12 15:16	CVL0029	CL20420
Isopropylbenzene	J 0.0426 (0.0434)	0.0076	8260B		1	12/04/12 15:16	CVL0029	CL20420
Methyl tert-Butyl Ether	ND (0.0434)	0.0069	8260B		1	12/04/12 15:16	CVL0029	CL20420
Methylene Chloride	ND (0.217)	0.0114	8260B		1	12/04/12 15:16	CVL0029	CL20420
Naphthalene	0.110 (0.0434)	0.0114	8260B		1	12/04/12 15:16	CVL0029	CL20420
n-Butylbenzene	ND (0.0434)	0.0107	8260B		1	12/04/12 15:16	CVL0029	CL20420
n-Propylbenzene	ND (0.0434)	0.0106	8260B		1	12/04/12 15:16	CVL0029	CL20420
sec-Butylbenzene	ND (0.0434)	0.0058	8260B		1	12/04/12 15:16	CVL0029	CL20420
Styrene	0.127 (0.0434)	0.0057	8260B		1	12/04/12 15:16	CVL0029	CL20420
tert-Butylbenzene	ND (0.0434)	0.0102	8260B		1	12/04/12 15:16	CVL0029	CL20420
Tertiary-amyl methyl ether	ND (0.0434)	0.0063	8260B		1	12/04/12 15:16	CVL0029	CL20420



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-3 5.5ft
Date Sampled: 11/21/12 10:25
Percent Solids: 96
Initial Volume: 18.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrachloroethene	ND (0.0434)	0.0145	8260B		1	12/04/12 15:16	CVL0029	CL20420
Tetrahydrofuran	ND (0.434)	0.112	8260B		1	12/04/12 15:16	CVL0029	CL20420
Toluene	0.0452 (0.0434)	0.0110	8260B		1	12/04/12 15:16	CVL0029	CL20420
trans-1,2-Dichloroethene	ND (0.0434)	0.0142	8260B		1	12/04/12 15:16	CVL0029	CL20420
trans-1,3-Dichloropropene	ND (0.0434)	0.0134	8260B		1	12/04/12 15:16	CVL0029	CL20420
Trichloroethene	ND (0.0434)	0.0089	8260B		1	12/04/12 15:16	CVL0029	CL20420
Trichlorofluoromethane	ND (0.0434)	0.0115	8260B		1	12/04/12 15:16	CVL0029	CL20420
Vinyl Acetate	ND (0.217)	0.0089	8260B		1	12/04/12 15:16	CVL0029	CL20420
Vinyl Chloride	ND (0.0434)	0.0143	8260B		1	12/04/12 15:16	CVL0029	CL20420
Xylene O	1.34 (0.0434)	0.0083	8260B		1	12/04/12 15:16	CVL0029	CL20420
Xylene P,M	2.11 (0.0868)	0.0168	8260B		1	12/04/12 15:16	CVL0029	CL20420
Xylenes (Total)	3.45 (0.130)		8260B		1	12/04/12 15:16		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	85 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	90 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	90 %		70-130
<i>Surrogate: Toluene-d8</i>	95 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-6 5.0ft
Date Sampled: 11/21/12 12:15
Percent Solids: 83

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	18.9 (6.97)	7060A		25	SVD	12/03/12 17:15	2.14	100	CK22828
Barium	65.6 (2.8)	6010B		1	SVD	11/29/12 22:06	2.14	100	CK22828
Cadmium	ND (0.57)	6010B		1	SVD	11/29/12 22:06	2.14	100	CK22828
Chromium	12.9 (1.1)	6010B		1	SVD	11/29/12 22:06	2.14	100	CK22828
Lead	79.9 (5.6)	6010B		1	SVD	11/29/12 22:06	2.14	100	CK22828
Mercury	1.96 (0.367)	7471A		10	KJK	11/30/12 12:25	0.65	40	CK22737
Selenium	ND (5.6)	6010B		1	SVD	11/29/12 22:06	2.14	100	CK22828
Silver	ND (0.57)	6010B		1	SVD	11/29/12 22:06	2.14	100	CK22828



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-6 5.0ft
Date Sampled: 11/21/12 12:15
Percent Solids: 83
Initial Volume: 5.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,1,1-Trichloroethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,1,2,2-Tetrachloroethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,1,2-Trichloroethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,1-Dichloroethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,1-Dichloroethene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,1-Dichloropropene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,2,3-Trichlorobenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,2,3-Trichloropropane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,2,4-Trichlorobenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,2,4-Trimethylbenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,2-Dibromo-3-Chloropropane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,2-Dibromoethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,2-Dichlorobenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,2-Dichloroethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,2-Dichloropropane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,3,5-Trimethylbenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,3-Dichlorobenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,3-Dichloropropane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,4-Dichlorobenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1,4-Dioxane	ND (0.114)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
1-Chlorohexane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
2,2-Dichloropropane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
2-Butanone	ND (0.0568)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
2-Chlorotoluene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
2-Hexanone	ND (0.0568)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
4-Chlorotoluene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
4-Isopropyltoluene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
4-Methyl-2-Pentanone	ND (0.0568)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Acetone	ND (0.0568)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Benzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: S-6 5.0ft
 Date Sampled: 11/21/12 12:15
 Percent Solids: 83
 Initial Volume: 5.3
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 1211445
 ESS Laboratory Sample ID: 1211445-03
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Bromochloromethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Bromodichloromethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Bromoform	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Bromomethane	ND (0.0114)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Carbon Disulfide	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Carbon Tetrachloride	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Chlorobenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Chloroethane	ND (0.0114)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Chloroform	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Chloromethane	ND (0.0114)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
cis-1,2-Dichloroethene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
cis-1,3-Dichloropropene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Dibromochloromethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Dibromomethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Dichlorodifluoromethane	ND (0.0114)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Diethyl Ether	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Di-isopropyl ether	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Ethyl tertiary-butyl ether	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Ethylbenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Hexachlorobutadiene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Isopropylbenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Methyl tert-Butyl Ether	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Methylene Chloride	ND (0.0284)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Naphthalene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
n-Butylbenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
n-Propylbenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
sec-Butylbenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Styrene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
tert-Butylbenzene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Tertiary-amyl methyl ether	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: S-6 5.0ft
 Date Sampled: 11/21/12 12:15
 Percent Solids: 83
 Initial Volume: 5.3
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 1211445
 ESS Laboratory Sample ID: 1211445-03
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrachloroethene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Tetrahydrofuran	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Toluene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
trans-1,2-Dichloroethene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
trans-1,3-Dichloropropene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Trichloroethene	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Trichlorofluoromethane	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Vinyl Acetate	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Vinyl Chloride	ND (0.0114)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Xylene O	ND (0.0057)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Xylene P,M	ND (0.0114)	8260B Low		1	11/29/12 17:53	CVK0298	CK22901
Xylenes (Total)	ND (0.0170)	8260B Low		1	11/29/12 17:53		[CALC]

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130
Surrogate: 4-Bromofluorobenzene	92 %		70-130
Surrogate: Dibromofluoromethane	108 %		70-130
Surrogate: Toluene-d8	97 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-6 5.0ft
Date Sampled: 11/21/12 12:15
Percent Solids: 83
Initial Volume: 14.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 11/28/12 18:00

8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Acenaphthene	ND (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Acenaphthylene	ND (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Anthracene	1.11 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Benzo(a)anthracene	3.34 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Benzo(a)pyrene	2.27 (0.213)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Benzo(b)fluoranthene	3.83 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Benzo(g,h,i)perylene	2.05 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Benzo(k)fluoranthene	1.17 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Chrysene	4.09 (0.213)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Dibenzo(a,h)Anthracene	0.910 (0.213)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Fluoranthene	7.25 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Fluorene	ND (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Indeno(1,2,3-cd)Pyrene	1.81 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Naphthalene	0.639 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Phenanthrene	5.81 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830
Pyrene	5.41 (0.424)	8270C		1	11/29/12 20:01	CVK0303	CK22830

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	68 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	75 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	74 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	88 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-8 5.0ft
Date Sampled: 11/21/12 13:00
Percent Solids: 93

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-04
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (1.24)	7060A		5	SVD	12/03/12 17:21	2.15	100	CK22828
Barium	5.8 (2.5)	6010B		1	SVD	11/29/12 22:10	2.15	100	CK22828
Cadmium	ND (0.50)	6010B		1	SVD	11/29/12 22:10	2.15	100	CK22828
Chromium	2.1 (1.0)	6010B		1	SVD	11/29/12 22:10	2.15	100	CK22828
Lead	ND (5.0)	6010B		1	SVD	11/29/12 22:10	2.15	100	CK22828
Mercury	0.052 (0.035)	7471A		1	KJK	11/30/12 12:27	0.61	40	CK22737
Selenium	ND (5.0)	6010B		1	SVD	11/29/12 22:10	2.15	100	CK22828
Silver	ND (0.50)	6010B		1	SVD	11/29/12 22:10	2.15	100	CK22828



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-8 5.0ft
Date Sampled: 11/21/12 13:00
Percent Solids: 93
Initial Volume: 10.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,1,1-Trichloroethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,1,2,2-Tetrachloroethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,1,2-Trichloroethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,1-Dichloroethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,1-Dichloroethene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,1-Dichloropropene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,2,3-Trichlorobenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,2,3-Trichloropropane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,2,4-Trichlorobenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,2,4-Trimethylbenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,2-Dibromo-3-Chloropropane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,2-Dibromoethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,2-Dichlorobenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,2-Dichloroethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,2-Dichloropropane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,3,5-Trimethylbenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,3-Dichlorobenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,3-Dichloropropane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,4-Dichlorobenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1,4-Dioxane	ND (0.0532)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
1-Chlorohexane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
2,2-Dichloropropane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
2-Butanone	ND (0.0266)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
2-Chlorotoluene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
2-Hexanone	ND (0.0266)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
4-Chlorotoluene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
4-Isopropyltoluene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
4-Methyl-2-Pentanone	ND (0.0266)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Acetone	ND (0.0266)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Benzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: S-8 5.0ft
Date Sampled: 11/21/12 13:00
Percent Solids: 93
Initial Volume: 10.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Bromochloromethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Bromodichloromethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Bromoform	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Bromomethane	ND (0.0053)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Carbon Disulfide	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Carbon Tetrachloride	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Chlorobenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Chloroethane	ND (0.0053)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Chloroform	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Chloromethane	ND (0.0053)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
cis-1,2-Dichloroethene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
cis-1,3-Dichloropropene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Dibromochloromethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Dibromomethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Dichlorodifluoromethane	ND (0.0053)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Diethyl Ether	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Di-isopropyl ether	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Ethyl tertiary-butyl ether	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Ethylbenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Hexachlorobutadiene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Isopropylbenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Methyl tert-Butyl Ether	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Methylene Chloride	ND (0.0133)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Naphthalene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
n-Butylbenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
n-Propylbenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
sec-Butylbenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Styrene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
tert-Butylbenzene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Tertiary-amyl methyl ether	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: S-8 5.0ft
 Date Sampled: 11/21/12 13:00
 Percent Solids: 93
 Initial Volume: 10.1
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 1211445
 ESS Laboratory Sample ID: 1211445-04
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrachloroethene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Tetrahydrofuran	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Toluene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
trans-1,2-Dichloroethene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
trans-1,3-Dichloropropene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Trichloroethene	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Trichlorofluoromethane	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Vinyl Acetate	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Vinyl Chloride	ND (0.0053)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Xylene O	ND (0.0027)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Xylene P,M	ND (0.0053)	8260B Low		1	11/29/12 15:02	CVK0298	CK22901
Xylenes (Total)	ND (0.0080)	8260B Low		1	11/29/12 15:02		[CALC]

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130
Surrogate: 4-Bromofluorobenzene	94 %		70-130
Surrogate: Dibromofluoromethane	105 %		70-130
Surrogate: Toluene-d8	98 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: S-8 5.0ft
 Date Sampled: 11/21/12 13:00
 Percent Solids: 93
 Initial Volume: 14.9
 Final Volume: 0.5
 Extraction Method: 3546

ESS Laboratory Work Order: 1211445
 ESS Laboratory Sample ID: 1211445-04
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: IBM
 Prepared: 11/28/12 18:00

8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Acenaphthene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Acenaphthylene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Anthracene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Benzo(a)anthracene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Benzo(a)pyrene	ND (0.181)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Benzo(b)fluoranthene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Benzo(g,h,i)perylene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Benzo(k)fluoranthene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Chrysene	ND (0.181)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Dibenzo(a,h)Anthracene	ND (0.181)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Fluoranthene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Fluorene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Indeno(1,2,3-cd)Pyrene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Naphthalene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Phenanthrene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830
Pyrene	ND (0.360)	8270C		1	11/29/12 13:56	CVK0303	CK22830

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	69 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	82 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	77 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	97 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: Trip Blank
 Date Sampled: 11/21/12 00:00
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 1211445
 ESS Laboratory Sample ID: 1211445-06
 Sample Matrix: Solid
 Units: mg/kg
 Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,1,1-Trichloroethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,1,2,2-Tetrachloroethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,1,2-Trichloroethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,1-Dichloroethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,1-Dichloroethene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,1-Dichloropropene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,2,3-Trichlorobenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,2,3-Trichloropropane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,2,4-Trichlorobenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,2,4-Trimethylbenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,2-Dibromo-3-Chloropropane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,2-Dibromoethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,2-Dichlorobenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,2-Dichloroethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,2-Dichloropropane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,3,5-Trimethylbenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,3-Dichlorobenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,3-Dichloropropane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,4-Dichlorobenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1,4-Dioxane	ND (0.100)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
1-Chlorohexane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
2,2-Dichloropropane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
2-Butanone	ND (0.0500)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
2-Chlorotoluene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
2-Hexanone	ND (0.0500)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
4-Chlorotoluene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
4-Isopropyltoluene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
4-Methyl-2-Pentanone	ND (0.0500)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Acetone	ND (0.0500)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Benzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: Trip Blank
Date Sampled: 11/21/12 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1211445
ESS Laboratory Sample ID: 1211445-06
Sample Matrix: Solid
Units: mg/kg
Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Bromochloromethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Bromodichloromethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Bromoform	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Bromomethane	ND (0.0100)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Carbon Disulfide	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Carbon Tetrachloride	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Chlorobenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Chloroethane	ND (0.0100)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Chloroform	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Chloromethane	ND (0.0100)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
cis-1,2-Dichloroethene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
cis-1,3-Dichloropropene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Dibromochloromethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Dibromomethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Dichlorodifluoromethane	ND (0.0100)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Diethyl Ether	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Di-isopropyl ether	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Ethyl tertiary-butyl ether	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Ethylbenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Hexachlorobutadiene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Isopropylbenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Methyl tert-Butyl Ether	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Methylene Chloride	ND (0.0250)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Naphthalene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
n-Butylbenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
n-Propylbenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
sec-Butylbenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Styrene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
tert-Butylbenzene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Tertiary-amyl methyl ether	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: Trip Blank
 Date Sampled: 11/21/12 00:00
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 1211445
 ESS Laboratory Sample ID: 1211445-06
 Sample Matrix: Solid
 Units: mg/kg
 Analyst: VAC

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrachloroethene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Tetrahydrofuran	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Toluene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
trans-1,2-Dichloroethene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
trans-1,3-Dichloropropene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Trichloroethene	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Trichlorofluoromethane	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Vinyl Acetate	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Vinyl Chloride	ND (0.0100)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Xylene O	ND (0.0050)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901
Xylene P,M	ND (0.0100)	8260B Low		1	11/29/12 14:34	CVK0298	CK22901

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>109 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>97 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals Solid

Batch CK22737 - 7471A

Blank

Mercury	ND	0.033	mg/kg wet							
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LCS

Mercury	22.2	3.19	mg/kg wet	25.10		88	80-120			
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LCS Dup

Mercury	23.2	2.91	mg/kg wet	25.10		93	80-120	5	20	
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Batch CK22828 - 3050B

Blank

Arsenic	ND	0.25	mg/kg wet							
Barium	ND	2.5	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							

LCS

Arsenic	164	47.6	mg/kg wet	168.0		97	80-120			
Barium	184	9.6	mg/kg wet	213.0		87	80-120			
Cadmium	85.1	1.93	mg/kg wet	103.0		83	80-120			
Chromium	103	3.8	mg/kg wet	119.0		87	80-120			
Lead	66.4	19.2	mg/kg wet	76.90		86	80-120			
Selenium	109	19.2	mg/kg wet	126.0		87	80-120			
Silver	37.7	1.93	mg/kg wet	42.30		89	80-120			

LCS Dup

Arsenic	161	45.0	mg/kg wet	168.0		96	80-120	1	20	
Barium	191	9.1	mg/kg wet	213.0		90	80-120	4	20	
Cadmium	87.2	1.83	mg/kg wet	103.0		85	80-120	2	20	
Chromium	106	3.6	mg/kg wet	119.0		89	80-120	2	20	
Lead	67.9	18.2	mg/kg wet	76.90		88	80-120	2	20	
Selenium	111	18.2	mg/kg wet	126.0		88	80-120	1	20	
Silver	38.5	1.83	mg/kg wet	42.30		91	80-120	2	20	

5035/8260B Volatile Organic Compounds / Low Level

Batch CK22901 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK22901 - 5035

1,2,3-Trichloropropane	ND	0.0050	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet
1,2-Dibromoethane	ND	0.0050	mg/kg wet
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet
1,2-Dichloroethane	ND	0.0050	mg/kg wet
1,2-Dichloropropane	ND	0.0050	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet
1,3-Dichloropropane	ND	0.0050	mg/kg wet
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet
1,4-Dioxane	ND	0.100	mg/kg wet
1-Chlorohexane	ND	0.0050	mg/kg wet
2,2-Dichloropropane	ND	0.0050	mg/kg wet
2-Butanone	ND	0.0500	mg/kg wet
2-Chlorotoluene	ND	0.0050	mg/kg wet
2-Hexanone	ND	0.0500	mg/kg wet
4-Chlorotoluene	ND	0.0050	mg/kg wet
4-Isopropyltoluene	ND	0.0050	mg/kg wet
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet
Acetone	ND	0.0500	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Carbon Disulfide	ND	0.0050	mg/kg wet
Carbon Tetrachloride	ND	0.0050	mg/kg wet
Chlorobenzene	ND	0.0050	mg/kg wet
Chloroethane	ND	0.0100	mg/kg wet
Chloroform	ND	0.0050	mg/kg wet
Chloromethane	ND	0.0100	mg/kg wet
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Dibromochloromethane	ND	0.0050	mg/kg wet
Dibromomethane	ND	0.0050	mg/kg wet
Dichlorodifluoromethane	ND	0.0100	mg/kg wet
Diethyl Ether	ND	0.0050	mg/kg wet
Di-isopropyl ether	ND	0.0050	mg/kg wet
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet
Ethylbenzene	ND	0.0050	mg/kg wet
Hexachlorobutadiene	ND	0.0050	mg/kg wet
Isopropylbenzene	ND	0.0050	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK22901 - 5035

Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Acetate	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0554		mg/kg wet	0.05000		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.0479		mg/kg wet	0.05000		96	70-130			
Surrogate: Dibromofluoromethane	0.0510		mg/kg wet	0.05000		102	70-130			
Surrogate: Toluene-d8	0.0489		mg/kg wet	0.05000		98	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0578	0.0050	mg/kg wet	0.05000		116	70-130			
1,1,1-Trichloroethane	0.0618	0.0050	mg/kg wet	0.05000		124	70-130			
1,1,2,2-Tetrachloroethane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130			
1,1,2-Trichloroethane	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
1,1-Dichloroethane	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
1,1-Dichloroethene	0.0564	0.0050	mg/kg wet	0.05000		113	70-130			
1,1-Dichloropropene	0.0620	0.0050	mg/kg wet	0.05000		124	70-130			
1,2,3-Trichlorobenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,2,3-Trichloropropane	0.0577	0.0050	mg/kg wet	0.05000		115	70-130			
1,2,4-Trichlorobenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130			
1,2,4-Trimethylbenzene	0.0574	0.0050	mg/kg wet	0.05000		115	70-130			
1,2-Dibromo-3-Chloropropane	0.0632	0.0050	mg/kg wet	0.05000		126	70-130			
1,2-Dibromoethane	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
1,2-Dichlorobenzene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
1,2-Dichloroethane	0.0603	0.0050	mg/kg wet	0.05000		121	70-130			
1,2-Dichloropropane	0.0542	0.0050	mg/kg wet	0.05000		108	70-130			
1,3,5-Trimethylbenzene	0.0582	0.0050	mg/kg wet	0.05000		116	70-130			
1,3-Dichlorobenzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
1,3-Dichloropropane	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
1,4-Dichlorobenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK22901 - 5035

1,4-Dioxane	1.16	0.100	mg/kg wet	1.000		116	70-130			
1-Chlorohexane	0.0554	0.0050	mg/kg wet	0.05000		111	70-130			
2,2-Dichloropropane	0.0640	0.0050	mg/kg wet	0.05000		128	70-130			
2-Butanone	0.457	0.0500	mg/kg wet	0.2500		183	70-130			B+
2-Chlorotoluene	0.0577	0.0050	mg/kg wet	0.05000		115	70-130			
2-Hexanone	0.463	0.0500	mg/kg wet	0.2500		185	70-130			B+
4-Chlorotoluene	0.0573	0.0050	mg/kg wet	0.05000		115	70-130			
4-Isopropyltoluene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
4-Methyl-2-Pentanone	0.319	0.0500	mg/kg wet	0.2500		128	70-130			
Acetone	0.693	0.0500	mg/kg wet	0.2500		277	70-130			B+
Benzene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
Bromobenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
Bromochloromethane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
Bromodichloromethane	0.0650	0.0050	mg/kg wet	0.05000		130	70-130			
Bromoform	0.0646	0.0050	mg/kg wet	0.05000		129	70-130			
Bromomethane	0.0549	0.0100	mg/kg wet	0.05000		110	70-130			
Carbon Disulfide	0.0630	0.0050	mg/kg wet	0.05000		126	70-130			
Carbon Tetrachloride	0.0632	0.0050	mg/kg wet	0.05000		126	70-130			
Chlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
Chloroethane	0.0467	0.0100	mg/kg wet	0.05000		93	70-130			
Chloroform	0.0570	0.0050	mg/kg wet	0.05000		114	70-130			
Chloromethane	0.0399	0.0100	mg/kg wet	0.05000		80	70-130			
cis-1,2-Dichloroethene	0.0565	0.0050	mg/kg wet	0.05000		113	70-130			
cis-1,3-Dichloropropene	0.0620	0.0050	mg/kg wet	0.05000		124	70-130			
Dibromochloromethane	0.0639	0.0050	mg/kg wet	0.05000		128	70-130			
Dibromomethane	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
Dichlorodifluoromethane	0.0546	0.0100	mg/kg wet	0.05000		109	70-130			
Diethyl Ether	0.0581	0.0050	mg/kg wet	0.05000		116	70-130			
Di-isopropyl ether	0.0581	0.0050	mg/kg wet	0.05000		116	70-130			
Ethyl tertiary-butyl ether	0.0601	0.0050	mg/kg wet	0.05000		120	70-130			
Ethylbenzene	0.0573	0.0050	mg/kg wet	0.05000		115	70-130			
Hexachlorobutadiene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			
Isopropylbenzene	0.0589	0.0050	mg/kg wet	0.05000		118	70-130			
Methyl tert-Butyl Ether	0.0613	0.0050	mg/kg wet	0.05000		123	70-130			
Methylene Chloride	0.0533	0.0250	mg/kg wet	0.05000		107	70-130			
Naphthalene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
n-Butylbenzene	0.0573	0.0050	mg/kg wet	0.05000		115	70-130			
n-Propylbenzene	0.0591	0.0050	mg/kg wet	0.05000		118	70-130			
sec-Butylbenzene	0.0590	0.0050	mg/kg wet	0.05000		118	70-130			
Styrene	0.0554	0.0050	mg/kg wet	0.05000		111	70-130			
tert-Butylbenzene	0.0572	0.0050	mg/kg wet	0.05000		114	70-130			
Tertiary-amyl methyl ether	0.0614	0.0050	mg/kg wet	0.05000		123	70-130			
Tetrachloroethene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Tetrahydrofuran	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Toluene	0.0560	0.0050	mg/kg wet	0.05000		112	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK22901 - 5035

trans-1,2-Dichloroethane	0.0542	0.0050	mg/kg wet	0.05000		108	70-130			
trans-1,3-Dichloropropene	0.0663	0.0050	mg/kg wet	0.05000		133	70-130			B+
Trichloroethene	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
Trichlorofluoromethane	0.0574	0.0050	mg/kg wet	0.05000		115	70-130			
Vinyl Acetate	0.0570	0.0050	mg/kg wet	0.05000		114	70-130			
Vinyl Chloride	0.0488	0.0100	mg/kg wet	0.05000		98	70-130			
Xylene O	0.0555	0.0050	mg/kg wet	0.05000		111	70-130			
Xylene P,M	0.110	0.0100	mg/kg wet	0.1000		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0554		mg/kg wet	0.05000		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.0515		mg/kg wet	0.05000		103	70-130			
Surrogate: Dibromofluoromethane	0.0532		mg/kg wet	0.05000		106	70-130			
Surrogate: Toluene-d8	0.0508		mg/kg wet	0.05000		102	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0565	0.0050	mg/kg wet	0.05000		113	70-130	2	25	
1,1,1-Trichloroethane	0.0598	0.0050	mg/kg wet	0.05000		120	70-130	3	25	
1,1,2,2-Tetrachloroethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	6	25	
1,1,2-Trichloroethane	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	5	25	
1,1-Dichloroethane	0.0532	0.0050	mg/kg wet	0.05000		106	70-130	3	25	
1,1-Dichloroethene	0.0552	0.0050	mg/kg wet	0.05000		110	70-130	2	25	
1,1-Dichloropropene	0.0602	0.0050	mg/kg wet	0.05000		120	70-130	3	25	
1,2,3-Trichlorobenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	1	25	
1,2,3-Trichloropropane	0.0549	0.0050	mg/kg wet	0.05000		110	70-130	5	25	
1,2,4-Trichlorobenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	0.9	25	
1,2,4-Trimethylbenzene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130	0.9	25	
1,2-Dibromo-3-Chloropropane	0.0589	0.0050	mg/kg wet	0.05000		118	70-130	7	25	
1,2-Dibromoethane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	5	25	
1,2-Dichlorobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	2	25	
1,2-Dichloroethane	0.0575	0.0050	mg/kg wet	0.05000		115	70-130	5	25	
1,2-Dichloropropane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
1,3,5-Trimethylbenzene	0.0580	0.0050	mg/kg wet	0.05000		116	70-130	0.4	25	
1,3-Dichlorobenzene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	2	25	
1,3-Dichloropropane	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
1,4-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
1,4-Dioxane	1.06	0.100	mg/kg wet	1.000		106	70-130	9	20	
1-Chlorohexane	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	3	25	
2,2-Dichloropropane	0.0615	0.0050	mg/kg wet	0.05000		123	70-130	4	25	
2-Butanone	0.383	0.0500	mg/kg wet	0.2500		153	70-130	18	25	B+
2-Chlorotoluene	0.0571	0.0050	mg/kg wet	0.05000		114	70-130	0.9	25	
2-Hexanone	0.366	0.0500	mg/kg wet	0.2500		146	70-130	23	25	B+
4-Chlorotoluene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130	0.8	25	
4-Isopropyltoluene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	0.9	25	
4-Methyl-2-Pentanone	0.285	0.0500	mg/kg wet	0.2500		114	70-130	11	25	
Acetone	0.520	0.0500	mg/kg wet	0.2500		208	70-130	29	25	B+
Benzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	4	25	
Bromobenzene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	3	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CK22901 - 5035

Bromochloromethane	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
Bromodichloromethane	0.0633	0.0050	mg/kg wet	0.05000		127	70-130	3	25	
Bromoform	0.0620	0.0050	mg/kg wet	0.05000		124	70-130	4	25	
Bromomethane	0.0539	0.0100	mg/kg wet	0.05000		108	70-130	2	25	
Carbon Disulfide	0.0614	0.0050	mg/kg wet	0.05000		123	70-130	3	25	
Carbon Tetrachloride	0.0616	0.0050	mg/kg wet	0.05000		123	70-130	2	25	
Chlorobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	4	25	
Chloroethane	0.0447	0.0100	mg/kg wet	0.05000		89	70-130	4	25	
Chloroform	0.0550	0.0050	mg/kg wet	0.05000		110	70-130	4	25	
Chloromethane	0.0388	0.0100	mg/kg wet	0.05000		78	70-130	3	25	
cis-1,2-Dichloroethene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	5	25	
cis-1,3-Dichloropropene	0.0602	0.0050	mg/kg wet	0.05000		120	70-130	3	25	
Dibromochloromethane	0.0616	0.0050	mg/kg wet	0.05000		123	70-130	4	25	
Dibromomethane	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	4	25	
Dichlorodifluoromethane	0.0535	0.0100	mg/kg wet	0.05000		107	70-130	2	25	
Diethyl Ether	0.0551	0.0050	mg/kg wet	0.05000		110	70-130	5	25	
Di-isopropyl ether	0.0555	0.0050	mg/kg wet	0.05000		111	70-130	5	25	
Ethyl tertiary-butyl ether	0.0574	0.0050	mg/kg wet	0.05000		115	70-130	5	25	
Ethylbenzene	0.0562	0.0050	mg/kg wet	0.05000		112	70-130	2	25	
Hexachlorobutadiene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	0.4	25	
Isopropylbenzene	0.0585	0.0050	mg/kg wet	0.05000		117	70-130	0.6	25	
Methyl tert-Butyl Ether	0.0584	0.0050	mg/kg wet	0.05000		117	70-130	5	25	
Methylene Chloride	0.0512	0.0250	mg/kg wet	0.05000		102	70-130	4	25	
Naphthalene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	3	25	
n-Butylbenzene	0.0567	0.0050	mg/kg wet	0.05000		113	70-130	1	25	
n-Propylbenzene	0.0585	0.0050	mg/kg wet	0.05000		117	70-130	0.9	25	
sec-Butylbenzene	0.0586	0.0050	mg/kg wet	0.05000		117	70-130	0.6	25	
Styrene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
tert-Butylbenzene	0.0569	0.0050	mg/kg wet	0.05000		114	70-130	0.6	25	
Tertiary-amyl methyl ether	0.0581	0.0050	mg/kg wet	0.05000		116	70-130	6	25	
Tetrachloroethene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	1	25	
Tetrahydrofuran	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	9	25	
Toluene	0.0537	0.0050	mg/kg wet	0.05000		107	70-130	4	25	
trans-1,2-Dichloroethene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	2	25	
trans-1,3-Dichloropropene	0.0645	0.0050	mg/kg wet	0.05000		129	70-130	3	25	
Trichloroethene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
Trichlorofluoromethane	0.0560	0.0050	mg/kg wet	0.05000		112	70-130	2	25	
Vinyl Acetate	0.0543	0.0050	mg/kg wet	0.05000		109	70-130	5	25	
Vinyl Chloride	0.0476	0.0100	mg/kg wet	0.05000		95	70-130	2	25	
Xylene O	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	3	25	
Xylene P,M	0.107	0.0100	mg/kg wet	0.1000		107	70-130	3	25	
Surrogate: 1,2-Dichloroethane-d4	0.0541		mg/kg wet	0.05000		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.0515		mg/kg wet	0.05000		103	70-130			
Surrogate: Dibromofluoromethane	0.0518		mg/kg wet	0.05000		104	70-130			
Surrogate: Toluene-d8	0.0511		mg/kg wet	0.05000		102	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Methanol

Batch CL20420 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethene	ND	0.0500	mg/kg wet							
1,1-Dichloropropene	ND	0.0500	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.300	mg/kg wet							
1,2-Dibromoethane	ND	0.0500	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,2-Dichloroethane	ND	0.0500	mg/kg wet							
1,2-Dichloropropane	ND	0.0500	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,3-Dichloropropane	ND	0.0500	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,4-Dioxane - Screen	ND	5.00	mg/kg wet							
1-Chlorohexane	ND	0.0500	mg/kg wet							
2,2-Dichloropropane	ND	0.100	mg/kg wet							
2-Butanone	ND	1.25	mg/kg wet							
2-Chlorotoluene	ND	0.0500	mg/kg wet							
2-Hexanone	ND	0.500	mg/kg wet							
4-Chlorotoluene	ND	0.0500	mg/kg wet							
4-Isopropyltoluene	ND	0.0500	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.500	mg/kg wet							
Acetone	0.600	1.25	mg/kg wet							J
Benzene	ND	0.0500	mg/kg wet							
Bromobenzene	ND	0.0500	mg/kg wet							
Bromochloromethane	ND	0.0500	mg/kg wet							
Bromodichloromethane	ND	0.0500	mg/kg wet							
Bromoform	ND	0.0500	mg/kg wet							
Bromomethane	ND	0.100	mg/kg wet							
Carbon Disulfide	ND	0.0500	mg/kg wet							
Carbon Tetrachloride	ND	0.0500	mg/kg wet							
Chlorobenzene	ND	0.0500	mg/kg wet							
Chloroethane	ND	0.100	mg/kg wet							
Chloroform	0.0160	0.0500	mg/kg wet							J
Chloromethane	ND	0.100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0500	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
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ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Methanol

Batch CL20420 - 5035

Dibromochloromethane	ND	0.0500	mg/kg wet							
Dibromomethane	ND	0.0500	mg/kg wet							
Dichlorodifluoromethane	ND	0.0500	mg/kg wet							
Diethyl Ether	ND	0.0500	mg/kg wet							
Di-isopropyl ether	ND	0.0500	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0500	mg/kg wet							
Ethylbenzene	ND	0.0500	mg/kg wet							
Hexachlorobutadiene	ND	0.0500	mg/kg wet							
Isopropylbenzene	ND	0.0500	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0500	mg/kg wet							
Methylene Chloride	ND	0.250	mg/kg wet							
Naphthalene	ND	0.0500	mg/kg wet							
n-Butylbenzene	ND	0.0500	mg/kg wet							
n-Propylbenzene	ND	0.0500	mg/kg wet							
sec-Butylbenzene	ND	0.0500	mg/kg wet							
Styrene	ND	0.0500	mg/kg wet							
tert-Butylbenzene	ND	0.0500	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0500	mg/kg wet							
Tetrachloroethene	ND	0.0500	mg/kg wet							
Tetrahydrofuran	ND	0.500	mg/kg wet							
Toluene	ND	0.0500	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Trichloroethene	ND	0.0500	mg/kg wet							
Vinyl Acetate	ND	0.250	mg/kg wet							
Vinyl Chloride	ND	0.0500	mg/kg wet							
Xylene O	ND	0.0500	mg/kg wet							
Xylene P,M	ND	0.100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	2.33		mg/kg wet	2.500		93	70-130			
Surrogate: 4-Bromofluorobenzene	2.39		mg/kg wet	2.500		96	70-130			
Surrogate: Dibromofluoromethane	2.38		mg/kg wet	2.500		95	70-130			
Surrogate: Toluene-d8	2.63		mg/kg wet	2.500		105	70-130			

LCS

1,1,1,2-Tetrachloroethane	2.05	0.100	mg/kg wet	2.500		82	70-130			
1,1,1-Trichloroethane	2.24	0.0500	mg/kg wet	2.500		90	70-130			
1,1,2,2-Tetrachloroethane	2.60	0.0500	mg/kg wet	2.500		104	70-130			
1,1,2-Trichloroethane	2.77	0.0500	mg/kg wet	2.500		111	70-130			
1,1-Dichloroethane	2.62	0.0500	mg/kg wet	2.500		105	70-130			
1,1-Dichloroethene	3.10	0.0500	mg/kg wet	2.500		124	70-130			
1,1-Dichloropropene	3.01	0.0500	mg/kg wet	2.500		121	70-130			
1,2,3-Trichlorobenzene	2.83	0.0500	mg/kg wet	2.500		113	70-130			
1,2,3-Trichloropropane	2.52	0.0500	mg/kg wet	2.500		101	70-130			
1,2,4-Trichlorobenzene	2.89	0.0500	mg/kg wet	2.500		116	70-130			
1,2,4-Trimethylbenzene	2.76	0.0500	mg/kg wet	2.500		110	70-130			
1,2-Dibromo-3-Chloropropane	2.08	0.300	mg/kg wet	2.500		83	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Methanol

Batch CL20420 - 5035

1,2-Dibromoethane	2.66	0.0500	mg/kg wet	2.500		106	70-130			
1,2-Dichlorobenzene	2.66	0.0500	mg/kg wet	2.500		106	70-130			
1,2-Dichloroethane	2.26	0.0500	mg/kg wet	2.500		91	70-130			
1,2-Dichloropropane	2.68	0.0500	mg/kg wet	2.500		107	70-130			
1,3,5-Trimethylbenzene	2.82	0.0500	mg/kg wet	2.500		113	70-130			
1,3-Dichlorobenzene	2.60	0.0500	mg/kg wet	2.500		104	70-130			
1,3-Dichloropropane	2.48	0.0500	mg/kg wet	2.500		99	70-130			
1,4-Dichlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
1,4-Dioxane - Screen	59.0	5.00	mg/kg wet	50.00		118	44-241			
1-Chlorohexane	2.53	0.0500	mg/kg wet	2.500		101	70-130			
2,2-Dichloropropane	2.57	0.100	mg/kg wet	2.500		103	70-130			
2-Butanone	13.6	1.25	mg/kg wet	12.50		109	70-130			
2-Chlorotoluene	2.69	0.0500	mg/kg wet	2.500		108	70-130			
2-Hexanone	12.5	0.500	mg/kg wet	12.50		100	70-130			
4-Chlorotoluene	2.66	0.0500	mg/kg wet	2.500		106	70-130			
4-Isopropyltoluene	2.42	0.0500	mg/kg wet	2.500		97	70-130			
4-Methyl-2-Pentanone	13.8	0.500	mg/kg wet	12.50		110	70-130			
Acetone	12.3	1.25	mg/kg wet	12.50		99	70-130			
Benzene	2.76	0.0500	mg/kg wet	2.500		110	70-130			
Bromobenzene	2.68	0.0500	mg/kg wet	2.500		107	70-130			
Bromochloromethane	2.80	0.0500	mg/kg wet	2.500		112	70-130			
Bromodichloromethane	2.26	0.0500	mg/kg wet	2.500		91	70-130			
Bromoform	2.19	0.0500	mg/kg wet	2.500		88	70-130			
Bromomethane	2.86	0.100	mg/kg wet	2.500		114	70-130			
Carbon Disulfide	2.57	0.0500	mg/kg wet	2.500		103	70-130			
Carbon Tetrachloride	2.08	0.0500	mg/kg wet	2.500		83	70-130			
Chlorobenzene	2.48	0.0500	mg/kg wet	2.500		99	70-130			
Chloroethane	2.98	0.100	mg/kg wet	2.500		119	70-130			
Chloroform	2.28	0.0500	mg/kg wet	2.500		91	70-130			
Chloromethane	2.47	0.100	mg/kg wet	2.500		99	70-130			
cis-1,2-Dichloroethene	2.92	0.0500	mg/kg wet	2.500		117	70-130			
cis-1,3-Dichloropropene	2.62	0.0500	mg/kg wet	2.500		105	70-130			
Dibromochloromethane	1.93	0.0500	mg/kg wet	2.500		77	70-130			
Dibromomethane	2.62	0.0500	mg/kg wet	2.500		105	70-130			
Dichlorodifluoromethane	2.53	0.0500	mg/kg wet	2.500		101	70-130			
Diethyl Ether	2.85	0.0500	mg/kg wet	2.500		114	70-130			
Di-isopropyl ether	2.86	0.0500	mg/kg wet	2.500		115	70-130			
Ethyl tertiary-butyl ether	2.93	0.0500	mg/kg wet	2.500		117	70-130			
Ethylbenzene	2.52	0.0500	mg/kg wet	2.500		101	70-130			
Hexachlorobutadiene	2.63	0.0500	mg/kg wet	2.500		105	70-130			
Isopropylbenzene	2.81	0.0500	mg/kg wet	2.500		112	70-130			
Methyl tert-Butyl Ether	2.95	0.0500	mg/kg wet	2.500		118	70-130			
Methylene Chloride	2.60	0.250	mg/kg wet	2.500		104	70-130			
Naphthalene	2.82	0.0500	mg/kg wet	2.500		113	70-130			
n-Butylbenzene	2.70	0.0500	mg/kg wet	2.500		108	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Methanol

Batch CL20420 - 5035

n-Propylbenzene	2.73	0.0500	mg/kg wet	2.500		109	70-130			
sec-Butylbenzene	2.78	0.0500	mg/kg wet	2.500		111	70-130			
Styrene	2.42	0.0500	mg/kg wet	2.500		97	70-130			
tert-Butylbenzene	2.80	0.0500	mg/kg wet	2.500		112	70-130			
Tertiary-amyl methyl ether	3.33	0.0500	mg/kg wet	2.500		133	70-130			B+
Tetrachloroethene	2.18	0.0500	mg/kg wet	2.500		87	70-130			
Tetrahydrofuran	2.81	0.500	mg/kg wet	2.500		112	70-130			
Toluene	2.88	0.0500	mg/kg wet	2.500		115	70-130			
trans-1,2-Dichloroethene	2.96	0.0500	mg/kg wet	2.500		118	70-130			
trans-1,3-Dichloropropene	2.13	0.0500	mg/kg wet	2.500		85	70-130			
Trichloroethene	2.56	0.0500	mg/kg wet	2.500		102	70-130			
Vinyl Acetate	2.96	0.250	mg/kg wet	2.500		119	70-130			
Vinyl Chloride	2.78	0.0500	mg/kg wet	2.500		111	70-130			
Xylene O	2.67	0.0500	mg/kg wet	2.500		107	70-130			
Xylene P,M	5.31	0.100	mg/kg wet	5.000		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	2.20		mg/kg wet	2.500		88	70-130			
Surrogate: 4-Bromofluorobenzene	2.43		mg/kg wet	2.500		97	70-130			
Surrogate: Dibromofluoromethane	2.73		mg/kg wet	2.500		109	70-130			
Surrogate: Toluene-d8	2.54		mg/kg wet	2.500		102	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	2.18	0.100	mg/kg wet	2.500		87	70-130	6	25	
1,1,1-Trichloroethane	2.42	0.0500	mg/kg wet	2.500		97	70-130	8	25	
1,1,2,2-Tetrachloroethane	2.72	0.0500	mg/kg wet	2.500		109	70-130	5	25	
1,1,2-Trichloroethane	2.91	0.0500	mg/kg wet	2.500		117	70-130	5	25	
1,1-Dichloroethane	2.78	0.0500	mg/kg wet	2.500		111	70-130	6	25	
1,1-Dichloroethene	3.29	0.0500	mg/kg wet	2.500		132	70-130	6	25	B+
1,1-Dichloropropene	3.24	0.0500	mg/kg wet	2.500		129	70-130	7	25	
1,2,3-Trichlorobenzene	2.98	0.0500	mg/kg wet	2.500		119	70-130	5	25	
1,2,3-Trichloropropane	2.58	0.0500	mg/kg wet	2.500		103	70-130	2	25	
1,2,4-Trichlorobenzene	3.08	0.0500	mg/kg wet	2.500		123	70-130	6	25	
1,2,4-Trimethylbenzene	2.82	0.0500	mg/kg wet	2.500		113	70-130	2	25	
1,2-Dibromo-3-Chloropropane	2.20	0.300	mg/kg wet	2.500		88	70-130	5	25	
1,2-Dibromoethane	2.81	0.0500	mg/kg wet	2.500		112	70-130	6	25	
1,2-Dichlorobenzene	2.75	0.0500	mg/kg wet	2.500		110	70-130	3	25	
1,2-Dichloroethane	2.38	0.0500	mg/kg wet	2.500		95	70-130	5	25	
1,2-Dichloropropane	2.83	0.0500	mg/kg wet	2.500		113	70-130	5	25	
1,3,5-Trimethylbenzene	2.86	0.0500	mg/kg wet	2.500		114	70-130	1	25	
1,3-Dichlorobenzene	2.73	0.0500	mg/kg wet	2.500		109	70-130	5	25	
1,3-Dichloropropane	2.61	0.0500	mg/kg wet	2.500		105	70-130	5	25	
1,4-Dichlorobenzene	2.47	0.0500	mg/kg wet	2.500		99	70-130	1	25	
1,4-Dioxane - Screen	60.9	5.00	mg/kg wet	50.00		122	44-241	3	200	
1-Chlorohexane	2.66	0.0500	mg/kg wet	2.500		106	70-130	5	25	
2,2-Dichloropropane	2.71	0.100	mg/kg wet	2.500		108	70-130	5	25	
2-Butanone	14.1	1.25	mg/kg wet	12.50		113	70-130	4	25	
2-Chlorotoluene	2.72	0.0500	mg/kg wet	2.500		109	70-130	1	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch CL20420 - 5035										
2-Hexanone	13.3	0.500	mg/kg wet	12.50		106	70-130	6	25	
4-Chlorotoluene	2.74	0.0500	mg/kg wet	2.500		109	70-130	3	25	
4-Isopropyltoluene	2.47	0.0500	mg/kg wet	2.500		99	70-130	2	25	
4-Methyl-2-Pentanone	14.4	0.500	mg/kg wet	12.50		115	70-130	5	25	
Acetone	12.7	1.25	mg/kg wet	12.50		102	70-130	3	25	
Benzene	2.93	0.0500	mg/kg wet	2.500		117	70-130	6	25	
Bromobenzene	2.73	0.0500	mg/kg wet	2.500		109	70-130	2	25	
Bromochloromethane	2.97	0.0500	mg/kg wet	2.500		119	70-130	6	25	
Bromodichloromethane	2.42	0.0500	mg/kg wet	2.500		97	70-130	7	25	
Bromoform	2.37	0.0500	mg/kg wet	2.500		95	70-130	8	25	
Bromomethane	3.07	0.100	mg/kg wet	2.500		123	70-130	7	25	
Carbon Disulfide	2.79	0.0500	mg/kg wet	2.500		112	70-130	8	25	
Carbon Tetrachloride	2.18	0.0500	mg/kg wet	2.500		87	70-130	5	25	
Chlorobenzene	2.64	0.0500	mg/kg wet	2.500		105	70-130	6	25	
Chloroethane	3.17	0.100	mg/kg wet	2.500		127	70-130	6	25	
Chloroform	2.43	0.0500	mg/kg wet	2.500		97	70-130	6	25	
Chloromethane	2.64	0.100	mg/kg wet	2.500		106	70-130	7	25	
cis-1,2-Dichloroethene	3.10	0.0500	mg/kg wet	2.500		124	70-130	6	25	
cis-1,3-Dichloropropene	2.79	0.0500	mg/kg wet	2.500		112	70-130	6	25	
Dibromochloromethane	2.08	0.0500	mg/kg wet	2.500		83	70-130	7	25	
Dibromomethane	2.79	0.0500	mg/kg wet	2.500		112	70-130	6	25	
Dichlorodifluoromethane	2.68	0.0500	mg/kg wet	2.500		107	70-130	6	25	
Diethyl Ether	2.99	0.0500	mg/kg wet	2.500		120	70-130	5	25	
Di-isopropyl ether	3.03	0.0500	mg/kg wet	2.500		121	70-130	6	25	
Ethyl tertiary-butyl ether	3.11	0.0500	mg/kg wet	2.500		124	70-130	6	25	
Ethylbenzene	2.71	0.0500	mg/kg wet	2.500		108	70-130	7	25	
Hexachlorobutadiene	2.74	0.0500	mg/kg wet	2.500		110	70-130	4	25	
Isopropylbenzene	2.85	0.0500	mg/kg wet	2.500		114	70-130	1	25	
Methyl tert-Butyl Ether	3.12	0.0500	mg/kg wet	2.500		125	70-130	5	25	
Methylene Chloride	2.79	0.250	mg/kg wet	2.500		112	70-130	7	25	
Naphthalene	2.94	0.0500	mg/kg wet	2.500		118	70-130	4	25	
n-Butylbenzene	2.76	0.0500	mg/kg wet	2.500		111	70-130	2	25	
n-Propylbenzene	2.77	0.0500	mg/kg wet	2.500		111	70-130	2	25	
sec-Butylbenzene	2.83	0.0500	mg/kg wet	2.500		113	70-130	2	25	
Styrene	2.58	0.0500	mg/kg wet	2.500		103	70-130	6	25	
tert-Butylbenzene	2.86	0.0500	mg/kg wet	2.500		114	70-130	2	25	
Tertiary-amyl methyl ether	3.49	0.0500	mg/kg wet	2.500		140	70-130	5	25	B+
Tetrachloroethene	2.29	0.0500	mg/kg wet	2.500		91	70-130	5	25	
Tetrahydrofuran	2.92	0.500	mg/kg wet	2.500		117	70-130	4	25	
Toluene	3.04	0.0500	mg/kg wet	2.500		122	70-130	6	25	
trans-1,2-Dichloroethene	3.21	0.0500	mg/kg wet	2.500		128	70-130	8	25	
trans-1,3-Dichloropropene	2.22	0.0500	mg/kg wet	2.500		89	70-130	4	25	
Trichloroethene	2.72	0.0500	mg/kg wet	2.500		109	70-130	6	25	
Vinyl Acetate	3.21	0.250	mg/kg wet	2.500		128	70-130	8	25	
Vinyl Chloride	2.95	0.0500	mg/kg wet	2.500		118	70-130	6	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Methanol

Batch CL20420 - 5035

Xylene O	2.84	0.0500	mg/kg wet	2.500		114	70-130	6	25	
Xylene P,M	5.66	0.100	mg/kg wet	5.000		113	70-130	7	25	
Surrogate: 1,2-Dichloroethane-d4	2.30		mg/kg wet	2.500		92	70-130			
Surrogate: 4-Bromofluorobenzene	2.58		mg/kg wet	2.500		103	70-130			
Surrogate: Dibromofluoromethane	2.91		mg/kg wet	2.500		117	70-130			
Surrogate: Toluene-d8	2.67		mg/kg wet	2.500		107	70-130			

8270C Polynuclear Aromatic Hydrocarbons

Batch CK22830 - 3546

Blank

Benzo(a)pyrene	ND	0.167	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.30		mg/kg wet	3.333		69	30-130			
Surrogate: 2-Fluorobiphenyl	2.47		mg/kg wet	3.333		74	30-130			
Surrogate: Nitrobenzene-d5	2.47		mg/kg wet	3.333		74	30-130			
Surrogate: p-Terphenyl-d14	3.37		mg/kg wet	3.333		101	30-130			

LCS

Benzo(a)pyrene	2.87	0.167	mg/kg wet	3.333		86	40-140			
Chrysene	3.10	0.167	mg/kg wet	3.333		93	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.71		mg/kg wet	3.333		81	30-130			
Surrogate: 2-Fluorobiphenyl	2.91		mg/kg wet	3.333		87	30-130			
Surrogate: Nitrobenzene-d5	2.94		mg/kg wet	3.333		88	30-130			
Surrogate: p-Terphenyl-d14	3.32		mg/kg wet	3.333		100	30-130			

LCS Dup

Benzo(a)pyrene	3.15	0.167	mg/kg wet	3.333		95	40-140	9	30	
Chrysene	3.38	0.167	mg/kg wet	3.333		101	40-140	9	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.73		mg/kg wet	3.333		82	30-130			
Surrogate: 2-Fluorobiphenyl	3.09		mg/kg wet	3.333		93	30-130			
Surrogate: Nitrobenzene-d5	3.04		mg/kg wet	3.333		91	30-130			
Surrogate: p-Terphenyl-d14	3.47		mg/kg wet	3.333		104	30-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

Notes and Definitions

- U Analyte included in the analysis, but not detected
- SC Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).
- J Reported between MDL and MRL; Estimated value.
- D Diluted.
- B+ Blank Spike recovery is above upper control limit (B+).
- B Present in Method Blank (B).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211445

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

Sample and Cooler Receipt Checklist

Client: Resource Controls
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 12110445
Date Project Due: 12/4/12
Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|--|-------------------------------|---|---|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> N/A |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input type="checkbox"/> No |
| Cooler Temp: <u>2.2</u> | | 16. Are ESS labels on correct containers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Iced With: <u>Icepacks</u> | | 17. Were samples received intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: _____ | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: _____ | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: _____ | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: _____ | |

18. Was there need to call project manager to discuss status? If yes, please explain.

Low levels were frozen 11/27/12 @ 1330.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	1	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	40 ml - VOA	2	other
2	Yes	8 oz Soil Jar	1	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	1	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	8 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	40 ml - VOA	1	MeOH
6	Yes	40 ml - VOA	1	other

Completed By: RF

Date/Time: 11/27/12

Reviewed By: OK

Date/Time: 11/27/12

CHAIN OF CUSTODY

Turn Time _____ Standard _____ Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy

Reporting Limits _____
 Electronic Deliverable Yes No _____
 Format: Excel Access _____ PDF Other _____
 ESS LAB PROJECT ID
 1211445

Co. Name	Project #	Project Name (20 Char. or less)	Type of Containers	Number of Containers	Type of Containers	Write Required Analysis	
Resource Controls	7131	BARDING TON					
Contact Person	474 BROADWAY						
City	State	Zip					
DANIEL BAYNES	RI	02860					
PO#	Email Address						
	daniel@resourcecontrols.com						
ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code
1	11/21	9:57		X	S	S-2 (8.3')	✓
2	11/21	10:25		X	S	S-3 (5.6')	✓
3	11/21	12:15		X	S	S-6 (5.0')	✓
4	11/21	13:06		X	S	S-8 (5.0')	✓
5	11/21	13:30		X	S	S-10 (7.0')	✓
6						Trip Blank RF 11/27	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes No _____ Internal Use Only
 Seals Intact Yes No NA: [Pickup [] Technicians _____
 Cooler Temp: 2-2.4

Relinquished by: (Signature) _____ Date/Time _____
 Received by: (Signature) _____ Date/Time _____
 Relinquished by: (Signature) _____ Date/Time _____
 Received by: (Signature) _____ Date/Time _____

Sampled by: DANIEL BAYNES & EMILY GARDNER
 Comments: SHEWAN THORP HOLD S-10 (7.0')



CERTIFICATE OF ANALYSIS

Daniel Boynes
Resource Controls
474 Broadway
Pawtucket, RI 02860-1377

RE: Barrington (7131)
ESS Laboratory Work Order Number: 1211448

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 5:25 pm, Dec 04, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

SAMPLE RECEIPT

The following samples were received on November 27, 2012 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1211448-01	MW-1	Ground Water	8260B
1211448-02	MW-2	Ground Water	8260B
1211448-03	MW-3	Ground Water	6010B, 7060A, 7470A, 8260B, 8270C, 8270C SIM
1211448-04	MW-4	Ground Water	6010B, 7060A, 7470A, 8260B, 8270C, 8270C SIM
1211448-05	MW-5	Ground Water	6010B, 7060A, 7470A, 8260B, 8270C, 8270C SIM
1211448-06	Trip Blank	Aqueous	8260B



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

PROJECT NARRATIVE

8260B Volatile Organic Compounds

- CK22716-BS1 [Blank Spike recovery is above upper control limit \(B+\).](#)
Acetone (135% @ 70-130%), Hexachloroethane (134% @ 70-130%)
- CK22716-BSD1 [Blank Spike recovery is above upper control limit \(B+\).](#)
Hexachloroethane (147% @ 70-130%), Vinyl Chloride (137% @ 70-130%)
- CVK0267-CCV1 [Continuing Calibration recovery is above upper control limit \(C+\).](#)
Chloroethane (180% @ 70-130%)

8270C Semi-Volatile Organic Compounds

- CVK0322-CCV1 [Calibration required quadratic regression \(Q\).](#)
2,4-Dinitrophenol (126% @ 70-130%), Hexachlorocyclopentadiene (76% @ 70-130%)

8270C(SIM) Semi-Volatile Organic Compounds

- 1211448-03 [Surrogate recovery\(ies\) above upper control limit \(S+\).](#)
2,4,6-Tribromophenol (126% @ 15-110%)
- 1211448-04 [Surrogate recovery\(ies\) above upper control limit \(S+\).](#)
2,4,6-Tribromophenol (135% @ 15-110%)
- 1211448-05 [Surrogate recovery\(ies\) above upper control limit \(S+\).](#)
2,4,6-Tribromophenol (138% @ 15-110%)
- CK22913-BLK1 [Surrogate recovery\(ies\) above upper control limit \(S+\).](#)
2,4,6-Tribromophenol (138% @ 15-110%)
- CK22913-BS1 [Surrogate recovery\(ies\) above upper control limit \(S+\).](#)
2,4,6-Tribromophenol (160% @ 15-110%)
- CK22913-BSD1 [Surrogate recovery\(ies\) above upper control limit \(S+\).](#)
2,4,6-Tribromophenol (158% @ 15-110%)
- CVK0313-CCV1 [Surrogate recovery\(ies\) above upper control limit \(S+\).](#)
2,4,6-Tribromophenol (168% @ 70-130%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH / VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5035 - Solid Purge and Trap



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-1
Date Sampled: 11/26/12 10:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,1,1-Trichloroethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,1,2,2-Tetrachloroethane	ND (0.0005)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,1,2-Trichloroethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,1-Dichloroethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,1-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,1-Dichloropropene	ND (0.0020)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,2,3-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,2,3-Trichloropropane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,2,4-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,2,4-Trimethylbenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,2-Dibromo-3-Chloropropane	ND (0.0050)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,2-Dibromoethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,2-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,2-Dichloroethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,3,5-Trimethylbenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,3-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,3-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,4-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1,4-Dioxane - Screen	ND (0.500)	8260B		1	11/27/12 16:21	CVK0267	CK22716
1-Chlorohexane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
2,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
2-Butanone	ND (0.0100)	8260B		1	11/27/12 16:21	CVK0267	CK22716
2-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
2-Hexanone	ND (0.0100)	8260B		1	11/27/12 16:21	CVK0267	CK22716
4-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
4-Isopropyltoluene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
4-Methyl-2-Pentanone	ND (0.0250)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Acetone	ND (0.0100)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Benzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-1
Date Sampled: 11/26/12 10:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0020)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Bromochloromethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Bromodichloromethane	ND (0.0006)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Bromoform	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Bromomethane	ND (0.0020)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Carbon Disulfide	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Carbon Tetrachloride	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Chlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Chloroethane	ND (0.0020)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Chloroform	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Chloromethane	ND (0.0020)	8260B		1	11/27/12 16:21	CVK0267	CK22716
cis-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
cis-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Dibromochloromethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Dibromomethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Dichlorodifluoromethane	ND (0.0020)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Diethyl Ether	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Di-isopropyl ether	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Ethyl tertiary-butyl ether	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Ethylbenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Hexachlorobutadiene	ND (0.0006)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Hexachloroethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Isopropylbenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Methyl tert-Butyl Ether	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Methylene Chloride	ND (0.0020)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Naphthalene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
n-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
n-Propylbenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
sec-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Styrene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
tert-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: MW-1
 Date Sampled: 11/26/12 10:05
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
 ESS Laboratory Sample ID: 1211448-01
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tertiary-amyl methyl ether	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Tetrachloroethene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Tetrahydrofuran	ND (0.0050)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Toluene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
trans-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
trans-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Trichloroethene	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Trichlorofluoromethane	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Vinyl Acetate	ND (0.0050)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Vinyl Chloride	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Xylene O	ND (0.0010)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Xylene P,M	ND (0.0020)	8260B		1	11/27/12 16:21	CVK0267	CK22716
Xylenes (Total)	ND (0.0030)	8260B		1	11/27/12 16:21		[CALC]
Trihalomethanes (Total)	ND (0.0036)	8260B			11/27/12 16:21		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>103 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-2
Date Sampled: 11/26/12 10:40
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,1,1-Trichloroethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,1,2,2-Tetrachloroethane	ND (0.0005)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,1,2-Trichloroethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,1-Dichloroethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,1-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,1-Dichloropropene	ND (0.0020)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,2,3-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,2,3-Trichloropropane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,2,4-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,2,4-Trimethylbenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,2-Dibromo-3-Chloropropane	ND (0.0050)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,2-Dibromoethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,2-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,2-Dichloroethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,3,5-Trimethylbenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,3-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,3-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,4-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1,4-Dioxane - Screen	ND (0.500)	8260B		1	11/27/12 16:49	CVK0267	CK22716
1-Chlorohexane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
2,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
2-Butanone	ND (0.0100)	8260B		1	11/27/12 16:49	CVK0267	CK22716
2-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
2-Hexanone	ND (0.0100)	8260B		1	11/27/12 16:49	CVK0267	CK22716
4-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
4-Isopropyltoluene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
4-Methyl-2-Pentanone	ND (0.0250)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Acetone	0.0104 (0.0100)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Benzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-2
Date Sampled: 11/26/12 10:40
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0020)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Bromochloromethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Bromodichloromethane	ND (0.0006)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Bromoform	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Bromomethane	ND (0.0020)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Carbon Disulfide	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Carbon Tetrachloride	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Chlorobenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Chloroethane	ND (0.0020)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Chloroform	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Chloromethane	ND (0.0020)	8260B		1	11/27/12 16:49	CVK0267	CK22716
cis-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
cis-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Dibromochloromethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Dibromomethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Dichlorodifluoromethane	ND (0.0020)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Diethyl Ether	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Di-isopropyl ether	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Ethyl tertiary-butyl ether	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Ethylbenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Hexachlorobutadiene	ND (0.0006)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Hexachloroethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Isopropylbenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Methyl tert-Butyl Ether	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Methylene Chloride	ND (0.0020)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Naphthalene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
n-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
n-Propylbenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
sec-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Styrene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
tert-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: MW-2
 Date Sampled: 11/26/12 10:40
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
 ESS Laboratory Sample ID: 1211448-02
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tertiary-amyl methyl ether	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Tetrachloroethene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Tetrahydrofuran	ND (0.0050)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Toluene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
trans-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
trans-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Trichloroethene	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Trichlorofluoromethane	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Vinyl Acetate	ND (0.0050)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Vinyl Chloride	ND (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Xylene O	0.0010 (0.0010)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Xylene P,M	ND (0.0020)	8260B		1	11/27/12 16:49	CVK0267	CK22716
Xylenes (Total)	ND (0.0030)	8260B		1	11/27/12 16:49		[CALC]
Trihalomethanes (Total)	ND (0.0036)	8260B			11/27/12 16:49		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	109 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	104 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	111 %		70-130
<i>Surrogate: Toluene-d8</i>	106 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 11/26/12 10:50
Percent Solids: N/A

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-03
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0065 (0.0025)	7060A		1	JP	11/29/12 15:44	50	25	CK22733
Barium	0.096 (0.025)	6010B		1	SVD	11/28/12 14:13	50	25	CK22733
Cadmium	ND (0.0025)	6010B		1	SVD	11/28/12 14:13	50	25	CK22733
Chromium	ND (0.010)	6010B		1	SVD	11/28/12 14:13	50	25	CK22733
Lead	0.053 (0.010)	6010B		1	SVD	11/28/12 14:13	50	25	CK22733
Mercury	ND (0.00050)	7470A		1	KJK	12/01/12 16:12	20	40	CK23009
Selenium	ND (0.025)	6010B		1	SVD	11/28/12 14:13	50	25	CK22733
Silver	ND (0.005)	6010B		1	SVD	11/28/12 14:13	50	25	CK22733



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 11/26/12 10:50
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,1,1-Trichloroethane	0.0012 (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,1,2,2-Tetrachloroethane	ND (0.0005)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,1,2-Trichloroethane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,1-Dichloroethane	0.0030 (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,1-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,1-Dichloropropene	ND (0.0020)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,2,3-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,2,3-Trichloropropane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,2,4-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,2,4-Trimethylbenzene	0.0010 (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,2-Dibromo-3-Chloropropane	ND (0.0050)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,2-Dibromoethane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,2-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,2-Dichloroethane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,3,5-Trimethylbenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,3-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,3-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,4-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1,4-Dioxane - Screen	ND (0.500)	8260B		1	11/27/12 17:16	CVK0267	CK22716
1-Chlorohexane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
2,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
2-Butanone	ND (0.0100)	8260B		1	11/27/12 17:16	CVK0267	CK22716
2-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
2-Hexanone	ND (0.0100)	8260B		1	11/27/12 17:16	CVK0267	CK22716
4-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
4-Isopropyltoluene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
4-Methyl-2-Pentanone	ND (0.0250)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Acetone	0.102 (0.0100)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Benzene	0.0011 (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 11/26/12 10:50
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0020)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Bromochloromethane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Bromodichloromethane	ND (0.0006)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Bromoform	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Bromomethane	ND (0.0020)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Carbon Disulfide	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Carbon Tetrachloride	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Chlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Chloroethane	ND (0.0020)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Chloroform	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Chloromethane	ND (0.0020)	8260B		1	11/27/12 17:16	CVK0267	CK22716
cis-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
cis-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Dibromochloromethane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Dibromomethane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Dichlorodifluoromethane	ND (0.0020)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Diethyl Ether	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Di-isopropyl ether	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Ethyl tertiary-butyl ether	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Ethylbenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Hexachlorobutadiene	ND (0.0006)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Hexachloroethane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Isopropylbenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Methyl tert-Butyl Ether	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Methylene Chloride	ND (0.0020)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Naphthalene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
n-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
n-Propylbenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
sec-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Styrene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
tert-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 11/26/12 10:50
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tertiary-amyl methyl ether	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Tetrachloroethene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Tetrahydrofuran	ND (0.0050)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Toluene	0.0011 (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
trans-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
trans-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Trichloroethene	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Trichlorofluoromethane	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Vinyl Acetate	ND (0.0050)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Vinyl Chloride	ND (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Xylene O	0.0022 (0.0010)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Xylene P,M	0.0036 (0.0020)	8260B		1	11/27/12 17:16	CVK0267	CK22716
Xylenes (Total)	0.0058 (0.0030)	8260B		1	11/27/12 17:16		[CALC]
Trihalomethanes (Total)	ND (0.0036)	8260B			11/27/12 17:16		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	104 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	108 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	108 %		70-130
<i>Surrogate: Toluene-d8</i>	107 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 11/26/12 10:50
Percent Solids: N/A
Initial Volume: 990
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: ML
Prepared: 11/29/12 18:00

8270C Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
1,2,4-Trichlorobenzene	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
1,2-Dichlorobenzene	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
1,3-Dichlorobenzene	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
1,4-Dichlorobenzene	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2,3,4,6-Tetrachlorophenol	ND (0.051)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2,4,5-Trichlorophenol	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2,4,6-Trichlorophenol	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2,4-Dichlorophenol	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2,4-Dimethylphenol	ND (0.051)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2,4-Dinitrophenol	ND (0.051)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2,4-Dinitrotoluene	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2,6-Dinitrotoluene	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2-Chloronaphthalene	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2-Chlorophenol	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2-Methylphenol	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2-Nitroaniline	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
2-Nitrophenol	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
3,3'-Dichlorobenzidine	ND (0.020)	8270C		1	11/30/12 21:54	CVK0322	CK22923
3+4-Methylphenol	ND (0.020)	8270C		1	11/30/12 21:54	CVK0322	CK22923
3-Nitroaniline	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
4,6-Dinitro-2-Methylphenol	ND (0.051)	8270C		1	11/30/12 21:54	CVK0322	CK22923
4-Bromophenyl-phenylether	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
4-Chloro-3-Methylphenol	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
4-Chloroaniline	ND (0.020)	8270C		1	11/30/12 21:54	CVK0322	CK22923
4-Chloro-phenyl-phenyl ether	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
4-Nitroaniline	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
4-Nitrophenol	ND (0.051)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Acetophenone	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Aniline	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Azobenzene	ND (0.020)	8270C		1	11/30/12 21:54	CVK0322	CK22923



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 11/26/12 10:50
Percent Solids: N/A
Initial Volume: 990
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: ML
Prepared: 11/29/12 18:00

8270C Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Benzoic Acid	ND (0.101)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Benzyl Alcohol	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
bis(2-Chloroethoxy)methane	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
bis(2-Chloroethyl)ether	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
bis(2-chloroisopropyl)Ether	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
bis(2-Ethylhexyl)phthalate	ND (0.006)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Butylbenzylphthalate	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Carbazole	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Dibenzofuran	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Diethylphthalate	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Dimethylphthalate	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Di-n-butylphthalate	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Di-n-octylphthalate	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Hexachlorobutadiene	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Hexachlorocyclopentadiene	ND (0.025)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Hexachloroethane	ND (0.005)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Isophorone	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Nitrobenzene	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
N-Nitrosodimethylamine	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
N-Nitroso-Di-n-Propylamine	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
N-nitrosodiphenylamine	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Phenol	ND (0.010)	8270C		1	11/30/12 21:54	CVK0322	CK22923
Pyridine	ND (0.101)	8270C		1	11/30/12 21:54	CVK0322	CK22923

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	76 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	93 %		15-110
<i>Surrogate: 2-Chlorophenol-d4</i>	77 %		15-110
<i>Surrogate: 2-Fluorobiphenyl</i>	86 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	64 %		15-110
<i>Surrogate: Nitrobenzene-d5</i>	91 %		30-130
<i>Surrogate: Phenol-d6</i>	85 %		15-110
<i>Surrogate: p-Terphenyl-d14</i>	73 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 11/26/12 10:50
Percent Solids: N/A
Initial Volume: 990
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: IBM
Prepared: 11/29/12 15:00

8270C(SIM) Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Acenaphthene	ND (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Acenaphthylene	0.00030 (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Anthracene	ND (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Benzo(a)anthracene	ND (0.00005)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Benzo(a)pyrene	0.00008 (0.00005)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Benzo(b)fluoranthene	0.00015 (0.00005)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Benzo(g,h,i)perylene	ND (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Benzo(k)fluoranthene	0.00005 (0.00005)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Chrysene	0.00009 (0.00005)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Dibenzo(a,h)Anthracene	ND (0.00005)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Fluoranthene	ND (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Fluorene	ND (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Hexachlorobenzene	ND (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Indeno(1,2,3-cd)Pyrene	0.00007 (0.00005)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Naphthalene	0.00062 (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Pentachlorophenol	ND (0.00101)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Phenanthrene	ND (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913
Pyrene	ND (0.00020)	8270C SIM		1	11/30/12 21:39	CVK0313	CK22913

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	47 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	126 %	S+	15-110
<i>Surrogate: 2-Fluorobiphenyl</i>	89 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	74 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	81 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-4
Date Sampled: 11/26/12 12:05
Percent Solids: N/A

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-04
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0146 (0.0025)	7060A		1	JP	11/29/12 15:55	50	25	CK22733
Barium	0.096 (0.025)	6010B		1	SVD	11/28/12 14:18	50	25	CK22733
Cadmium	ND (0.0025)	6010B		1	SVD	11/28/12 14:18	50	25	CK22733
Chromium	0.010 (0.010)	6010B		1	SVD	11/28/12 14:18	50	25	CK22733
Lead	0.012 (0.010)	6010B		1	SVD	11/28/12 14:18	50	25	CK22733
Mercury	ND (0.00050)	7470A		1	KJK	12/01/12 14:02	20	40	CK23009
Selenium	ND (0.025)	6010B		1	SVD	11/28/12 14:18	50	25	CK22733
Silver	ND (0.005)	6010B		1	SVD	11/28/12 14:18	50	25	CK22733



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-4
Date Sampled: 11/26/12 12:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,1,1-Trichloroethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,1,2,2-Tetrachloroethane	ND (0.0005)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,1,2-Trichloroethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,1-Dichloroethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,1-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,1-Dichloropropene	ND (0.0020)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,2,3-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,2,3-Trichloropropane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,2,4-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,2,4-Trimethylbenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,2-Dibromo-3-Chloropropane	ND (0.0050)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,2-Dibromoethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,2-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,2-Dichloroethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,3,5-Trimethylbenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,3-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,3-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,4-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1,4-Dioxane - Screen	ND (0.500)	8260B		1	11/27/12 17:43	CVK0267	CK22716
1-Chlorohexane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
2,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
2-Butanone	ND (0.0100)	8260B		1	11/27/12 17:43	CVK0267	CK22716
2-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
2-Hexanone	ND (0.0100)	8260B		1	11/27/12 17:43	CVK0267	CK22716
4-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
4-Isopropyltoluene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
4-Methyl-2-Pentanone	ND (0.0250)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Acetone	ND (0.0100)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Benzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-4
Date Sampled: 11/26/12 12:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0020)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Bromochloromethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Bromodichloromethane	ND (0.0006)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Bromoform	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Bromomethane	ND (0.0020)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Carbon Disulfide	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Carbon Tetrachloride	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Chlorobenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Chloroethane	ND (0.0020)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Chloroform	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Chloromethane	ND (0.0020)	8260B		1	11/27/12 17:43	CVK0267	CK22716
cis-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
cis-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Dibromochloromethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Dibromomethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Dichlorodifluoromethane	ND (0.0020)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Diethyl Ether	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Di-isopropyl ether	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Ethyl tertiary-butyl ether	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Ethylbenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Hexachlorobutadiene	ND (0.0006)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Hexachloroethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Isopropylbenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Methyl tert-Butyl Ether	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Methylene Chloride	ND (0.0020)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Naphthalene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
n-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
n-Propylbenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
sec-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Styrene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
tert-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: MW-4
 Date Sampled: 11/26/12 12:05
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
 ESS Laboratory Sample ID: 1211448-04
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tertiary-amyl methyl ether	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Tetrachloroethene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Tetrahydrofuran	ND (0.0050)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Toluene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
trans-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
trans-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Trichloroethene	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Trichlorofluoromethane	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Vinyl Acetate	ND (0.0050)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Vinyl Chloride	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Xylene O	ND (0.0010)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Xylene P,M	ND (0.0020)	8260B		1	11/27/12 17:43	CVK0267	CK22716
Xylenes (Total)	ND (0.0030)	8260B		1	11/27/12 17:43		[CALC]
Trihalomethanes (Total)	ND (0.0036)	8260B			11/27/12 17:43		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	104 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	109 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	108 %		70-130
<i>Surrogate: Toluene-d8</i>	108 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-4
Date Sampled: 11/26/12 12:05
Percent Solids: N/A
Initial Volume: 850
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: ML
Prepared: 11/29/12 18:00

8270C Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
1,2,4-Trichlorobenzene	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
1,2-Dichlorobenzene	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
1,3-Dichlorobenzene	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
1,4-Dichlorobenzene	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2,3,4,6-Tetrachlorophenol	ND (0.059)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2,4,5-Trichlorophenol	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2,4,6-Trichlorophenol	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2,4-Dichlorophenol	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2,4-Dimethylphenol	ND (0.059)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2,4-Dinitrophenol	ND (0.059)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2,4-Dinitrotoluene	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2,6-Dinitrotoluene	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2-Chloronaphthalene	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2-Chlorophenol	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2-Methylphenol	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2-Nitroaniline	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
2-Nitrophenol	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
3,3'-Dichlorobenzidine	ND (0.024)	8270C		1	11/30/12 19:09	CVK0322	CK22923
3+4-Methylphenol	ND (0.024)	8270C		1	11/30/12 19:09	CVK0322	CK22923
3-Nitroaniline	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
4,6-Dinitro-2-Methylphenol	ND (0.059)	8270C		1	11/30/12 19:09	CVK0322	CK22923
4-Bromophenyl-phenylether	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
4-Chloro-3-Methylphenol	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
4-Chloroaniline	ND (0.024)	8270C		1	11/30/12 19:09	CVK0322	CK22923
4-Chloro-phenyl-phenyl ether	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
4-Nitroaniline	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
4-Nitrophenol	ND (0.059)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Acetophenone	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Aniline	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Azobenzene	ND (0.024)	8270C		1	11/30/12 19:09	CVK0322	CK22923



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-4
Date Sampled: 11/26/12 12:05
Percent Solids: N/A
Initial Volume: 850
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: ML
Prepared: 11/29/12 18:00

8270C Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Benzoic Acid	ND (0.118)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Benzyl Alcohol	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
bis(2-Chloroethoxy)methane	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
bis(2-Chloroethyl)ether	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
bis(2-chloroisopropyl)Ether	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
bis(2-Ethylhexyl)phthalate	ND (0.007)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Butylbenzylphthalate	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Carbazole	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Dibenzofuran	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Diethylphthalate	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Dimethylphthalate	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Di-n-butylphthalate	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Di-n-octylphthalate	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Hexachlorobutadiene	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Hexachlorocyclopentadiene	ND (0.029)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Hexachloroethane	ND (0.006)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Isophorone	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Nitrobenzene	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
N-Nitrosodimethylamine	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
N-Nitroso-Di-n-Propylamine	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
N-nitrosodiphenylamine	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Phenol	ND (0.012)	8270C		1	11/30/12 19:09	CVK0322	CK22923
Pyridine	ND (0.118)	8270C		1	11/30/12 19:09	CVK0322	CK22923

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	72 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	86 %		15-110
<i>Surrogate: 2-Chlorophenol-d4</i>	68 %		15-110
<i>Surrogate: 2-Fluorobiphenyl</i>	77 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	55 %		15-110
<i>Surrogate: Nitrobenzene-d5</i>	83 %		30-130
<i>Surrogate: Phenol-d6</i>	75 %		15-110
<i>Surrogate: p-Terphenyl-d14</i>	84 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-4
Date Sampled: 11/26/12 12:05
Percent Solids: N/A
Initial Volume: 950
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: IBM
Prepared: 11/29/12 15:00

8270C(SIM) Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Acenaphthene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Acenaphthylene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Anthracene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Benzo(a)anthracene	0.00008 (0.00005)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Benzo(a)pyrene	ND (0.00005)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Benzo(b)fluoranthene	0.00010 (0.00005)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Benzo(g,h,i)perylene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Benzo(k)fluoranthene	ND (0.00005)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Chrysene	0.00010 (0.00005)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Dibenzo(a,h)Anthracene	ND (0.00005)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Fluoranthene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Fluorene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Hexachlorobenzene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Indeno(1,2,3-cd)Pyrene	ND (0.00005)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Naphthalene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Pentachlorophenol	ND (0.00105)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Phenanthrene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913
Pyrene	ND (0.00021)	8270C SIM		1	11/30/12 20:09	CVK0313	CK22913

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	48 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	135 %	S+	15-110
<i>Surrogate: 2-Fluorobiphenyl</i>	73 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	84 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	87 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 11/26/12 11:40
Percent Solids: N/A

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-05
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0025)	7060A		1	JP	11/29/12 16:01	50	25	CK22733
Barium	0.035 (0.025)	6010B		1	SVD	11/28/12 14:24	50	25	CK22733
Cadmium	ND (0.0025)	6010B		1	SVD	11/28/12 14:24	50	25	CK22733
Chromium	ND (0.010)	6010B		1	SVD	11/28/12 14:24	50	25	CK22733
Lead	ND (0.010)	6010B		1	SVD	11/28/12 14:24	50	25	CK22733
Mercury	ND (0.00050)	7470A		1	KJK	12/01/12 14:04	20	40	CK23009
Selenium	ND (0.025)	6010B		1	SVD	11/28/12 14:24	50	25	CK22733
Silver	ND (0.005)	6010B		1	SVD	11/28/12 14:24	50	25	CK22733



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 11/26/12 11:40
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,1,1-Trichloroethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,1,2,2-Tetrachloroethane	ND (0.0005)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,1,2-Trichloroethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,1-Dichloroethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,1-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,1-Dichloropropene	ND (0.0020)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,2,3-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,2,3-Trichloropropane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,2,4-Trichlorobenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,2,4-Trimethylbenzene	0.0045 (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,2-Dibromo-3-Chloropropane	ND (0.0050)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,2-Dibromoethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,2-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,2-Dichloroethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,3,5-Trimethylbenzene	0.139 (0.0100)	8260B		10	11/28/12 18:25	CVK0267	CK22716
1,3-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,3-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,4-Dichlorobenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1,4-Dioxane - Screen	ND (0.500)	8260B		1	11/27/12 18:10	CVK0267	CK22716
1-Chlorohexane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
2,2-Dichloropropane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
2-Butanone	ND (0.0100)	8260B		1	11/27/12 18:10	CVK0267	CK22716
2-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
2-Hexanone	ND (0.0100)	8260B		1	11/27/12 18:10	CVK0267	CK22716
4-Chlorotoluene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
4-Isopropyltoluene	0.0094 (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
4-Methyl-2-Pentanone	ND (0.0250)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Acetone	ND (0.0100)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Benzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 11/26/12 11:40
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0020)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Bromochloromethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Bromodichloromethane	ND (0.0006)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Bromoform	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Bromomethane	ND (0.0020)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Carbon Disulfide	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Carbon Tetrachloride	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Chlorobenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Chloroethane	ND (0.0020)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Chloroform	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Chloromethane	ND (0.0020)	8260B		1	11/27/12 18:10	CVK0267	CK22716
cis-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
cis-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Dibromochloromethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Dibromomethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Dichlorodifluoromethane	ND (0.0020)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Diethyl Ether	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Di-isopropyl ether	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Ethyl tertiary-butyl ether	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Ethylbenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Hexachlorobutadiene	ND (0.0006)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Hexachloroethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Isopropylbenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Methyl tert-Butyl Ether	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Methylene Chloride	ND (0.0020)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Naphthalene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
n-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
n-Propylbenzene	0.0013 (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
sec-Butylbenzene	0.0013 (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Styrene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
tert-Butylbenzene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: MW-5
 Date Sampled: 11/26/12 11:40
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
 ESS Laboratory Sample ID: 1211448-05
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tertiary-amyl methyl ether	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Tetrachloroethene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Tetrahydrofuran	ND (0.0050)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Toluene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
trans-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
trans-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Trichloroethene	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Trichlorofluoromethane	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Vinyl Acetate	ND (0.0050)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Vinyl Chloride	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Xylene O	ND (0.0010)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Xylene P,M	ND (0.0020)	8260B		1	11/27/12 18:10	CVK0267	CK22716
Xylenes (Total)	ND (0.0030)	8260B		1	11/27/12 18:10		[CALC]
Trihalomethanes (Total)	ND (0.0036)	8260B			11/27/12 18:10		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>107 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>118 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 11/26/12 11:40
Percent Solids: N/A
Initial Volume: 990
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: ML
Prepared: 11/29/12 18:00

8270C Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
1,2,4-Trichlorobenzene	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
1,2-Dichlorobenzene	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
1,3-Dichlorobenzene	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
1,4-Dichlorobenzene	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2,3,4,6-Tetrachlorophenol	ND (0.051)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2,4,5-Trichlorophenol	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2,4,6-Trichlorophenol	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2,4-Dichlorophenol	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2,4-Dimethylphenol	ND (0.051)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2,4-Dinitrophenol	ND (0.051)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2,4-Dinitrotoluene	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2,6-Dinitrotoluene	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2-Chloronaphthalene	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2-Chlorophenol	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2-Methylphenol	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2-Nitroaniline	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
2-Nitrophenol	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
3,3'-Dichlorobenzidine	ND (0.020)	8270C		1	11/30/12 19:42	CVK0322	CK22923
3+4-Methylphenol	ND (0.020)	8270C		1	11/30/12 19:42	CVK0322	CK22923
3-Nitroaniline	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
4,6-Dinitro-2-Methylphenol	ND (0.051)	8270C		1	11/30/12 19:42	CVK0322	CK22923
4-Bromophenyl-phenylether	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
4-Chloro-3-Methylphenol	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
4-Chloroaniline	ND (0.020)	8270C		1	11/30/12 19:42	CVK0322	CK22923
4-Chloro-phenyl-phenyl ether	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
4-Nitroaniline	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
4-Nitrophenol	ND (0.051)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Acetophenone	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Aniline	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Azobenzene	ND (0.020)	8270C		1	11/30/12 19:42	CVK0322	CK22923



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 11/26/12 11:40
Percent Solids: N/A
Initial Volume: 990
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: ML
Prepared: 11/29/12 18:00

8270C Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Benzoic Acid	ND (0.101)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Benzyl Alcohol	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
bis(2-Chloroethoxy)methane	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
bis(2-Chloroethyl)ether	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
bis(2-chloroisopropyl)Ether	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
bis(2-Ethylhexyl)phthalate	ND (0.006)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Butylbenzylphthalate	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Carbazole	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Dibenzofuran	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Diethylphthalate	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Dimethylphthalate	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Di-n-butylphthalate	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Di-n-octylphthalate	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Hexachlorobutadiene	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Hexachlorocyclopentadiene	ND (0.025)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Hexachloroethane	ND (0.005)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Isophorone	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Nitrobenzene	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
N-Nitrosodimethylamine	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
N-Nitroso-Di-n-Propylamine	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
N-nitrosodiphenylamine	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Phenol	ND (0.010)	8270C		1	11/30/12 19:42	CVK0322	CK22923
Pyridine	ND (0.101)	8270C		1	11/30/12 19:42	CVK0322	CK22923

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	68 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	90 %		15-110
<i>Surrogate: 2-Chlorophenol-d4</i>	71 %		15-110
<i>Surrogate: 2-Fluorobiphenyl</i>	78 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	62 %		15-110
<i>Surrogate: Nitrobenzene-d5</i>	79 %		30-130
<i>Surrogate: Phenol-d6</i>	77 %		15-110
<i>Surrogate: p-Terphenyl-d14</i>	101 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 11/26/12 11:40
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: IBM
Prepared: 11/29/12 15:00

8270C(SIM) Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	0.00263 (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Acenaphthene	0.00029 (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Acenaphthylene	ND (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Anthracene	ND (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Benzo(a)anthracene	ND (0.00005)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Benzo(a)pyrene	ND (0.00005)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Benzo(b)fluoranthene	ND (0.00005)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Benzo(g,h,i)perylene	ND (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Benzo(k)fluoranthene	ND (0.00005)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Chrysene	ND (0.00005)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Dibenzo(a,h)Anthracene	ND (0.00005)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Fluoranthene	ND (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Fluorene	ND (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Hexachlorobenzene	ND (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Indeno(1,2,3-cd)Pyrene	ND (0.00005)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Naphthalene	0.00127 (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Pentachlorophenol	ND (0.00100)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Phenanthrene	ND (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913
Pyrene	ND (0.00020)	8270C SIM		1	11/30/12 20:54	CVK0313	CK22913

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	74 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	138 %	S+	15-110
<i>Surrogate: 2-Fluorobiphenyl</i>	75 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	79 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	86 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: Trip Blank
Date Sampled: 11/26/12 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-06
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,1,1-Trichloroethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,1,2,2-Tetrachloroethane	ND (0.0005)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,1,2-Trichloroethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,1-Dichloroethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,1-Dichloroethene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,1-Dichloropropene	ND (0.0020)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,2,3-Trichlorobenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,2,3-Trichloropropane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,2,4-Trichlorobenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,2,4-Trimethylbenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,2-Dibromo-3-Chloropropane	ND (0.0050)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,2-Dibromoethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,2-Dichlorobenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,2-Dichloroethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,2-Dichloropropane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,3,5-Trimethylbenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,3-Dichlorobenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,3-Dichloropropane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,4-Dichlorobenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1,4-Dioxane - Screen	ND (0.500)	8260B		1	11/28/12 16:16	CVK0289	CK22807
1-Chlorohexane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
2,2-Dichloropropane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
2-Butanone	ND (0.0100)	8260B		1	11/28/12 16:16	CVK0289	CK22807
2-Chlorotoluene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
2-Hexanone	ND (0.0100)	8260B		1	11/28/12 16:16	CVK0289	CK22807
4-Chlorotoluene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
4-Isopropyltoluene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
4-Methyl-2-Pentanone	ND (0.0250)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Acetone	ND (0.0100)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Benzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: Trip Blank
Date Sampled: 11/26/12 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
ESS Laboratory Sample ID: 1211448-06
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0020)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Bromochloromethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Bromodichloromethane	ND (0.0006)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Bromoform	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Bromomethane	ND (0.0020)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Carbon Disulfide	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Carbon Tetrachloride	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Chlorobenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Chloroethane	ND (0.0020)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Chloroform	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Chloromethane	ND (0.0020)	8260B		1	11/28/12 16:16	CVK0289	CK22807
cis-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
cis-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Dibromochloromethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Dibromomethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Dichlorodifluoromethane	ND (0.0020)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Diethyl Ether	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Di-isopropyl ether	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Ethyl tertiary-butyl ether	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Ethylbenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Hexachlorobutadiene	ND (0.0006)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Hexachloroethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Isopropylbenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Methyl tert-Butyl Ether	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Methylene Chloride	ND (0.0020)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Naphthalene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
n-Butylbenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
n-Propylbenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
sec-Butylbenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Styrene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
tert-Butylbenzene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington
 Client Sample ID: Trip Blank
 Date Sampled: 11/26/12 00:00
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1211448
 ESS Laboratory Sample ID: 1211448-06
 Sample Matrix: Aqueous
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tertiary-amyl methyl ether	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Tetrachloroethene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Tetrahydrofuran	ND (0.0050)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Toluene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
trans-1,2-Dichloroethene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
trans-1,3-Dichloropropene	ND (0.0004)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Trichloroethene	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Trichlorofluoromethane	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Vinyl Acetate	ND (0.0050)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Vinyl Chloride	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Xylene O	ND (0.0010)	8260B		1	11/28/12 16:16	CVK0289	CK22807
Xylene P,M	ND (0.0020)	8260B		1	11/28/12 16:16	CVK0289	CK22807

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>89 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>88 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>97 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals Aqueous

Batch CK22733 - 3005A

Blank

Arsenic	ND	0.0025	mg/L							
Barium	ND	0.025	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							

LCS

Barium	0.256	0.025	mg/L	0.2500		102	80-120			
Cadmium	0.132	0.0025	mg/L	0.1250		106	80-120			
Chromium	0.255	0.010	mg/L	0.2500		102	80-120			
Lead	0.258	0.010	mg/L	0.2500		103	80-120			
Selenium	0.515	0.025	mg/L	0.5000		103	80-120			
Silver	0.131	0.005	mg/L	0.1250		105	80-120			

LCS

Arsenic	0.0101	0.0025	mg/L	0.01000		101	80-120			
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LCS Dup

Barium	0.258	0.025	mg/L	0.2500		103	80-120	0.9	20	
Cadmium	0.133	0.0025	mg/L	0.1250		106	80-120	0.7	20	
Chromium	0.257	0.010	mg/L	0.2500		103	80-120	0.8	20	
Lead	0.259	0.010	mg/L	0.2500		104	80-120	0.2	20	
Selenium	0.513	0.025	mg/L	0.5000		103	80-120	0.3	20	
Silver	0.132	0.005	mg/L	0.1250		106	80-120	0.9	20	

LCS Dup

Arsenic	0.0099	0.0025	mg/L	0.01000		99	80-120	2	20	
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Batch CK23009 - 245.1/7470A

Blank

Mercury	ND	0.00050	mg/L							
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LCS

Mercury	0.00561	0.00050	mg/L	0.006000		94	80-120			
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LCS Dup

Mercury	0.00591	0.00050	mg/L	0.006000		98	80-120	5	20	
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8260B Volatile Organic Compounds

Batch CK22716 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CK22716 - 5030B

1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0250	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							
Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CK22716 - 5030B

Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0259		mg/L	0.02500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0260		mg/L	0.02500		104	70-130			
Surrogate: Dibromofluoromethane	0.0263		mg/L	0.02500		105	70-130			
Surrogate: Toluene-d8	0.0268		mg/L	0.02500		107	70-130			

LCS

1,1,1,2-Tetrachloroethane	10.3		ug/L	10.00		103	70-130			
1,1,1-Trichloroethane	10.5		ug/L	10.00		105	70-130			
1,1,2,2-Tetrachloroethane	11.4		ug/L	10.00		114	70-130			
1,1,2-Trichloroethane	10.3		ug/L	10.00		103	70-130			
1,1-Dichloroethane	11.0		ug/L	10.00		110	70-130			
1,1-Dichloroethene	11.0		ug/L	10.00		110	70-130			
1,1-Dichloropropene	11.4		ug/L	10.00		114	70-130			
1,2,3-Trichlorobenzene	10.2		ug/L	10.00		102	70-130			
1,2,3-Trichloropropane	11.0		ug/L	10.00		110	70-130			
1,2,4-Trichlorobenzene	9.91		ug/L	10.00		99	70-130			
1,2,4-Trimethylbenzene	10.3		ug/L	10.00		103	70-130			
1,2-Dibromo-3-Chloropropane	11.4		ug/L	10.00		114	70-130			
1,2-Dibromoethane	10.8		ug/L	10.00		108	70-130			
1,2-Dichlorobenzene	10.4		ug/L	10.00		104	70-130			
1,2-Dichloroethane	10.7		ug/L	10.00		107	70-130			
1,2-Dichloropropane	11.2		ug/L	10.00		112	70-130			
1,3,5-Trimethylbenzene	10.5		ug/L	10.00		105	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CK22716 - 5030B

1,3-Dichlorobenzene	10.2		ug/L	10.00		102	70-130			
1,3-Dichloropropane	11.9		ug/L	10.00		119	70-130			
1,4-Dichlorobenzene	10.7		ug/L	10.00		107	70-130			
1,4-Dioxane - Screen	218		ug/L	200.0		109	0-332			
1-Chlorohexane	9.41		ug/L	10.00		94	70-130			
2,2-Dichloropropane	10.8		ug/L	10.00		108	70-130			
2-Butanone	57.4		ug/L	50.00		115	70-130			
2-Chlorotoluene	11.4		ug/L	10.00		114	70-130			
2-Hexanone	57.2		ug/L	50.00		114	70-130			
4-Chlorotoluene	10.7		ug/L	10.00		107	70-130			
4-Isopropyltoluene	8.75		ug/L	10.00		88	70-130			
4-Methyl-2-Pentanone	53.4		ug/L	50.00		107	70-130			
Acetone	67.3		ug/L	50.00		135	70-130			B+
Benzene	11.1		ug/L	10.00		111	70-130			
Bromobenzene	9.96		ug/L	10.00		100	70-130			
Bromochloromethane	9.56		ug/L	10.00		96	70-130			
Bromodichloromethane	11.0		ug/L	10.00		110	70-130			
Bromoform	11.0		ug/L	10.00		110	70-130			
Bromomethane	12.0		ug/L	10.00		120	70-130			
Carbon Disulfide	11.8		ug/L	10.00		118	70-130			
Carbon Tetrachloride	10.9		ug/L	10.00		109	70-130			
Chlorobenzene	10.7		ug/L	10.00		107	70-130			
Chloroethane	10.8		ug/L	10.00		108	70-130			
Chloroform	10.2		ug/L	10.00		102	70-130			
Chloromethane	10.4		ug/L	10.00		104	70-130			
cis-1,2-Dichloroethene	11.1		ug/L	10.00		111	70-130			
cis-1,3-Dichloropropene	11.4		ug/L	10.00		114	70-130			
Dibromochloromethane	9.83		ug/L	10.00		98	70-130			
Dibromomethane	10.0		ug/L	10.00		100	70-130			
Dichlorodifluoromethane	10.4		ug/L	10.00		104	70-130			
Diethyl Ether	10.1		ug/L	10.00		101	70-130			
Di-isopropyl ether	11.8		ug/L	10.00		118	70-130			
Ethyl tertiary-butyl ether	10.4		ug/L	10.00		104	70-130			
Ethylbenzene	10.7		ug/L	10.00		107	70-130			
Hexachlorobutadiene	11.2		ug/L	10.00		112	70-130			
Hexachloroethane	13.4		ug/L	10.00		134	70-130			B+
Isopropylbenzene	10.2		ug/L	10.00		102	70-130			
Methyl tert-Butyl Ether	10.6		ug/L	10.00		106	70-130			
Methylene Chloride	11.6		ug/L	10.00		116	70-130			
Naphthalene	9.64		ug/L	10.00		96	70-130			
n-Butylbenzene	10.4		ug/L	10.00		104	70-130			
n-Propylbenzene	10.6		ug/L	10.00		106	70-130			
sec-Butylbenzene	10.8		ug/L	10.00		108	70-130			
Styrene	9.95		ug/L	10.00		100	70-130			
tert-Butylbenzene	9.77		ug/L	10.00		98	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CK22716 - 5030B

Tertiary-amyl methyl ether	9.91		ug/L	10.00		99	70-130			
Tetrachloroethene	9.95		ug/L	10.00		100	70-130			
Tetrahydrofuran	10.5		ug/L	10.00		105	70-130			
Toluene	11.2		ug/L	10.00		112	70-130			
trans-1,2-Dichloroethene	11.2		ug/L	10.00		112	70-130			
trans-1,3-Dichloropropene	10.2		ug/L	10.00		102	70-130			
Trichloroethene	9.82		ug/L	10.00		98	70-130			
Trichlorofluoromethane	11.4		ug/L	10.00		114	70-130			
Vinyl Acetate	11.2		ug/L	10.00		112	70-130			
Vinyl Chloride	12.9		ug/L	10.00		129	70-130			
Xylene O	10.4		ug/L	10.00		104	70-130			
Xylene P,M	21.5		ug/L	20.00		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0277		mg/L	0.02500		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.0261		mg/L	0.02500		104	70-130			
Surrogate: Dibromofluoromethane	0.0293		mg/L	0.02500		117	70-130			
Surrogate: Toluene-d8	0.0270		mg/L	0.02500		108	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	9.99		ug/L	10.00		100	70-130	3	25	
1,1,1-Trichloroethane	10.9		ug/L	10.00		109	70-130	4	25	
1,1,2,2-Tetrachloroethane	11.3		ug/L	10.00		113	70-130	0.8	25	
1,1,2-Trichloroethane	10.4		ug/L	10.00		104	70-130	1	25	
1,1-Dichloroethane	11.2		ug/L	10.00		112	70-130	1	25	
1,1-Dichloroethene	10.9		ug/L	10.00		109	70-130	1	25	
1,1-Dichloropropene	11.8		ug/L	10.00		118	70-130	4	25	
1,2,3-Trichlorobenzene	9.65		ug/L	10.00		96	70-130	6	25	
1,2,3-Trichloropropane	10.8		ug/L	10.00		108	70-130	2	25	
1,2,4-Trichlorobenzene	9.86		ug/L	10.00		99	70-130	0.5	25	
1,2,4-Trimethylbenzene	10.2		ug/L	10.00		102	70-130	0.5	25	
1,2-Dibromo-3-Chloropropane	10.9		ug/L	10.00		109	70-130	4	25	
1,2-Dibromoethane	10.7		ug/L	10.00		107	70-130	0.7	25	
1,2-Dichlorobenzene	10.8		ug/L	10.00		108	70-130	3	25	
1,2-Dichloroethane	10.7		ug/L	10.00		107	70-130	0.3	25	
1,2-Dichloropropane	11.3		ug/L	10.00		113	70-130	0.9	25	
1,3,5-Trimethylbenzene	10.4		ug/L	10.00		104	70-130	0.2	25	
1,3-Dichlorobenzene	10.6		ug/L	10.00		106	70-130	4	25	
1,3-Dichloropropane	11.9		ug/L	10.00		119	70-130	0.08	25	
1,4-Dichlorobenzene	10.1		ug/L	10.00		101	70-130	6	25	
1,4-Dioxane - Screen	189		ug/L	200.0		95	0-332	14	200	
1-Chlorohexane	10.5		ug/L	10.00		105	70-130	11	25	
2,2-Dichloropropane	10.9		ug/L	10.00		109	70-130	1	25	
2-Butanone	56.5		ug/L	50.00		113	70-130	2	25	
2-Chlorotoluene	11.2		ug/L	10.00		112	70-130	1	25	
2-Hexanone	56.1		ug/L	50.00		112	70-130	2	25	
4-Chlorotoluene	10.8		ug/L	10.00		108	70-130	1	25	
4-Isopropyltoluene	9.08		ug/L	10.00		91	70-130	4	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CK22716 - 5030B

4-Methyl-2-Pentanone	54.0		ug/L	50.00		108	70-130	1	25	
Acetone	59.7		ug/L	50.00		119	70-130	12	25	
Benzene	11.4		ug/L	10.00		114	70-130	2	25	
Bromobenzene	10.2		ug/L	10.00		102	70-130	2	25	
Bromochloromethane	9.91		ug/L	10.00		99	70-130	4	25	
Bromodichloromethane	11.4		ug/L	10.00		114	70-130	3	25	
Bromoform	10.7		ug/L	10.00		107	70-130	3	25	
Bromomethane	12.5		ug/L	10.00		125	70-130	4	25	
Carbon Disulfide	12.5		ug/L	10.00		125	70-130	6	25	
Carbon Tetrachloride	11.2		ug/L	10.00		112	70-130	3	25	
Chlorobenzene	10.9		ug/L	10.00		109	70-130	2	25	
Chloroethane	10.4		ug/L	10.00		104	70-130	4	25	
Chloroform	10.4		ug/L	10.00		104	70-130	2	25	
Chloromethane	11.4		ug/L	10.00		114	70-130	9	25	
cis-1,2-Dichloroethene	11.3		ug/L	10.00		113	70-130	2	25	
cis-1,3-Dichloropropene	11.8		ug/L	10.00		118	70-130	4	25	
Dibromochloromethane	9.78		ug/L	10.00		98	70-130	0.5	25	
Dibromomethane	11.7		ug/L	10.00		117	70-130	15	25	
Dichlorodifluoromethane	11.0		ug/L	10.00		110	70-130	6	25	
Diethyl Ether	10.4		ug/L	10.00		104	70-130	3	25	
Di-isopropyl ether	12.2		ug/L	10.00		122	70-130	3	25	
Ethyl tertiary-butyl ether	11.0		ug/L	10.00		110	70-130	6	25	
Ethylbenzene	10.7		ug/L	10.00		107	70-130	0.4	25	
Hexachlorobutadiene	10.9		ug/L	10.00		109	70-130	3	25	
Hexachloroethane	14.7		ug/L	10.00		147	70-130	9	25	B+
Isopropylbenzene	10.2		ug/L	10.00		102	70-130	0	25	
Methyl tert-Butyl Ether	10.9		ug/L	10.00		109	70-130	2	25	
Methylene Chloride	11.6		ug/L	10.00		116	70-130	0.09	25	
Naphthalene	9.28		ug/L	10.00		93	70-130	4	25	
n-Butylbenzene	10.3		ug/L	10.00		103	70-130	0.4	25	
n-Propylbenzene	11.0		ug/L	10.00		110	70-130	4	25	
sec-Butylbenzene	10.4		ug/L	10.00		104	70-130	3	25	
Styrene	9.85		ug/L	10.00		98	70-130	1	25	
tert-Butylbenzene	9.94		ug/L	10.00		99	70-130	2	25	
Tertiary-amyl methyl ether	10.4		ug/L	10.00		104	70-130	5	25	
Tetrachloroethene	10.1		ug/L	10.00		101	70-130	1	25	
Tetrahydrofuran	11.5		ug/L	10.00		115	70-130	9	25	
Toluene	11.3		ug/L	10.00		113	70-130	0.5	25	
trans-1,2-Dichloroethene	11.3		ug/L	10.00		113	70-130	0.9	25	
trans-1,3-Dichloropropene	10.3		ug/L	10.00		103	70-130	0.6	25	
Trichloroethene	10.1		ug/L	10.00		101	70-130	3	25	
Trichlorofluoromethane	12.9		ug/L	10.00		129	70-130	13	25	
Vinyl Acetate	11.6		ug/L	10.00		116	70-130	3	25	
Vinyl Chloride	13.7		ug/L	10.00		137	70-130	6	25	B+
Xylene O	10.7		ug/L	10.00		107	70-130	3	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CK22716 - 5030B

Xylene P,M	21.8		ug/L	20.00		109	70-130	1	25	
Surrogate: 1,2-Dichloroethane-d4	0.0298		mg/L	0.02500		119	70-130			
Surrogate: 4-Bromofluorobenzene	0.0269		mg/L	0.02500		108	70-130			
Surrogate: Dibromofluoromethane	0.0307		mg/L	0.02500		123	70-130			
Surrogate: Toluene-d8	0.0272		mg/L	0.02500		109	70-130			

8270C Semi-Volatile Organic Compounds

Batch CK22923 - 3520C

Blank

1,1-Biphenyl	ND	0.010	mg/L							
1,2,4-Trichlorobenzene	ND	0.010	mg/L							
1,2-Dichlorobenzene	ND	0.010	mg/L							
1,3-Dichlorobenzene	ND	0.010	mg/L							
1,4-Dichlorobenzene	ND	0.010	mg/L							
2,3,4,6-Tetrachlorophenol	ND	0.050	mg/L							
2,4,5-Trichlorophenol	ND	0.010	mg/L							
2,4,6-Trichlorophenol	ND	0.010	mg/L							
2,4-Dichlorophenol	ND	0.010	mg/L							
2,4-Dimethylphenol	ND	0.050	mg/L							
2,4-Dinitrophenol	ND	0.050	mg/L							
2,4-Dinitrotoluene	ND	0.010	mg/L							
2,6-Dinitrotoluene	ND	0.010	mg/L							
2-Chloronaphthalene	ND	0.010	mg/L							
2-Chlorophenol	ND	0.010	mg/L							
2-Methylphenol	ND	0.010	mg/L							
2-Nitroaniline	ND	0.010	mg/L							
2-Nitrophenol	ND	0.010	mg/L							
3,3'-Dichlorobenzidine	ND	0.020	mg/L							
3+4-Methylphenol	ND	0.020	mg/L							
3-Nitroaniline	ND	0.010	mg/L							
4,6-Dinitro-2-Methylphenol	ND	0.050	mg/L							
4-Bromophenyl-phenylether	ND	0.010	mg/L							
4-Chloro-3-Methylphenol	ND	0.010	mg/L							
4-Chloroaniline	ND	0.020	mg/L							
4-Chloro-phenyl-phenyl ether	ND	0.010	mg/L							
4-Nitroaniline	ND	0.010	mg/L							
4-Nitrophenol	ND	0.050	mg/L							
Acetophenone	ND	0.010	mg/L							
Aniline	ND	0.010	mg/L							
Azobenzene	ND	0.020	mg/L							
Benzoic Acid	ND	0.100	mg/L							
Benzyl Alcohol	ND	0.010	mg/L							
bis(2-Chloroethoxy)methane	ND	0.010	mg/L							
bis(2-Chloroethyl)ether	ND	0.010	mg/L							
bis(2-chloroisopropyl)Ether	ND	0.010	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
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ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C Semi-Volatile Organic Compounds

Batch CK22923 - 3520C

bis(2-Ethylhexyl)phthalate	ND	0.006	mg/L							
Butylbenzylphthalate	ND	0.010	mg/L							
Carbazole	ND	0.010	mg/L							
Dibenzofuran	ND	0.010	mg/L							
Diethylphthalate	ND	0.010	mg/L							
Dimethylphthalate	ND	0.010	mg/L							
Di-n-butylphthalate	ND	0.010	mg/L							
Di-n-octylphthalate	ND	0.010	mg/L							
Hexachlorobutadiene	ND	0.010	mg/L							
Hexachlorocyclopentadiene	ND	0.025	mg/L							
Hexachloroethane	ND	0.005	mg/L							
Isophorone	ND	0.010	mg/L							
Nitrobenzene	ND	0.010	mg/L							
N-Nitrosodimethylamine	ND	0.010	mg/L							
N-Nitroso-Di-n-Propylamine	ND	0.010	mg/L							
N-nitrosodiphenylamine	ND	0.010	mg/L							
Phenol	ND	0.010	mg/L							
Pyridine	ND	0.100	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	0.0792		mg/L	0.1000		79	30-130			
Surrogate: 2,4,6-Tribromophenol	0.131		mg/L	0.1500		87	15-110			
Surrogate: 2-Chlorophenol-d4	0.119		mg/L	0.1500		79	15-110			
Surrogate: 2-Fluorobiphenyl	0.0869		mg/L	0.1000		87	30-130			
Surrogate: 2-Fluorophenol	0.101		mg/L	0.1500		67	15-110			
Surrogate: Nitrobenzene-d5	0.0907		mg/L	0.1000		91	30-130			
Surrogate: Phenol-d6	0.129		mg/L	0.1500		86	15-110			
Surrogate: p-Terphenyl-d14	0.100		mg/L	0.1000		100	30-130			

LCS

1,1-Biphenyl	0.093	0.010	mg/L	0.1000		93	40-140			
1,2,4-Trichlorobenzene	0.085	0.010	mg/L	0.1000		85	40-140			
1,2-Dichlorobenzene	0.085	0.010	mg/L	0.1000		85	40-140			
1,3-Dichlorobenzene	0.081	0.010	mg/L	0.1000		81	40-140			
1,4-Dichlorobenzene	0.083	0.010	mg/L	0.1000		83	40-140			
2,3,4,6-Tetrachlorophenol	0.095	0.050	mg/L	0.1000		95	40-140			
2,4,5-Trichlorophenol	0.100	0.010	mg/L	0.1000		100	30-130			
2,4,6-Trichlorophenol	0.093	0.010	mg/L	0.1000		93	30-130			
2,4-Dichlorophenol	0.091	0.010	mg/L	0.1000		91	30-130			
2,4-Dimethylphenol	0.098	0.050	mg/L	0.1000		98	30-130			
2,4-Dinitrophenol	0.096	0.050	mg/L	0.1000		96	30-130			
2,4-Dinitrotoluene	0.107	0.010	mg/L	0.1000		107	40-140			
2,6-Dinitrotoluene	0.104	0.010	mg/L	0.1000		104	40-140			
2-Chloronaphthalene	0.086	0.010	mg/L	0.1000		86	40-140			
2-Chlorophenol	0.080	0.010	mg/L	0.1000		80	30-130			
2-Methylphenol	0.089	0.010	mg/L	0.1000		89	30-130			
2-Nitroaniline	0.088	0.010	mg/L	0.1000		88	40-140			
2-Nitrophenol	0.092	0.010	mg/L	0.1000		92	30-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C Semi-Volatile Organic Compounds

Batch CK22923 - 3520C

3,3'-Dichlorobenzidine	0.089	0.020	mg/L	0.1000		89	40-140			
3+4-Methylphenol	0.182	0.020	mg/L	0.2000		91	30-130			
3-Nitroaniline	0.092	0.010	mg/L	0.1000		92	40-140			
4,6-Dinitro-2-Methylphenol	0.102	0.050	mg/L	0.1000		102	30-130			
4-Bromophenyl-phenylether	0.090	0.010	mg/L	0.1000		90	40-140			
4-Chloro-3-Methylphenol	0.099	0.010	mg/L	0.1000		99	30-130			
4-Chloroaniline	0.085	0.020	mg/L	0.1000		85	40-140			
4-Chloro-phenyl-phenyl ether	0.096	0.010	mg/L	0.1000		96	40-140			
4-Nitroaniline	0.100	0.010	mg/L	0.1000		100	40-140			
4-Nitrophenol	0.113	0.050	mg/L	0.1000		113	30-130			
Acetophenone	0.093	0.010	mg/L	0.1000		93	40-140			
Aniline	0.076	0.010	mg/L	0.1000		76	40-140			
Azobenzene	0.097	0.020	mg/L	0.1000		97	40-140			
Benzoic Acid	0.046	0.100	mg/L	0.1000		46	40-140			
Benzyl Alcohol	0.096	0.010	mg/L	0.1000		96	40-140			
bis(2-Chloroethoxy)methane	0.097	0.010	mg/L	0.1000		97	40-140			
bis(2-Chloroethyl)ether	0.101	0.010	mg/L	0.1000		101	40-140			
bis(2-chloroisopropyl)Ether	0.086	0.010	mg/L	0.1000		86	40-140			
bis(2-Ethylhexyl)phthalate	0.106	0.006	mg/L	0.1000		106	40-140			
Butylbenzylphthalate	0.103	0.010	mg/L	0.1000		103	40-140			
Carbazole	0.097	0.010	mg/L	0.1000		97	40-140			
Dibenzofuran	0.099	0.010	mg/L	0.1000		99	40-140			
Diethylphthalate	0.102	0.010	mg/L	0.1000		102	40-140			
Dimethylphthalate	0.096	0.010	mg/L	0.1000		96	40-140			
Di-n-butylphthalate	0.103	0.010	mg/L	0.1000		103	40-140			
Di-n-octylphthalate	0.115	0.010	mg/L	0.1000		115	40-140			
Hexachlorobutadiene	0.086	0.010	mg/L	0.1000		86	40-140			
Hexachlorocyclopentadiene	0.072	0.025	mg/L	0.1000		72	40-140			
Hexachloroethane	0.087	0.005	mg/L	0.1000		87	40-140			
Isophorone	0.099	0.010	mg/L	0.1000		99	40-140			
Nitrobenzene	0.097	0.010	mg/L	0.1000		97	40-140			
N-Nitrosodimethylamine	0.094	0.010	mg/L	0.1000		94	40-140			
N-Nitroso-Di-n-Propylamine	0.095	0.010	mg/L	0.1000		95	40-140			
N-nitrosodiphenylamine	0.091	0.010	mg/L	0.1000		91	40-140			
Phenol	0.079	0.010	mg/L	0.1000		79	30-130			
Pyridine	0.068	0.100	mg/L	0.1000		68	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	0.0827		mg/L	0.1000		83	30-130			
Surrogate: 2,4,6-Tribromophenol	0.137		mg/L	0.1500		92	15-110			
Surrogate: 2-Chlorophenol-d4	0.117		mg/L	0.1500		78	15-110			
Surrogate: 2-Fluorobiphenyl	0.0902		mg/L	0.1000		90	30-130			
Surrogate: 2-Fluorophenol	0.0910		mg/L	0.1500		61	15-110			
Surrogate: Nitrobenzene-d5	0.0927		mg/L	0.1000		93	30-130			
Surrogate: Phenol-d6	0.126		mg/L	0.1500		84	15-110			
Surrogate: p-Terphenyl-d14	0.101		mg/L	0.1000		101	30-130			

LCS Dup



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
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ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C Semi-Volatile Organic Compounds

Batch CK22923 - 3520C

1,1-Biphenyl	0.093	0.010	mg/L	0.1000		93	40-140	0.8	20	
1,2,4-Trichlorobenzene	0.084	0.010	mg/L	0.1000		84	40-140	1	20	
1,2-Dichlorobenzene	0.085	0.010	mg/L	0.1000		85	40-140	0.1	20	
1,3-Dichlorobenzene	0.080	0.010	mg/L	0.1000		80	40-140	0.9	20	
1,4-Dichlorobenzene	0.081	0.010	mg/L	0.1000		81	40-140	2	20	
2,3,4,6-Tetrachlorophenol	0.096	0.050	mg/L	0.1000		96	40-140	0.6	20	
2,4,5-Trichlorophenol	0.101	0.010	mg/L	0.1000		101	30-130	1	20	
2,4,6-Trichlorophenol	0.094	0.010	mg/L	0.1000		94	30-130	0.7	20	
2,4-Dichlorophenol	0.094	0.010	mg/L	0.1000		94	30-130	3	20	
2,4-Dimethylphenol	0.099	0.050	mg/L	0.1000		99	30-130	1	20	
2,4-Dinitrophenol	0.091	0.050	mg/L	0.1000		91	30-130	6	20	
2,4-Dinitrotoluene	0.108	0.010	mg/L	0.1000		108	40-140	0.3	20	
2,6-Dinitrotoluene	0.104	0.010	mg/L	0.1000		104	40-140	0.5	20	
2-Chloronaphthalene	0.086	0.010	mg/L	0.1000		86	40-140	0.7	20	
2-Chlorophenol	0.087	0.010	mg/L	0.1000		87	30-130	8	20	
2-Methylphenol	0.093	0.010	mg/L	0.1000		93	30-130	4	20	
2-Nitroaniline	0.088	0.010	mg/L	0.1000		88	40-140	0.5	20	
2-Nitrophenol	0.094	0.010	mg/L	0.1000		94	30-130	3	20	
3,3'-Dichlorobenzidine	0.090	0.020	mg/L	0.1000		90	40-140	1	20	
3+4-Methylphenol	0.189	0.020	mg/L	0.2000		94	30-130	4	20	
3-Nitroaniline	0.093	0.010	mg/L	0.1000		93	40-140	0.7	20	
4,6-Dinitro-2-Methylphenol	0.104	0.050	mg/L	0.1000		104	30-130	2	20	
4-Bromophenyl-phenylether	0.092	0.010	mg/L	0.1000		92	40-140	1	20	
4-Chloro-3-Methylphenol	0.102	0.010	mg/L	0.1000		102	30-130	3	20	
4-Chloroaniline	0.085	0.020	mg/L	0.1000		85	40-140	0.5	20	
4-Chloro-phenyl-phenyl ether	0.094	0.010	mg/L	0.1000		94	40-140	1	20	
4-Nitroaniline	0.101	0.010	mg/L	0.1000		101	40-140	1	20	
4-Nitrophenol	0.113	0.050	mg/L	0.1000		113	30-130	0.06	20	
Acetophenone	0.093	0.010	mg/L	0.1000		93	40-140	0.01	20	
Aniline	0.073	0.010	mg/L	0.1000		73	40-140	4	20	
Azobenzene	0.098	0.020	mg/L	0.1000		98	40-140	0.3	20	
Benzoic Acid	0.041	0.100	mg/L	0.1000		41	40-140	12	20	
Benzyl Alcohol	0.096	0.010	mg/L	0.1000		96	40-140	0.8	20	
bis(2-Chloroethoxy)methane	0.097	0.010	mg/L	0.1000		97	40-140	0.3	20	
bis(2-Chloroethyl)ether	0.101	0.010	mg/L	0.1000		101	40-140	0.5	20	
bis(2-chloroisopropyl)Ether	0.084	0.010	mg/L	0.1000		84	40-140	2	20	
bis(2-Ethylhexyl)phthalate	0.107	0.006	mg/L	0.1000		107	40-140	1	20	
Butylbenzylphthalate	0.104	0.010	mg/L	0.1000		104	40-140	1	20	
Carbazole	0.098	0.010	mg/L	0.1000		98	40-140	0.5	20	
Dibenzofuran	0.098	0.010	mg/L	0.1000		98	40-140	1	20	
Diethylphthalate	0.102	0.010	mg/L	0.1000		102	40-140	0.07	20	
Dimethylphthalate	0.097	0.010	mg/L	0.1000		97	40-140	0.5	20	
Di-n-butylphthalate	0.102	0.010	mg/L	0.1000		102	40-140	0.2	20	
Di-n-octylphthalate	0.115	0.010	mg/L	0.1000		115	40-140	0.4	20	
Hexachlorobutadiene	0.086	0.010	mg/L	0.1000		86	40-140	0.1	20	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C Semi-Volatile Organic Compounds

Batch CK22923 - 3520C

Hexachlorocyclopentadiene	0.070	0.025	mg/L	0.1000		70	40-140	4	20	
Hexachloroethane	0.087	0.005	mg/L	0.1000		87	40-140	0.7	20	
Isophorone	0.099	0.010	mg/L	0.1000		99	40-140	0.4	20	
Nitrobenzene	0.097	0.010	mg/L	0.1000		97	40-140	0.2	20	
N-Nitrosodimethylamine	0.098	0.010	mg/L	0.1000		98	40-140	4	20	
N-Nitroso-Di-n-Propylamine	0.095	0.010	mg/L	0.1000		95	40-140	0.3	20	
N-nitrosodiphenylamine	0.092	0.010	mg/L	0.1000		92	40-140	0.7	20	
Phenol	0.085	0.010	mg/L	0.1000		85	30-130	8	20	
Pyridine	0.065	0.100	mg/L	0.1000		65	40-140	5	20	
Surrogate: 1,2-Dichlorobenzene-d4	0.0811		mg/L	0.1000		81	30-130			
Surrogate: 2,4,6-Tribromophenol	0.139		mg/L	0.1500		92	15-110			
Surrogate: 2-Chlorophenol-d4	0.127		mg/L	0.1500		85	15-110			
Surrogate: 2-Fluorobiphenyl	0.0892		mg/L	0.1000		89	30-130			
Surrogate: 2-Fluorophenol	0.114		mg/L	0.1500		76	15-110			
Surrogate: Nitrobenzene-d5	0.0928		mg/L	0.1000		93	30-130			
Surrogate: Phenol-d6	0.135		mg/L	0.1500		90	15-110			
Surrogate: p-Terphenyl-d14	0.103		mg/L	0.1000		103	30-130			

8270C(SIM) Semi-Volatile Organic Compounds

Batch CK22913 - 3510C

Blank										
2-Methylnaphthalene	ND	0.00020	mg/L							
Acenaphthene	ND	0.00020	mg/L							
Acenaphthylene	ND	0.00020	mg/L							
Anthracene	ND	0.00020	mg/L							
Benzo(a)anthracene	ND	0.00005	mg/L							
Benzo(a)pyrene	ND	0.00005	mg/L							
Benzo(b)fluoranthene	ND	0.00005	mg/L							
Benzo(g,h,i)perylene	ND	0.00020	mg/L							
Benzo(k)fluoranthene	ND	0.00005	mg/L							
Chrysene	ND	0.00005	mg/L							
Dibenzo(a,h)Anthracene	ND	0.00005	mg/L							
Fluoranthene	ND	0.00020	mg/L							
Fluorene	ND	0.00020	mg/L							
Hexachlorobenzene	ND	0.00020	mg/L							
Indeno(1,2,3-cd)Pyrene	ND	0.00005	mg/L							
Naphthalene	ND	0.00020	mg/L							
Pentachlorophenol	ND	0.00100	mg/L							
Phenanthrene	ND	0.00020	mg/L							
Pyrene	ND	0.00020	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	0.000280		mg/L	0.0006250		45	30-130			
Surrogate: 2,4,6-Tribromophenol	0.00130		mg/L	0.0009375		138	15-110			S+
Surrogate: 2-Fluorobiphenyl	0.000442		mg/L	0.0006250		71	30-130			
Surrogate: Nitrobenzene-d5	0.000455		mg/L	0.0006250		73	30-130			
Surrogate: p-Terphenyl-d14	0.000505		mg/L	0.0006250		81	30-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C(SIM) Semi-Volatile Organic Compounds

Batch CK22913 - 3510C

LCS

2-Methylnaphthalene	0.00036	0.00020	mg/L	0.0005000		71	40-140			
Acenaphthene	0.00043	0.00020	mg/L	0.0005000		86	40-140			
Acenaphthylene	0.00036	0.00020	mg/L	0.0005000		72	40-140			
Anthracene	0.00042	0.00020	mg/L	0.0005000		84	40-140			
Benzo(a)anthracene	0.00047	0.00005	mg/L	0.0005000		94	40-140			
Benzo(a)pyrene	0.00044	0.00005	mg/L	0.0005000		89	40-140			
Benzo(b)fluoranthene	0.00048	0.00005	mg/L	0.0005000		97	40-140			
Benzo(g,h,i)perylene	0.00052	0.00020	mg/L	0.0005000		104	40-140			
Benzo(k)fluoranthene	0.00048	0.00005	mg/L	0.0005000		96	40-140			
Chrysene	0.00048	0.00005	mg/L	0.0005000		96	40-140			
Dibenzo(a,h)Anthracene	0.00051	0.00005	mg/L	0.0005000		102	40-140			
Fluoranthene	0.00044	0.00020	mg/L	0.0005000		87	40-140			
Fluorene	0.00045	0.00020	mg/L	0.0005000		90	40-140			
Hexachlorobenzene	0.00046	0.00020	mg/L	0.0005000		92	40-140			
Indeno(1,2,3-cd)Pyrene	0.00053	0.00005	mg/L	0.0005000		106	40-140			
Naphthalene	0.00039	0.00020	mg/L	0.0005000		78	40-140			
Pentachlorophenol	0.00194	0.00100	mg/L	0.002500		78	30-130			
Phenanthrene	0.00046	0.00020	mg/L	0.0005000		91	40-140			
Pyrene	0.00048	0.00020	mg/L	0.0005000		95	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	0.000302		mg/L	0.0006250		48	30-130			
Surrogate: 2,4,6-Tribromophenol	0.00150		mg/L	0.0009375		160	15-110			S+
Surrogate: 2-Fluorobiphenyl	0.000502		mg/L	0.0006250		80	30-130			
Surrogate: Nitrobenzene-d5	0.000522		mg/L	0.0006250		84	30-130			
Surrogate: p-Terphenyl-d14	0.000608		mg/L	0.0006250		97	30-130			

LCS Dup

2-Methylnaphthalene	0.00043	0.00020	mg/L	0.0005000		86	40-140	18	20	
Acenaphthene	0.00050	0.00020	mg/L	0.0005000		100	40-140	14	20	
Acenaphthylene	0.00041	0.00020	mg/L	0.0005000		82	40-140	13	20	
Anthracene	0.00047	0.00020	mg/L	0.0005000		94	40-140	12	20	
Benzo(a)anthracene	0.00051	0.00005	mg/L	0.0005000		102	40-140	8	20	
Benzo(a)pyrene	0.00049	0.00005	mg/L	0.0005000		97	40-140	9	20	
Benzo(b)fluoranthene	0.00054	0.00005	mg/L	0.0005000		107	40-140	10	20	
Benzo(g,h,i)perylene	0.00057	0.00020	mg/L	0.0005000		114	40-140	8	20	
Benzo(k)fluoranthene	0.00051	0.00005	mg/L	0.0005000		102	40-140	6	20	
Chrysene	0.00055	0.00005	mg/L	0.0005000		110	40-140	14	20	
Dibenzo(a,h)Anthracene	0.00057	0.00005	mg/L	0.0005000		114	40-140	12	20	
Fluoranthene	0.00047	0.00020	mg/L	0.0005000		94	40-140	8	20	
Fluorene	0.00050	0.00020	mg/L	0.0005000		100	40-140	11	20	
Hexachlorobenzene	0.00053	0.00020	mg/L	0.0005000		106	40-140	14	20	
Indeno(1,2,3-cd)Pyrene	0.00058	0.00005	mg/L	0.0005000		117	40-140	10	20	
Naphthalene	0.00046	0.00020	mg/L	0.0005000		92	40-140	16	20	
Pentachlorophenol	0.00195	0.00100	mg/L	0.002500		78	30-130	0.4	20	
Phenanthrene	0.00052	0.00020	mg/L	0.0005000		104	40-140	13	20	
Pyrene	0.00051	0.00020	mg/L	0.0005000		102	40-140	8	20	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C(SIM) Semi-Volatile Organic Compounds

Batch CK22913 - 3510C

<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0.000362</i>		mg/L	<i>0.0006250</i>		<i>58</i>	<i>30-130</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0.00148</i>		mg/L	<i>0.0009375</i>		<i>158</i>	<i>15-110</i>			<i>S+</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.000558</i>		mg/L	<i>0.0006250</i>		<i>89</i>	<i>30-130</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.000650</i>		mg/L	<i>0.0006250</i>		<i>104</i>	<i>30-130</i>			
<i>Surrogate: p-Terphenyl-d14</i>	<i>0.000650</i>		mg/L	<i>0.0006250</i>		<i>104</i>	<i>30-130</i>			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

Notes and Definitions

- U Analyte included in the analysis, but not detected
- S+ Surrogate recovery(ies) above upper control limit (S+).
- Q Calibration required quadratic regression (Q).
- D Diluted.
- C+ Continuing Calibration recovery is above upper control limit (C+).
- B+ Blank Spike recovery is above upper control limit (B+).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1211448

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water: RI0002

http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

Sample and Cooler Receipt Checklist

Client: Resource Controls
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 12110448
Date Project Due: 12/4/12
Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? *No
- Air No.:
- 2. Were Custody Seals Present? No
- 3. Were Custody Seals Intact? N/A
- 4. Is Radiation count < 100 CPM? Yes
- 5. Is a cooler present? Yes
- Cooler Temp: 2.7
- Iced With: Icepacks
- 6. Was COC included with samples? Yes
- 7. Was COC signed and dated by client? Yes
- 8. Does the COC match the sample Yes
- 9. Is COC complete and correct? Yes

- 10. Are the samples properly preserved? Yes
- 11. Proper sample containers used? Yes
- 12. Any air bubbles in the VOA vials? No
- 13. Holding times exceeded? No
- 14. Sufficient sample volumes? Yes
- 15. Any Subcontracting needed? No
- 16. Are ESS labels on correct containers? Yes No
- 17. Were samples received intact? Yes No
- ESS Sample IDs: _____
- Sub Lab: _____
- Analysis: _____
- TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	40 ml - VOA	3	HCL
2	Yes	40 ml - VOA	3	HCL
3	Yes	1 L Glass	2	NP
3	Yes	250 ml Plastic	1	HNO3
3	Yes	40 ml - VOA	3	HCL
4	Yes	1 L Glass	2	NP
4	Yes	250 ml Plastic	1	HNO3
4	Yes	40 ml - VOA	3	HCL
5	Yes	1 L Glass	2	NP
5	Yes	250 ml Plastic	1	HNO3
5	Yes	40 ml - VOA	3	HCL
6	Yes	40 ml - VOA	1	HCL

Completed By: [Signature]
Reviewed By: [Signature]

Date/Time: 11/27/12
Date/Time: 11/27/12

APPENDIX G

Qualifications

MARK J. HOUSE

VICE PRESIDENT AND PRINCIPAL SCIENTIST

EDUCATION

MBA Management, University of Rhode Island, 1998

B.S. Water Resources, State University of New York at Oneonta, 1989

REGISTRATION/ CERTIFICATION

- OSHA 29 CFR 1910 40-Hour Safety Training
- 8-Hour OSHA annual refresher training in health and safety
- AHERA Asbestos Inspector, Title II TSCA 15 U.S.C. 2646
- DOE Radiation Worker, Nuclear Regulatory Commission
- Several Industry Specific Short Courses

CAREER HIGHLIGHTS

- Over 20 years of professional environmental experience
- Responsible for a staff of over 20 engineers and scientists
- Managed several federally funded Brownfield assessment and redevelopment projects
- Direct project experience with nuclear and radiological wastes
- Task Manager and Field Team Leader on several high-profile Superfund cleanup projects
- Extensive field drilling experience with all types of rigs and methods
- Member of local Economic Development Committee and Conservation Commission
- Pawtucket Foundation Executive Board Member

SUMMARY OF QUALIFICATIONS

Mr. House has over 20 years of technical and managerial experience in environmental site assessment and remediation throughout New England and the East Coast. His experience includes overseeing environmental cleanup and site closure activities in accordance with RCRA, CERCLA, and various state regulations. Mr. House has also assisted clients with managing risks associated with Brownfield redevelopment including the identification, evaluation and procurement of funding vehicles, completing comprehensive assessment and remediation efforts, and structuring beneficial insurance products and institutional controls.

As Operations Manager, Mr. House is responsible for maximizing corporate efficiency and profitability while maintaining client satisfaction through consistent, responsive, cost effective, high quality work. Mr. House also functions as a Principal Scientist on key projects with the responsibility of identifying solutions to meet client needs and regulatory compliance, proposing and negotiating budgets, implementing response actions in a timely manner, as well as allocating and aligning resources.

SELECTED PROFESSIONAL EXPERIENCE

Brownfield Revitalization Project South Kingstown, RI

Managed environmental assessment and remediation activities associated with redevelopment of a historic gasoline station and petroleum distribution facility in Historic South Kingstown, RI. The downtown inter-modal enhancement development project consisted of the creation of a parking area, a riverfront greenway, and a comfort station to compliment an abutting bike path. The project was funded through a RIDOT public enhancement grant. The project work included implementation of several subsurface investigations, stakeholder coordination, creative remedial design, asbestos abatement, demolition, remediation activities, wetland and civil site restoration, as well as implementation of an environmental land use restriction (ELUR), and structuring of a Brownfield Settlement Agreement and Covenant Not to Sue.

MARK J. HOUSE
VICE PRESIDENT AND PRINCIPAL SCIENTIST

RIDEM Landfill Assessment & Closure
East Providence, RI

Managed the investigation, landfill closure design, and wetlands permitting activities associated with the resolution of the Greenwood Disposal Area, a former gypsum waste disposal landfill located in East Providence, RI. Activities were conducted in accordance with the RIDEM Landfill Closure Program, which integrates requirements of both the RIDEM Remediation and Solid Waste Regulations. The project also included significant coordination the RIDEM Office of Compliance and Wetland Program regarding impact to a down gradient stream, activities included wetland delineation and permitting, as well as erosion control and wetland restoration design.

RIDEM Site Investigation and Remedial Design, Former Chemical Company
Lincoln, RI

Managed comprehensive environmental assessment and remediation efforts associated with the restoration of a historic chemical manufacturing facility. Numerous stages of subsurface investigation identified extensive No. 6 fuel oil and chlorinated solvent contamination on the property and in an abutting mill river. Following remedial design, source removal activities were conducted in coordination with several parties including regulatory agencies, tenants, responsible parties and potential purchasers. Coordinated significant permitting and monitoring activities in accordance with the RIDEM Freshwater Wetlands Program. Also assisted legal council in the implementation of an Environmental Land Use Restriction (ELUR), as well as the structuring of a Brownfield Settlement Agreement and Covenant Not to Sue.

Brownfield Assessment
Mansfield, MA

Managed the assessment of a former creosote manufacturing plant situated on 45 acres in Mansfield, MA. Activities were conducted in accordance with the MCP and in coordination with improvements to the abutting commuter rail station. This complex Brownfield redevelopment project included the preparation of an EPA Quality Assurance Project Plan (QAPP), multi-media assessment, risk characterization, remediation of soil and groundwater contamination, as well as resolution of environmental impacts to adjoining wetlands and the Rumford River. Project funding was provided to the Town of Mansfield by the EPA as a result of the pro bono writing of an EPA grant by Resource Controls.

CERCLIS Site Investigation
Tiverton, RI

Managed the investigation of an alleged manufactured gas plant (MGP) fly ash disposal site in a residential / wetland setting in Tiverton, RI. The project included a multi-media sampling effort and a comprehensive forensic analytical evaluation. Management of this CERCLIS Site is conducted under a Superfund Memorandum of Agreement (SMOA) between EPA and RIDEM.

JULIE V. FRESHMAN

SENIOR ENVIRONMENTAL SCIENTIST / GIS MANAGER

EDUCATION

- M.A.** Energy and Environmental Analysis, Boston University, 2002
- B.S.** Environmental Science, University of Delaware, 1999

SPECIAL TRAINING

- OSHA 29 CFR 1910 40-Hour Safety and GIS Training

CAREER HIGHLIGHTS

- Over 10 years of professional environmental experience
- Substantial experience with creation of graphics using ArcGIS and AutoCAD software.
- Strong data management skills for environmental site assessments activities.
- Has conducted environmental site assessments of various commercial and industrial properties, including advancement of soil borings, installation of groundwater monitoring wells, soil and groundwater sampling, surveying and reporting.
- Strong working knowledge of ASTM site assessment requirements.
- Website Development & Maintenance

MEMBERSHIPS

- New England Geographic Information and Technology Association (NEGITA) - Current Board Member
- URISA - The Association for GIS Professionals

SUMMARY OF QUALIFICATIONS

Ms. Freshman's experience includes all aspects of environmental assessment and GIS mapping, as well as data management and presentation. She has conducted numerous GIS mapping projects for wide range of information, Phase I and II site assessments, and assisted with subsurface investigations, file reviews and data management. Ms. Freshman has also written a wide variety of project reports, and created diverse graphics for reports using ArcGIS and AutoCAD software.

SELECTED PROFESSIONAL EXPERIENCE

Phase I Environmental Site Assessments and Transaction Screen Assessments, Multiple Locations

Conducted numerous ASTM Phase 1 Environmental Site Assessments and Transaction Screen Assessments of various commercial and industrial properties throughout Rhode Island and Massachusetts. Responsibilities included site inspection, state and local file reviews, property owner contacts and interviews, environmental database analysis, and report preparation.

Wetland Permitting-National Telecommunications Utility Co., Multiple Municipalities

Assisted with obtaining the required wetlands permits for the completion of underground utility upgrade work in a number of towns in eastern Massachusetts. Responsibilities included developing GIS plans depicting the work areas, mapped resource areas, and buffer zones to jurisdictional resources; conducting field inspections; preparing permit application; and attending conservation commission hearings.

Data Management and Presentation Multiple Locations

Managed data and created tables and graphics for presentation purposes for multiple sites throughout Rhode Island and Massachusetts. Ms. Freshman was responsible for obtaining data electronically from the lab and transferring said data directly to Resource Controls' in-house data management and graphic presentation system. Data was evaluated, consolidated in summary tables for presentation and plotted on distribution maps and diagrams. Software used includes Earthsoft's EQuIS Environmental Data Management Software, ESRI's ArcGIS, Golden Software's Surfer, Autodesk's AutoCAD.

JULIE V. FRESHMAN
SENIOR ENVIRONMENTAL SCIENTIST / GIS MANAGER

**Environmental Permitting for Proposed Telecommunications Facility
Cranston, RI**

Conducted a National Environmental Policy Act (NEPA) Evaluation at the Site. The purpose of the assessment was to evaluate the Site for potential environmental and/or historical concerns. Responsibilities included researching relevant Federal and State records, reviewing required historical records, coordinating an archaeological survey and preparing a final report.

**Former Chemical Company
Lincoln, RI**

During remediation of release issues, significant post remediation confirmatory soil and groundwater samples were analyzed. Ms. Freshman was responsible for obtaining this data electronically from the lab and transferring said data directly to Resource Controls' in-house data management and graphic presentation system. Data was then evaluated, consolidated in summary tables for presentation and plotted on distribution maps and diagrams.

**Active Manufacturing Facility
Pawtucket, RI**

Conducted ASTM Phase I Environmental Site Assessment of historic mill property located adjacent to the Blackstone River, and assisted with a subsurface investigation aimed at determining the extent of soil and/or groundwater contamination. Investigation included state and local file reviews, property contacts and interviews, environmental database analysis, advancement of soil borings, installation of groundwater monitoring wells, collection of soil and groundwater samples for laboratory analysis, surveying to determine relative water table elevations, and report preparation.

**Brownfields Redevelopment Project
Taunton, MA**

Obtained the required wetlands permits for the demolition of site buildings, environmental site assessment activities and remedial activities at a Brownfields site in Taunton, Massachusetts. Responsibilities included communications with conservation commission agent, completing required state and local permit application forms, developing plans depicting the work areas and resource areas, and attending conservation commission hearings.

**Disposal Site Assessment and Remediation Project
Raynham, MA**

Obtained the required wetlands permits for the demolition of site buildings, environmental site assessment activities and remedial activities at a hazardous waste drum disposal site in Raynham, Massachusetts. Responsibilities included communications with conservation commission agent, completing required state and local permit application forms, developing plans depicting the work areas and resource areas, and attending conservation commission hearings.

DANIEL S. BOYNES

ENVIRONMENTAL SCIENTIST

Education

B.S. Geosciences
University of Rhode
Island,
Kingston, RI, 2011

Special Training

40-Hour OSHA

Career Highlights

- ASTM Phase I and Transaction Screen Assessment experience at residential and commercial properties in Rhode Island.
- Professional experience with subsurface investigations, including soil borings, groundwater monitoring wells, soil, groundwater, sediment and surface water sampling, and report preparation.
- Working knowledge of ASTM site assessment requirements.
- Understanding of the Massachusetts Contingency Plan (MCP) and Rhode Island Remediation Regulations reporting requirements, particularly as applied to potential oil or hazardous materials releases identified during ASTM investigations.

SUMMARY OF QUALIFICATIONS

Mr. Boynes' experience includes all aspects of environmental assessment, numerous Transaction Screen Assessments and Phase I site assessments, and subsurface investigations, including soil, air, sediment, soil gas, surface water and groundwater sample collection, file reviews and data management.

SELECTED PROFESSIONAL EXPERIENCE

Transaction Screen Assessments, Multiple Locations

Conducted numerous ASTM Transaction Screen Site Assessments of various commercial and industrial properties throughout Rhode Island and Massachusetts. Responsibilities included site inspection, property owner contacts and interviews, environmental database analysis, and report preparation.

Polychlorinated Biphenyls Building Inspections, Public Buildings Boston, MA

Mr. Boynes performed building inspections of buildings constructed during the time period in which PCBs were heavily used. He documented and photographed any potential PCB-containing building material. Responsibilities included site inspection, file reviews, database analysis, and preparation of the report and associated graphics.

Former Chemical Company, Lincoln, RI

Mr. Boynes was responsible for obtaining this data electronically from the lab and transferring said data directly to Resource Controls' in-house data management and graphic presentation system. Data was then evaluated and consolidated in summary tables for presentation.

PCB Removal Operations, Department of Conservation and Recreation, Fitchburg, MA

Mr. Boynes performed contractor oversight of removal of PCBs-containing caulking, as well as compliance with EPA approved plans and regulations. He conducts air quality monitoring in the work area and documents removal activities in field notes and photographs.

Site Characterization and Remediation, Former Metals Company, Taunton, MA

Mr. Boynes performed environmental assessments, site characterizations, report preparation, soil and water quality data collection and analysis, figure preparation, and oversight of subsurface investigations, drilling activities and monitoring well installations.

APPENDIX H

Additional Limitations

ADDITIONAL LIMITATIONS

1. The observations described in this Report were made under the conditions stated herein. The conclusions presented in the Report are based solely upon the services described therein and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in the Report was carried out in accordance with our Proposal and Associated Statement of Standard Terms and Conditions.
2. In preparing the Report, Resource Controls has relied on certain information provided by state and local officials and other parties referenced therein and on information contained in the files of state and/or local agencies available to Resource Controls at the time of the site evaluation. Although there may have been some degree of overlap in the information provided by the various sources, Resource Controls did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.
3. Observations and explorations were made of the site as indicated within the Report. Where access to portions of the site were unavailable or limited, Resource Controls renders no opinion as to the presence of hazardous materials, asbestos, lead paint or oil, or to the presence of indirect evidence relating to the same, in that portion of the site or structure. In addition, Resource Controls renders no opinion as to the presence of hazardous materials, lead paint, oil or asbestos or to the presence of indirect evidence relating to hazardous materials, oil, lead paint or asbestos, where direct observation of the interior walls, floor, or ceiling of a structure on a site was obstructed by objects or coverings on or over these structures.
4. The purpose of this Report was to assess the physical and chemical characteristics of the subject site with respect to the presence in the environment of hazardous materials, lead paint, asbestos or oil. No specific attempt was made to check the regulatory compliance of present or past owners or operators of the site with federal, state or local laws and regulations, environmental or otherwise.
5. Except as noted within the text of this Report, no quantitative laboratory testing was performed as part of this evaluation. Where such analyses have been conducted by an outside laboratory, Resource Controls has relied upon the data provided and has not conducted an independent third party evaluation of the reliability of this data.
6. Chemical analyses performed for specific parameters during the course of studies have been used, in part, as a basis for determining the areas of environmental concern. Additional chemical constituents not searched for may be present at the site. Defined areas of environmental concern do not cover the potential additional constituents.
7. Governmental agencies' interpretations, requirements and enforcement policies may impact the type and scope of any site remediation required for a site. In addition, statutes, rules and regulations may be legislatively changed and inter-agency and intra-agency policies may be changed from present practice. If such changes occur, it may be necessary to re-evaluate their impact on the scope of any site remediation required.
8. Any water level readings made in the test pits, borings and/or wells and were made under the conditions stated on the logs. This data may have been reviewed and interpretations have been made in the text of this Report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall, temperature and other factors different from those prevailing at the time measurements were made.
9. Any and all cost estimates or opinions presented are based on Resource Controls opinion of most probable costs and are based on information available at the time of the estimate. Such estimates may vary from actual contract values based on many market and engineering variables beyond the control of Resource Controls. No warranty or guarantee is offered on the accuracy or validity of the estimates provided.

APPENDIX D

Copy of Letter of Responsibility



LETTER OF RESPONSIBILITY
CASE No. 2013-024

May 24, 2013

CERTIFIED MAIL

Bay Spring Realty Company
c/o Andrew Schuster
909 North Main Street
Providence, RI 02904

RE: Bay Spring Realty Company
90 Bay Spring Avenue
Barrington, Rhode Island
Plat Map 2 / Lot 154

Dear Mr. Schuster:

On November 9, 2011, the Rhode Island Department of Environmental Management (the Department) enacted the amended Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (the Remediation Regulations). The purpose of these regulations is to create an integrated program requiring reporting, investigation and remediation of contaminated sites in order to eliminate and/or control threats to human health and the environment in an efficient manner. A Letter of Responsibility (LOR) is a preliminary document used by the Department to codify and define the relationship between the Department and a Performing Party.

Please be advised of the following facts:

1. The above referenced property is located at 90 Bay Spring Avenue in Barrington, Rhode Island (the Site). The Site is further identified by the Town of Barrington Tax Assessor's Office as Plat Map 2 / Lot 154.
2. The Department is in receipt of the following document[s]:
 - a. Hazardous Material Release Notification Form, received by the Department on May 17, 2013, prepared by Resource Control Associates, Inc.
3. The above referenced document identifies concentrations of arsenic and polycyclic aromatic hydrocarbons in Site soils that exceed the Department's Method 1 Direct Exposure Criteria, as referenced in the Remediation Regulations. The above referenced document also identifies concentrations of arsenic and lead in the Site groundwater that exceeds the Department's GA Groundwater Objectives.

4. Based on the presence and nature of these Hazardous Substances the Department concurs that a Release of Hazardous Materials has occurred as defined by Rules 3.33, 3.34, and 3.63 of the Remediation Regulations.
5. Bay Spring Realty Company is identified as the current owner of the Site by the Town of Barrington's Tax Assessor's office and as such is a Responsible Party as defined by Rule 3.70 of the Remediation Regulations.

As a result of the information known and the conditions observed at the site, the Department requests that Bay Spring Realty Company comply with the following:

1. If necessary, prior to the implementation of any additional site investigation field activities and in accordance with Rule 7.07(A)(i) of the Remediation Regulations, Bay Spring Realty Company must notify all abutting property owners, tenants, easement holders, and the municipality that an investigation is about to occur. The notice should briefly indicate the purpose of the investigation, the work to be performed, and the approximate scheduled dates of activities. Please submit a draft notification to the Department via E-mail for review and approval prior to distribution. A boilerplate notification to be distributed can be found online at: <http://www.dem.ri.gov/programs/benviron/waste/topicrem.htm#process>.

The Department will require a copy of the public notice letter and a list of all recipients. Failure to comply with the aforementioned items may result in enforcement actions as specified in Rhode Island General Laws 23-19.1-17 and 23-19.1-18.

2. Conduct further investigation of the Site soil and groundwater, if warranted, in accordance with Section 7.00 of the Remediation Regulations.
3. Upon completion of the additional site investigation submit a Site Investigation Report (SIR) in accordance with Section 7.00 of the Remediation Regulations within ninety (90) days from that date of this letter. Given that some limited environmental investigation has already been performed at the Site, you may incorporate portions of the information already gathered and work already performed to address the items covered in Section 7.00. The SIR should include at least two remedial alternatives other than no action/natural attenuation and include future plans for the re-use or redevelopment (if applicable) of the property.
4. Submit an SIR checklist in accordance with Rule 7.08 of the Remediation Regulations. The SIR checklist was created as a supplemental tool to expedite the review and approval process by cross-referencing the specific sections and pages within the SIR that provide the detailed information that addresses each stated requirement within Section 7.00 of the Remediation Regulations.
5. Upon approval by the Department of the SIR, be prepared to bring the Site into compliance with the Remediation Regulations.

Please be advised that Bay Spring Realty Company, as the Responsible Party, is responsible for the

proper investigation and remediation of hazardous substances at this site. Also be advised that any remedial alternative that proposes to leave contaminated media on-site at levels which exceed the Department's Residential Direct Exposure Criteria, applicable Leachability Criteria, or applicable Groundwater Criteria will, at a minimum, necessitate the recording of an institutional control in the form of an Environmental Land Usage Restriction (ELUR) on the deed for the site, and will likely require implementation of additional engineered controls to restrict human exposure.

Please notify this office within seven days of the receipt of this letter of your plans to address these items. All correspondences should be sent to the attention of:

Timothy M. Fleury
RIDEM / Office of Waste Management
235 Promenade Street
Providence, RI 02908

If you have any questions regarding this letter or would like the opportunity to meet with Department personnel, please contact me by telephone at (401) 222-2797, ext. 7147, or by E-mail at tim.fleury@dem.ri.gov.

Sincerely,



Timothy M. Fleury
Senior Engineer
Office of Waste Management

cc: Kelly Owens, Office of Waste Management
Jeffrey Crawford, Office of Waste Management
Julie Freshman, Resource Control Associates, Inc.

APPENDIX E

Laboratory Reports



CERTIFICATE OF ANALYSIS

Daniel Boynes
Resource Controls
474 Broadway
Pawtucket, RI 02860-1377

RE: Barrington (7131)
ESS Laboratory Work Order Number: 1302205

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 5:05 pm, Feb 21, 2013

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302205

SAMPLE RECEIPT

The following samples were received on February 13, 2013 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1302205-01	MW-3	Ground Water	6010B, 7060A, 7470A
1302205-02	MW-4	Ground Water	6010B, 7060A, 7470A



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302205

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302205

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 02/13/13 10:26
Percent Solids: N/A

ESS Laboratory Work Order: 1302205
ESS Laboratory Sample ID: 1302205-01
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0025)	7060A		1	AA	02/16/13 21:10	50	25	CB31601
Barium	0.093 (0.025)	6010B		1	SVD	02/16/13 22:54	50	25	CB31601
Cadmium	ND (0.0025)	6010B		1	SVD	02/16/13 22:54	50	25	CB31601
Chromium	ND (0.010)	6010B		1	SVD	02/16/13 22:54	50	25	CB31601
Lead	ND (0.010)	6010B		1	SVD	02/16/13 22:54	50	25	CB31601
Mercury	ND (0.00020)	7470A		1	NAR	02/19/13 13:02	20	40	CB31602
Selenium	ND (0.025)	6010B		1	SVD	02/16/13 22:54	50	25	CB31601
Silver	ND (0.005)	6010B		1	SVD	02/16/13 22:54	50	25	CB31601



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 02/13/13 10:26
Percent Solids: N/A

ESS Laboratory Work Order: 1302205
ESS Laboratory Sample ID: 1302205-01
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0027 (0.0025)	7060A		1	AA	02/16/13 20:12	50	25	CB31326
Barium	0.121 (0.025)	6010B		1	SVD	02/14/13 22:54	50	25	CB31326
Cadmium	ND (0.0025)	6010B		1	SVD	02/14/13 22:54	50	25	CB31326
Chromium	ND (0.010)	6010B		1	SVD	02/14/13 22:54	50	25	CB31326
Lead	0.030 (0.010)	6010B		1	SVD	02/14/13 22:54	50	25	CB31326
Mercury	0.00055 (0.00020)	7470A		1	NAR	02/19/13 9:53	20	40	CB31602
Selenium	ND (0.025)	6010B		1	SVD	02/14/13 22:54	50	25	CB31326
Silver	ND (0.005)	6010B		1	SVD	02/14/13 22:54	50	25	CB31326



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-4
Date Sampled: 02/13/13 11:53
Percent Solids: N/A

ESS Laboratory Work Order: 1302205
ESS Laboratory Sample ID: 1302205-02
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0123 (0.0025)	7060A		1	AA	02/16/13 21:16	50	25	CB31601
Barium	0.046 (0.025)	6010B		1	SVD	02/16/13 22:58	50	25	CB31601
Cadmium	ND (0.0025)	6010B		1	SVD	02/16/13 22:58	50	25	CB31601
Chromium	ND (0.010)	6010B		1	SVD	02/16/13 22:58	50	25	CB31601
Lead	ND (0.010)	6010B		1	SVD	02/16/13 22:58	50	25	CB31601
Mercury	ND (0.00020)	7470A		1	NAR	02/19/13 9:56	20	40	CB31602
Selenium	ND (0.025)	6010B		1	SVD	02/16/13 22:58	50	25	CB31601
Silver	ND (0.005)	6010B		1	SVD	02/16/13 22:58	50	25	CB31601



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-4
Date Sampled: 02/13/13 11:53
Percent Solids: N/A

ESS Laboratory Work Order: 1302205
ESS Laboratory Sample ID: 1302205-02
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0206 (0.0025)	7060A		1	AA	02/16/13 20:29	50	25	CB31326
Barium	0.090 (0.025)	6010B		1	SVD	02/14/13 22:58	50	25	CB31326
Cadmium	ND (0.0025)	6010B		1	SVD	02/14/13 22:58	50	25	CB31326
Chromium	0.021 (0.010)	6010B		1	SVD	02/14/13 22:58	50	25	CB31326
Lead	0.030 (0.010)	6010B		1	SVD	02/14/13 22:58	50	25	CB31326
Mercury	0.00074 (0.00020)	7470A		1	NAR	02/19/13 9:58	20	40	CB31602
Selenium	ND (0.025)	6010B		1	SVD	02/14/13 22:58	50	25	CB31326
Silver	ND (0.005)	6010B		1	SVD	02/14/13 22:58	50	25	CB31326



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302205

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Dissolved Metals Aqueous

Batch CB31601 - 3005A

Blank

Arsenic	ND	0.0025	mg/L
Barium	ND	0.025	mg/L
Cadmium	ND	0.0025	mg/L
Chromium	ND	0.010	mg/L
Lead	ND	0.010	mg/L
Selenium	ND	0.025	mg/L
Silver	ND	0.005	mg/L

Blank

Arsenic	ND	0.0050	mg/L
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LCS

Barium	0.255	0.025	mg/L	0.2500	102	80-120
Cadmium	0.124	0.0025	mg/L	0.1250	99	80-120
Chromium	0.259	0.010	mg/L	0.2500	104	80-120
Lead	0.258	0.010	mg/L	0.2500	103	80-120
Selenium	0.500	0.025	mg/L	0.5000	100	80-120
Silver	0.133	0.005	mg/L	0.1250	107	80-120

LCS

Arsenic	0.0109	0.0025	mg/L	0.01000	109	80-120
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LCS Dup

Barium	0.252	0.025	mg/L	0.2500	101	80-120	1	20
Cadmium	0.121	0.0025	mg/L	0.1250	96	80-120	3	20
Chromium	0.255	0.010	mg/L	0.2500	102	80-120	2	20
Lead	0.254	0.010	mg/L	0.2500	101	80-120	2	20
Selenium	0.491	0.025	mg/L	0.5000	98	80-120	2	20
Silver	0.129	0.005	mg/L	0.1250	104	80-120	3	20

LCS Dup

Arsenic	0.0107	0.0025	mg/L	0.01000	107	80-120	2	20
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Batch CB31602 - 245.1/7470A

Blank

Mercury	ND	0.00020	mg/L
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LCS

Mercury	0.00576	0.00020	mg/L	0.006000	96	80-120
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LCS Dup

Mercury	0.00571	0.00020	mg/L	0.006000	95	80-120	0.9	20
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Total Metals Aqueous

Batch CB31326 - 3005A

Blank

Arsenic	ND	0.0025	mg/L
Barium	ND	0.025	mg/L
Cadmium	ND	0.0025	mg/L



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302205

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Aqueous										
Batch CB31326 - 3005A										
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							
Blank										
Arsenic	ND	0.0050	mg/L							
LCS										
Barium	0.253	0.025	mg/L	0.2500		101	80-120			
Cadmium	0.123	0.0025	mg/L	0.1250		99	80-120			
Chromium	0.254	0.010	mg/L	0.2500		101	80-120			
Lead	0.251	0.010	mg/L	0.2500		100	80-120			
Selenium	0.469	0.025	mg/L	0.5000		94	80-120			
Silver	0.129	0.005	mg/L	0.1250		104	80-120			
LCS										
Arsenic	0.0098	0.0025	mg/L	0.01000		98	80-120			
LCS Dup										
Barium	0.249	0.025	mg/L	0.2500		100	80-120	2	20	
Cadmium	0.123	0.0025	mg/L	0.1250		98	80-120	0.4	20	
Chromium	0.253	0.010	mg/L	0.2500		101	80-120	0.4	20	
Lead	0.249	0.010	mg/L	0.2500		100	80-120	0.6	20	
Selenium	0.468	0.025	mg/L	0.5000		94	80-120	0.3	20	
Silver	0.129	0.005	mg/L	0.1250		103	80-120	0.4	20	
LCS Dup										
Arsenic	0.0095	0.0025	mg/L	0.01000		95	80-120	3	20	
Batch CB31602 - 245.1/7470A										
Blank										
Mercury	ND	0.00020	mg/L							
LCS										
Mercury	0.00576	0.00020	mg/L	0.006000		96	80-120			
LCS Dup										
Mercury	0.00571	0.00020	mg/L	0.006000		95	80-120	0.9	20	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Barrington

ESS Laboratory Work Order: 1302205

Notes and Definitions

- U Analyte included in the analysis, but not detected
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302205

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

Sample and Cooler Receipt Checklist

Client: Resource Controls
 Client Project ID: _____
 Shipped/Delivered Via: ESS Courier

ESS Project ID: 13020205
 Date Project Due: 2/20/13
 Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|--|-------------------------------|---|---------------------------------|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> N/A |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input type="checkbox"/> No |
| <input type="text" value="Cooler Temp: 2.4"/> | | 16. Are ESS labels on correct containers? | <input type="checkbox"/> Yes\|No |
| <input type="text" value="Iced With: Icepacks"/> | | 17. Were samples received intact? | <input type="checkbox"/> Yes\|No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: _____ | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: _____ | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: _____ | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: _____ | |

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	250 ml Plastic	1	HNO3
1	Yes	250 ml Plastic	1	NP
2	Yes	250 ml Plastic	1	HNO3
2	Yes	250 ml Plastic	1	NP

Completed By: JN
 Reviewed By: ED

Date/Time: 2/13/13
 Date/Time: 2/13/13



CERTIFICATE OF ANALYSIS

Daniel Boynes
Resource Controls
474 Broadway
Pawtucket, RI 02860-1377

RE: Barrington (7131)
ESS Laboratory Work Order Number: 1302206

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 5:09 pm, Feb 21, 2013

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302206

SAMPLE RECEIPT

The following samples were received on February 13, 2013 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1302206-01	RCA-1 0.5ft-2ft	Soil	6010B, 7471A, 8270C
1302206-02	RCA-2 0.5ft-1.5ft	Soil	6010B, 7471A, 8270C
1302206-03	RCA-3 0.5ft-2ft	Soil	6010B, 7471A, 8270C



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302206

PROJECT NARRATIVE

8270C Polynuclear Aromatic Hydrocarbons

CWB0138-CCV1 [Pentachlorophenol tailing factor > 2.](#)

Total Metals Solid

1302206-01 [Elevated Method Reporting Limits due to sample matrix \(EL\).](#)

Selenium

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302206

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: RCA-1 0.5ft-2ft
Date Sampled: 02/13/13 12:30
Percent Solids: 82

ESS Laboratory Work Order: 1302206
ESS Laboratory Sample ID: 1302206-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	25.7 (2.5)	6010B		1	NAR	02/16/13 13:23	2.45	100	CB31519
Barium	43.6 (2.5)	6010B		1	NAR	02/16/13 13:23	2.45	100	CB31519
Cadmium	ND (0.50)	6010B		1	NAR	02/16/13 13:23	2.45	100	CB31519
Chromium	6.4 (1.0)	6010B		1	NAR	02/16/13 13:23	2.45	100	CB31519
Lead	38.3 (5.0)	6010B		1	NAR	02/16/13 13:23	2.45	100	CB31519
Mercury	0.164 (0.040)	7471A		1	JP	02/16/13 15:17	0.61	40	CB31524
Selenium	EL ND (14.9)	6010B		3	SVD	02/19/13 22:35	2.45	100	CB31519
Silver	ND (0.50)	6010B		1	NAR	02/16/13 13:23	2.45	100	CB31519



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: RCA-1 0.5ft-2ft
Date Sampled: 02/13/13 12:30
Percent Solids: 82
Initial Volume: 14.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1302206
ESS Laboratory Sample ID: 1302206-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 2/13/13 16:40

8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Acenaphthene	ND (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Acenaphthylene	ND (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Anthracene	ND (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Benzo(a)anthracene	0.470 (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Benzo(a)pyrene	0.391 (0.209)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Benzo(b)fluoranthene	0.545 (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Benzo(g,h,i)perylene	ND (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Benzo(k)fluoranthene	ND (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Chrysene	0.499 (0.209)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Dibenzo(a,h)Anthracene	ND (0.209)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Fluoranthene	1.16 (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Fluorene	ND (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Indeno(1,2,3-cd)Pyrene	ND (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Naphthalene	ND (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Phenanthrene	0.733 (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330
Pyrene	0.932 (0.417)	8270C		1	02/13/13 22:15	CWB0138	CB31330

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	60 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	63 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	67 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	85 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: RCA-2 0.5ft-1.5ft
Date Sampled: 02/13/13 13:15
Percent Solids: 84

ESS Laboratory Work Order: 1302206
ESS Laboratory Sample ID: 1302206-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	5.4 (2.8)	6010B		1	NAR	02/16/13 13:29	2.09	100	CB31519
Barium	21.3 (2.8)	6010B		1	NAR	02/16/13 13:29	2.09	100	CB31519
Cadmium	ND (0.57)	6010B		1	NAR	02/16/13 13:29	2.09	100	CB31519
Chromium	7.7 (1.1)	6010B		1	NAR	02/16/13 13:29	2.09	100	CB31519
Lead	31.0 (5.7)	6010B		1	NAR	02/16/13 13:29	2.09	100	CB31519
Mercury	0.067 (0.037)	7471A		1	JP	02/16/13 15:19	0.63	40	CB31524
Selenium	ND (5.7)	6010B		1	NAR	02/16/13 13:29	2.09	100	CB31519
Silver	ND (0.57)	6010B		1	NAR	02/16/13 13:29	2.09	100	CB31519



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: RCA-2 0.5ft-1.5ft
Date Sampled: 02/13/13 13:15
Percent Solids: 84
Initial Volume: 14.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1302206
ESS Laboratory Sample ID: 1302206-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 2/13/13 16:40

8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Acenaphthene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Acenaphthylene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Anthracene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Benzo(a)anthracene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Benzo(a)pyrene	ND (0.200)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Benzo(b)fluoranthene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Benzo(g,h,i)perylene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Benzo(k)fluoranthene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Chrysene	ND (0.200)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Dibenzo(a,h)Anthracene	ND (0.200)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Fluoranthene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Fluorene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Indeno(1,2,3-cd)Pyrene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Naphthalene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Phenanthrene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330
Pyrene	ND (0.399)	8270C		1	02/13/13 22:46	CWB0138	CB31330

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	84 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	81 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	93 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	89 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: RCA-3 0.5ft-2ft
Date Sampled: 02/13/13 13:45
Percent Solids: 86

ESS Laboratory Work Order: 1302206
ESS Laboratory Sample ID: 1302206-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.0 (2.8)	6010B		1	NAR	02/16/13 13:33	2.09	100	CB31519
Barium	13.5 (2.8)	6010B		1	NAR	02/16/13 13:33	2.09	100	CB31519
Cadmium	ND (0.56)	6010B		1	NAR	02/16/13 13:33	2.09	100	CB31519
Chromium	20.5 (1.1)	6010B		1	NAR	02/16/13 13:33	2.09	100	CB31519
Lead	31.3 (5.6)	6010B		1	NAR	02/16/13 13:33	2.09	100	CB31519
Mercury	0.394 (0.036)	7471A		1	JP	02/16/13 15:22	0.64	40	CB31524
Selenium	ND (5.6)	6010B		1	NAR	02/16/13 13:33	2.09	100	CB31519
Silver	ND (0.56)	6010B		1	NAR	02/16/13 13:33	2.09	100	CB31519



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: RCA-3 0.5ft-2ft
Date Sampled: 02/13/13 13:45
Percent Solids: 86
Initial Volume: 14.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1302206
ESS Laboratory Sample ID: 1302206-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 2/13/13 16:40

8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Acenaphthene	0.862 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Acenaphthylene	ND (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Anthracene	1.21 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Benzo(a)anthracene	4.09 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Benzo(a)pyrene	3.14 (0.197)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Benzo(b)fluoranthene	4.14 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Benzo(g,h,i)perylene	1.25 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Benzo(k)fluoranthene	1.15 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Chrysene	4.29 (0.197)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Dibenzo(a,h)Anthracene	0.300 (0.197)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Fluoranthene	9.00 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Fluorene	0.535 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Indeno(1,2,3-cd)Pyrene	1.22 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Naphthalene	ND (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Phenanthrene	7.92 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330
Pyrene	9.66 (0.392)	8270C		1	02/13/13 23:18	CWB0138	CB31330

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	67 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	67 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	75 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	78 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302206

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals Solid

Batch CB31519 - 3050B

Blank

Arsenic	ND	2.5	mg/kg wet
Barium	ND	2.5	mg/kg wet
Cadmium	ND	0.50	mg/kg wet
Chromium	ND	1.0	mg/kg wet
Lead	ND	5.0	mg/kg wet
Selenium	ND	5.0	mg/kg wet
Silver	ND	0.50	mg/kg wet

LCS

Arsenic	83.2	9.2	mg/kg wet	94.50	88	80-120
Barium	149	9.2	mg/kg wet	166.0	90	80-120
Cadmium	50.1	1.86	mg/kg wet	59.90	84	80-120
Chromium	62.5	3.7	mg/kg wet	69.30	90	80-120
Lead	81.7	18.5	mg/kg wet	91.70	89	80-120
Selenium	131	18.5	mg/kg wet	159.0	83	80-120
Silver	31.2	1.86	mg/kg wet	33.90	92	80-120

LCS Dup

Arsenic	83.0	9.2	mg/kg wet	94.50	88	80-120	0.2	20
Barium	148	9.2	mg/kg wet	166.0	89	80-120	0.3	20
Cadmium	49.6	1.86	mg/kg wet	59.90	83	80-120	0.9	20
Chromium	62.1	3.7	mg/kg wet	69.30	90	80-120	0.7	20
Lead	81.1	18.5	mg/kg wet	91.70	88	80-120	0.7	20
Selenium	133	18.5	mg/kg wet	159.0	84	80-120	2	20
Silver	30.4	1.86	mg/kg wet	33.90	90	80-120	2	20

Batch CB31524 - 7471A

Blank

Mercury	ND	0.033	mg/kg wet
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LCS

Mercury	3.90	0.649	mg/kg wet	4.050	96	80-120
---------	------	-------	-----------	-------	----	--------

LCS Dup

Mercury	4.00	0.660	mg/kg wet	4.050	99	80-120	2	20
---------	------	-------	-----------	-------	----	--------	---	----

8270C Polynuclear Aromatic Hydrocarbons

Batch CB31330 - 3546

Blank

2-Methylnaphthalene	ND	0.333	mg/kg wet
Acenaphthene	ND	0.333	mg/kg wet
Acenaphthylene	ND	0.333	mg/kg wet
Anthracene	ND	0.333	mg/kg wet
Benzo(a)anthracene	ND	0.333	mg/kg wet
Benzo(a)pyrene	ND	0.167	mg/kg wet
Benzo(b)fluoranthene	ND	0.333	mg/kg wet
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302206

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

8270C Polynuclear Aromatic Hydrocarbons

Batch CB31330 - 3546

Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.83		mg/kg wet	3.333		85	30-130			
Surrogate: 2-Fluorobiphenyl	2.64		mg/kg wet	3.333		79	30-130			
Surrogate: Nitrobenzene-d5	3.07		mg/kg wet	3.333		92	30-130			
Surrogate: p-Terphenyl-d14	2.81		mg/kg wet	3.333		84	30-130			

LCS

2-Methylnaphthalene	2.68	0.333	mg/kg wet	3.333		80	40-140			
Acenaphthene	2.70	0.333	mg/kg wet	3.333		81	40-140			
Acenaphthylene	2.73	0.333	mg/kg wet	3.333		82	40-140			
Anthracene	2.54	0.333	mg/kg wet	3.333		76	40-140			
Benzo(a)anthracene	2.64	0.333	mg/kg wet	3.333		79	40-140			
Benzo(a)pyrene	2.44	0.167	mg/kg wet	3.333		73	40-140			
Benzo(b)fluoranthene	2.81	0.333	mg/kg wet	3.333		84	40-140			
Benzo(g,h,i)perylene	2.15	0.333	mg/kg wet	3.333		65	40-140			
Benzo(k)fluoranthene	2.95	0.333	mg/kg wet	3.333		89	40-140			
Chrysene	2.65	0.167	mg/kg wet	3.333		79	40-140			
Dibenzo(a,h)Anthracene	2.24	0.167	mg/kg wet	3.333		67	40-140			
Fluoranthene	2.65	0.333	mg/kg wet	3.333		79	40-140			
Fluorene	2.54	0.333	mg/kg wet	3.333		76	40-140			
Indeno(1,2,3-cd)Pyrene	2.21	0.333	mg/kg wet	3.333		66	40-140			
Naphthalene	2.64	0.333	mg/kg wet	3.333		79	40-140			
Phenanthrene	2.61	0.333	mg/kg wet	3.333		78	40-140			
Pyrene	3.52	0.333	mg/kg wet	3.333		106	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.71		mg/kg wet	3.333		81	30-130			
Surrogate: 2-Fluorobiphenyl	2.66		mg/kg wet	3.333		80	30-130			
Surrogate: Nitrobenzene-d5	2.64		mg/kg wet	3.333		79	30-130			
Surrogate: p-Terphenyl-d14	3.47		mg/kg wet	3.333		104	30-130			

LCS Dup

2-Methylnaphthalene	3.05	0.333	mg/kg wet	3.333		92	40-140	13	30	
Acenaphthene	2.82	0.333	mg/kg wet	3.333		85	40-140	4	30	
Acenaphthylene	2.83	0.333	mg/kg wet	3.333		85	40-140	4	30	
Anthracene	2.79	0.333	mg/kg wet	3.333		84	40-140	9	30	
Benzo(a)anthracene	2.71	0.333	mg/kg wet	3.333		81	40-140	2	30	
Benzo(a)pyrene	2.60	0.167	mg/kg wet	3.333		78	40-140	6	30	
Benzo(b)fluoranthene	2.90	0.333	mg/kg wet	3.333		87	40-140	3	30	
Benzo(g,h,i)perylene	2.52	0.333	mg/kg wet	3.333		76	40-140	16	30	
Benzo(k)fluoranthene	2.74	0.333	mg/kg wet	3.333		82	40-140	8	30	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302206

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

8270C Polynuclear Aromatic Hydrocarbons

Batch CB31330 - 3546

Chrysene	2.61	0.167	mg/kg wet	3.333		78	40-140	1	30	
Dibenzo(a,h)Anthracene	2.47	0.167	mg/kg wet	3.333		74	40-140	10	30	
Fluoranthene	3.12	0.333	mg/kg wet	3.333		94	40-140	16	30	
Fluorene	3.00	0.333	mg/kg wet	3.333		90	40-140	17	30	
Indeno(1,2,3-cd)Pyrene	2.63	0.333	mg/kg wet	3.333		79	40-140	17	30	
Naphthalene	2.89	0.333	mg/kg wet	3.333		87	40-140	9	30	
Phenanthrene	2.86	0.333	mg/kg wet	3.333		86	40-140	9	30	
Pyrene	2.85	0.333	mg/kg wet	3.333		86	40-140	21	30	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>2.83</i>		mg/kg wet	<i>3.333</i>		<i>85</i>	<i>30-130</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2.80</i>		mg/kg wet	<i>3.333</i>		<i>84</i>	<i>30-130</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>3.24</i>		mg/kg wet	<i>3.333</i>		<i>97</i>	<i>30-130</i>			
<i>Surrogate: p-Terphenyl-d14</i>	<i>3.06</i>		mg/kg wet	<i>3.333</i>		<i>92</i>	<i>30-130</i>			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302206

Notes and Definitions

- U Analyte included in the analysis, but not detected
- PT Pentachlorophenol tailing factor > 2.
- EL Elevated Method Reporting Limits due to sample matrix (EL).
- D Diluted.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1302206

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

Sample and Cooler Receipt Checklist

Client: Resource Controls
 Client Project ID: _____
 Shipped/Delivered Via: ESS Courier

ESS Project ID: 13020206
 Date Project Due: 2/20/13
 Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|--|-----------------------------------|---|-------------------------------------|
| 1. Air Bill Manifest Present? | <input type="text" value="* No"/> | 10. Are the samples properly preserved? | <input type="text" value="Yes"/> |
| Air No.: | | 11. Proper sample containers used? | <input type="text" value="Yes"/> |
| 2. Were Custody Seals Present? | <input type="text" value="No"/> | 12. Any air bubbles in the VOA vials? | <input type="text" value="N/A"/> |
| 3. Were Custody Seals Intact? | <input type="text" value="N/A"/> | 13. Holding times exceeded? | <input type="text" value="No"/> |
| 4. Is Radiation count < 100 CPM? | <input type="text" value="Yes"/> | 14. Sufficient sample volumes? | <input type="text" value="Yes"/> |
| 5. Is a cooler present? | <input type="text" value="Yes"/> | 15. Any Subcontracting needed? | <input type="text" value="No"/> |
| <input type="text" value="Cooler Temp: 2.4"/> | | 16. Are ESS labels on correct containers? | <input type="text" value="Yes No"/> |
| <input type="text" value="Iced With: Icepacks"/> | | 17. Were samples received intact? | <input type="text" value="Yes No"/> |
| 6. Was COC included with samples? | <input type="text" value="Yes"/> | ESS Sample IDs: _____ | |
| 7. Was COC signed and dated by client? | <input type="text" value="Yes"/> | Sub Lab: _____ | |
| 8. Does the COC match the sample | <input type="text" value="Yes"/> | Analysis: _____ | |
| 9. Is COC complete and correct? | <input type="text" value="Yes"/> | TAT: _____ | |

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP

Completed By: JN
 Reviewed By: EO

Date/Time: 2/13/13
 Date/Time: 2/13/13

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time: L Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA (R) CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits: GA
 Electronic Deliverable: Yes No _____
 Format: Excel Access _____ PDF Other _____

ESS LAB PROJECT ID: 1302206

Project Name (20 Char. or less): PROSELY, BAKERVINGTON
 Address: 474 BROADWAY
 City: PROVIDENCE State: RI Zip: 02800
 PO#: 71313413181
 Email Address: PROSELY@PROSELY.COM

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
1	2/13/13	10:26		X	GW	MW-3	14	2	P	✓
2		11:53		X	GW	MW-4	14	2	P	✓
3		12:30	X		S	ACA-1 (0.5'-2')	1	1	G	✓
4		13:15	X		S	ACA-2 (0.5'-1.5')	1	1	G	✓
5		13:45	X		S	ACA-3 (0.5'-2')	1	1	G	✓

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water G-W-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: Yes No Internal Use Only Pickup Technicians
 Seals Intact: Yes No NA: _____
 Cooler Temp: 2.4°C

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12/13/13 14:35	<i>[Signature]</i>	12/13/13 14:35				
<i>[Signature]</i>		<i>[Signature]</i>					

Sampled by: Daniel Boyes
 Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-57320-2

Client Project/Site: 7131A Rhode Island

For:

Resource Control Associates, Inc.

474 Broadway

Pawtucket, Rhode Island 02860

Attn: Ms. Danielle Eastman-Getsinger



Authorized for release by:

4/16/2014 4:29:31 PM

Steve Hartmann, Service Center Manager

(413)572-4000

steve.hartmann@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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3

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8

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10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	12
QC Association Summary	21
Lab Chronicle	24
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	31

Definitions/Glossary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Job ID: 480-57320-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-57320-2

Comments

No additional comments.

Receipt

The samples were received on 4/5/2014 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS VOA (8260)

Method(s) 8260C: The LCS recovery was above TestAmerica's internal laboratory QC limits for 2-Butanone. This analyte is not a reported spiking compound; therefore the recovery is being noted for advisory purposes only. All other quality control indicators, including the continuing calibration verification, were within method prescribed limits for this analyte.

No other analytical or quality issues were noted.

GC/MS Semi VOA (8270)

Method(s) 8270D: The matrix spike(MS) recoveries for analytical batch 480-175108 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D: The matrix spike duplicate (MSD) precision for preparation batch 480-174663 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

No other analytical or quality issues were noted.

GC Semi VOA (8015)

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Client Sample ID: TN Composite

Lab Sample ID: 480-57320-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	21	J	190	2.3	ug/Kg	1	*	8270D	Total/NA
Acenaphthene	51	J	190	2.2	ug/Kg	1	*	8270D	Total/NA
Acenaphthylene	49	J	190	1.5	ug/Kg	1	*	8270D	Total/NA
Anthracene	160	J	190	4.8	ug/Kg	1	*	8270D	Total/NA
Benzaldehyde	33	J	190	21	ug/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	730		190	3.2	ug/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	670		190	4.5	ug/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	970		190	3.6	ug/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	410		190	2.2	ug/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	390		190	2.1	ug/Kg	1	*	8270D	Total/NA
Carbazole	83	J	190	2.2	ug/Kg	1	*	8270D	Total/NA
Chrysene	830		190	1.9	ug/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	130	J	190	2.2	ug/Kg	1	*	8270D	Total/NA
Dibenzofuran	32	J	190	1.9	ug/Kg	1	*	8270D	Total/NA
Fluoranthene	1400		190	2.7	ug/Kg	1	*	8270D	Total/NA
Fluorene	55	J	190	4.3	ug/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	360		190	5.2	ug/Kg	1	*	8270D	Total/NA
Naphthalene	32	J	190	3.1	ug/Kg	1	*	8270D	Total/NA
Phenanthrene	740		190	3.9	ug/Kg	1	*	8270D	Total/NA
Pyrene	1200		190	1.2	ug/Kg	1	*	8270D	Total/NA
Diesel Range Organics [C10-C28]	38		19	5.5	mg/Kg	1	*	8015D	Total/NA
Arsenic	2.4		2.0	0.40	mg/Kg	1		6010C	Total/NA
Barium	37	^	0.50	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.40		0.20	0.030	mg/Kg	1		6010C	Total/NA
Chromium	32		0.50	0.20	mg/Kg	1		6010C	Total/NA
Lead	480		1.0	0.24	mg/Kg	1		6010C	Total/NA
Hg	0.076		0.020	0.0081	mg/Kg	1		7471B	Total/NA
Sulfide, Reactive	4.0	J	10	0.57	mg/Kg	1		9034	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010	Total/NA
pH	4.93		0.100	0.100	SU	1		9045C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Client Sample ID: TN Composite

Lab Sample ID: 480-57320-2

Date Collected: 04/02/14 11:55

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 88.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.4	0.39	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,1,2,2-Tetrachloroethane	ND		5.4	0.88	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4	1.2	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,1,2-Trichloroethane	ND		5.4	0.70	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,1-Dichloroethane	ND		5.4	0.66	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,1-Dichloroethene	ND		5.4	0.66	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,2-Dibromo-3-Chloropropane	ND		5.4	2.7	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,2-Dibromoethane	ND		5.4	0.69	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,2-Dichlorobenzene	ND		5.4	0.42	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,2-Dichloroethane	ND		5.4	0.27	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,2-Dichloropropane	ND		5.4	2.7	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,3-Dichlorobenzene	ND		5.4	0.28	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
1,4-Dichlorobenzene	ND		5.4	0.76	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
2-Butanone (MEK)	ND	*	27	2.0	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
2-Hexanone	ND		27	2.7	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Acetone	ND		27	4.5	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Benzene	ND		5.4	0.26	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Bromodichloromethane	ND		5.4	0.72	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Bromoform	ND		5.4	2.7	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Bromomethane	ND		5.4	0.49	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Carbon disulfide	ND		5.4	2.7	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Carbon tetrachloride	ND		5.4	0.52	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Chlorobenzene	ND		5.4	0.71	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Chloroethane	ND		5.4	1.2	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Chloroform	ND		5.4	0.33	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Chloromethane	ND		5.4	0.33	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
cis-1,2-Dichloroethene	ND		5.4	0.69	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
cis-1,3-Dichloropropene	ND		5.4	0.78	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Cyclohexane	ND		5.4	0.76	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Dibromochloromethane	ND		5.4	0.69	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Dichlorodifluoromethane	ND		5.4	0.45	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Ethylbenzene	ND		5.4	0.37	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Isopropylbenzene	ND		5.4	0.81	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Methyl acetate	ND		5.4	1.0	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Methyl tert-butyl ether	ND		5.4	0.53	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Methylcyclohexane	ND		5.4	0.82	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Methylene Chloride	ND		5.4	2.5	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Styrene	ND		5.4	0.27	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Tetrachloroethene	ND	*	5.4	0.72	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Toluene	ND		5.4	0.41	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
trans-1,2-Dichloroethene	ND		5.4	0.56	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
trans-1,3-Dichloropropene	ND		5.4	2.4	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Trichloroethene	ND		5.4	1.2	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Trichlorofluoromethane	ND		5.4	0.51	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Vinyl chloride	ND		5.4	0.66	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1
Xylenes, Total	ND		11	0.91	ug/Kg	☼	04/07/14 01:35	04/08/14 20:00	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Client Sample ID: TN Composite

Lab Sample ID: 480-57320-2

Date Collected: 04/02/14 11:55

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 88.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	04/07/14 01:35	04/08/14 20:00	1
4-Bromofluorobenzene (Surr)	101		72 - 126	04/07/14 01:35	04/08/14 20:00	1
Toluene-d8 (Surr)	102		71 - 125	04/07/14 01:35	04/08/14 20:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	41	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2,4,6-Trichlorophenol	ND		190	12	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2,4-Dichlorophenol	ND		190	9.8	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2,4-Dimethylphenol	ND		190	51	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2,4-Dinitrophenol	ND		370	65	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2,4-Dinitrotoluene	ND		190	29	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2,6-Dinitrotoluene	ND		190	46	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2-Chloronaphthalene	ND		190	13	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2-Chlorophenol	ND		190	9.5	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2-Methylnaphthalene	21	J	190	2.3	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2-Methylphenol	ND		190	5.8	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2-Nitroaniline	ND		370	60	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
2-Nitrophenol	ND		190	8.6	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
3,3'-Dichlorobenzidine	ND		190	160	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
3-Nitroaniline	ND		370	43	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
4,6-Dinitro-2-methylphenol	ND		370	65	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
4-Bromophenyl phenyl ether	ND		190	60	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
4-Chloro-3-methylphenol	ND		190	7.7	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
4-Chloroaniline	ND		190	55	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
4-Chlorophenyl phenyl ether	ND		190	4.0	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
4-Methylphenol	ND		370	10	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
4-Nitroaniline	ND		370	21	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
4-Nitrophenol	ND		370	45	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Acenaphthene	51	J	190	2.2	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Acenaphthylene	49	J	190	1.5	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Acetophenone	ND		190	9.6	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Anthracene	160	J	190	4.8	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Atrazine	ND		190	8.3	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Benzaldehyde	33	J	190	21	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Benzo[a]anthracene	730		190	3.2	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Benzo[a]pyrene	670		190	4.5	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Benzo[b]fluoranthene	970		190	3.6	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Benzo[g,h,i]perylene	410		190	2.2	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Benzo[k]fluoranthene	390		190	2.1	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Biphenyl	ND		190	12	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
bis (2-chloroisopropyl) ether	ND		190	20	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Bis(2-chloroethoxy)methane	ND		190	10	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Bis(2-chloroethyl)ether	ND		190	16	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Bis(2-ethylhexyl) phthalate	ND		190	60	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Butyl benzyl phthalate	ND		190	50	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Caprolactam	ND		190	81	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Carbazole	83	J	190	2.2	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Chrysene	830		190	1.9	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Dibenz(a,h)anthracene	130	J	190	2.2	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Client Sample ID: TN Composite

Lab Sample ID: 480-57320-2

Date Collected: 04/02/14 11:55

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	32	J	190	1.9	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Diethyl phthalate	ND		190	5.7	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Dimethyl phthalate	ND		190	4.9	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Di-n-butyl phthalate	ND		190	65	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Di-n-octyl phthalate	ND		190	4.4	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Fluoranthene	1400		190	2.7	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Fluorene	55	J	190	4.3	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Hexachlorobenzene	ND		190	9.3	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Hexachlorobutadiene	ND		190	9.6	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Hexachlorocyclopentadiene	ND		190	57	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Hexachloroethane	ND		190	14	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Indeno[1,2,3-cd]pyrene	360		190	5.2	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Isophorone	ND		190	9.4	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Naphthalene	32	J	190	3.1	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Nitrobenzene	ND		190	8.3	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
N-Nitrosodi-n-propylamine	ND		190	15	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
N-Nitrosodiphenylamine	ND		190	10	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Pentachlorophenol	ND		370	64	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Phenanthrene	740		190	3.9	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Phenol	ND		190	20	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Pyrene	1200		190	1.2	ug/Kg	☼	04/09/14 09:17	04/11/14 11:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		39 - 146				04/09/14 09:17	04/11/14 11:30	1
2-Fluorobiphenyl	96		37 - 120				04/09/14 09:17	04/11/14 11:30	1
2-Fluorophenol (Surr)	90		18 - 120				04/09/14 09:17	04/11/14 11:30	1
Nitrobenzene-d5 (Surr)	88		34 - 132				04/09/14 09:17	04/11/14 11:30	1
Phenol-d5 (Surr)	89		11 - 120				04/09/14 09:17	04/11/14 11:30	1
p-Terphenyl-d14 (Surr)	96		65 - 153				04/09/14 09:17	04/11/14 11:30	1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		19	5.5	mg/Kg	☼	04/09/14 09:42	04/09/14 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		48 - 125				04/09/14 09:42	04/09/14 21:24	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	04/10/14 15:16	04/11/14 21:58	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	04/10/14 15:16	04/11/14 21:58	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	04/10/14 15:16	04/11/14 21:58	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	04/10/14 15:16	04/11/14 21:58	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	04/10/14 15:16	04/11/14 21:58	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	04/10/14 15:16	04/11/14 21:58	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	04/10/14 15:16	04/11/14 21:58	1
PCB-1262	ND		0.26	0.12	mg/Kg	☼	04/10/14 15:16	04/11/14 21:58	1
PCB-1268	ND		0.26	0.12	mg/Kg	☼	04/10/14 15:16	04/11/14 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		46 - 175				04/10/14 15:16	04/11/14 21:58	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Client Sample ID: TN Composite

Lab Sample ID: 480-57320-2

Date Collected: 04/02/14 11:55

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 88.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		47 - 176	04/10/14 15:16	04/11/14 21:58	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		2.0	0.40	mg/Kg		04/08/14 13:25	04/15/14 12:02	1
Barium	37	^	0.50	0.11	mg/Kg		04/08/14 13:25	04/15/14 12:02	1
Cadmium	0.40		0.20	0.030	mg/Kg		04/08/14 13:25	04/15/14 12:02	1
Chromium	32		0.50	0.20	mg/Kg		04/08/14 13:25	04/15/14 12:02	1
Lead	480		1.0	0.24	mg/Kg		04/08/14 13:25	04/15/14 12:02	1
Selenium	ND		4.0	0.40	mg/Kg		04/08/14 13:25	04/15/14 12:02	1
Silver	ND		0.60	0.20	mg/Kg		04/08/14 13:25	04/15/14 12:02	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.076		0.020	0.0081	mg/Kg		04/09/14 12:00	04/09/14 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	passed		NONE	NONE	mL/100g			04/08/14 18:35	1
Cyanide, Reactive	ND		10	0.0030	mg/Kg		04/10/14 00:30	04/10/14 10:26	1
Sulfide, Reactive	4.0	J	10	0.57	mg/Kg		04/10/14 07:33	04/10/14 08:20	1
Flashpoint	>176.0		50.0	50.0	Degrees F			04/11/14 15:15	1
pH	4.93		0.100	0.100	SU			04/09/14 17:15	1

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (64-126)	BFB (72-126)	TOL (71-125)
480-57320-2	TN Composite	108	101	102
LCS 480-174450/5	Lab Control Sample	107	101	100
MB 480-174450/7	Method Blank	99	98	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (39-146)	FBP (37-120)	2FP (18-120)	NBZ (34-132)	PHL (11-120)	TPH (65-153)
480-57320-2	TN Composite	99	96	90	88	89	96
480-57320-2 MS	TN Composite	107	96	88	89	92	92
480-57320-2 MSD	TN Composite	104	98	86	89	89	92
LCS 480-174663/2-A	Lab Control Sample	103	97	84	92	85	102
MB 480-174663/1-A	Method Blank	87	97	86	86	90	105

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTPH (48-125)
480-57320-2	TN Composite	84
LCS 480-174686/2-A	Lab Control Sample	91
LCSD 480-174686/3-A	Lab Control Sample Dup	92
MB 480-174686/1-A	Method Blank	86

Surrogate Legend

OTPH = o-Terphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (46-175)	DCB2 (47-176)
480-57320-2	TN Composite	98	109

TestAmerica Buffalo

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (46-175)	DCB2 (47-176)
LCS 480-175027/2-A	Lab Control Sample	114	130
MB 480-175027/1-A	Method Blank	104	115

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-174450/7

Matrix: Solid

Analysis Batch: 174450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			04/08/14 12:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg			04/08/14 12:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg			04/08/14 12:32	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg			04/08/14 12:32	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg			04/08/14 12:32	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg			04/08/14 12:32	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg			04/08/14 12:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg			04/08/14 12:32	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg			04/08/14 12:32	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg			04/08/14 12:32	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg			04/08/14 12:32	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			04/08/14 12:32	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg			04/08/14 12:32	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg			04/08/14 12:32	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg			04/08/14 12:32	1
2-Hexanone	ND		25	2.5	ug/Kg			04/08/14 12:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg			04/08/14 12:32	1
Acetone	ND		25	4.2	ug/Kg			04/08/14 12:32	1
Benzene	ND		5.0	0.25	ug/Kg			04/08/14 12:32	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg			04/08/14 12:32	1
Bromoform	ND		5.0	2.5	ug/Kg			04/08/14 12:32	1
Bromomethane	ND		5.0	0.45	ug/Kg			04/08/14 12:32	1
Carbon disulfide	ND		5.0	2.5	ug/Kg			04/08/14 12:32	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg			04/08/14 12:32	1
Chlorobenzene	ND		5.0	0.66	ug/Kg			04/08/14 12:32	1
Chloroethane	ND		5.0	1.1	ug/Kg			04/08/14 12:32	1
Chloroform	ND		5.0	0.31	ug/Kg			04/08/14 12:32	1
Chloromethane	ND		5.0	0.30	ug/Kg			04/08/14 12:32	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg			04/08/14 12:32	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg			04/08/14 12:32	1
Cyclohexane	ND		5.0	0.70	ug/Kg			04/08/14 12:32	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg			04/08/14 12:32	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg			04/08/14 12:32	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			04/08/14 12:32	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg			04/08/14 12:32	1
Methyl acetate	ND		5.0	0.93	ug/Kg			04/08/14 12:32	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg			04/08/14 12:32	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg			04/08/14 12:32	1
Methylene Chloride	ND		5.0	2.3	ug/Kg			04/08/14 12:32	1
Styrene	ND		5.0	0.25	ug/Kg			04/08/14 12:32	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			04/08/14 12:32	1
Toluene	ND		5.0	0.38	ug/Kg			04/08/14 12:32	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg			04/08/14 12:32	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg			04/08/14 12:32	1
Trichloroethene	ND		5.0	1.1	ug/Kg			04/08/14 12:32	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg			04/08/14 12:32	1
Vinyl chloride	ND		5.0	0.61	ug/Kg			04/08/14 12:32	1
Xylenes, Total	ND		10	0.84	ug/Kg			04/08/14 12:32	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-174450/7

Matrix: Solid

Analysis Batch: 174450

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		64 - 126		04/08/14 12:32	1
4-Bromofluorobenzene (Surr)	98		72 - 126		04/08/14 12:32	1
Toluene-d8 (Surr)	99		71 - 125		04/08/14 12:32	1

Lab Sample ID: LCS 480-174450/5

Matrix: Solid

Analysis Batch: 174450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1-Dichloroethane	50.0	51.1		ug/Kg		102	73 - 126
1,1-Dichloroethene	50.0	50.7		ug/Kg		101	59 - 125
1,2-Dichlorobenzene	50.0	50.2		ug/Kg		100	75 - 120
1,2-Dichloroethane	50.0	47.5		ug/Kg		95	77 - 122
Benzene	50.0	49.8		ug/Kg		100	79 - 127
Chlorobenzene	50.0	50.8		ug/Kg		102	76 - 124
cis-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	81 - 117
Ethylbenzene	50.0	51.4		ug/Kg		103	80 - 120
Methyl tert-butyl ether	50.0	47.5		ug/Kg		95	63 - 125
Tetrachloroethene	50.0	60.9		ug/Kg		122	74 - 122
Toluene	50.0	50.9		ug/Kg		102	74 - 128
trans-1,2-Dichloroethene	50.0	50.0		ug/Kg		100	78 - 126
Trichloroethene	50.0	51.1		ug/Kg		102	77 - 129

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	107		64 - 126
4-Bromofluorobenzene (Surr)	101		72 - 126
Toluene-d8 (Surr)	100		71 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-174663/1-A

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174663

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4,5-Trichlorophenol	ND		170	36	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4-Dichlorophenol	ND		170	8.7	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4-Dimethylphenol	ND		170	45	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4-Dinitrophenol	ND		330	58	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4-Dinitrotoluene	ND		170	26	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,6-Dinitrotoluene	ND		170	41	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Chloronaphthalene	ND		170	11	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Chlorophenol	ND		170	8.5	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Methylnaphthalene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Methylphenol	ND		170	5.1	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Nitroaniline	ND		330	53	ug/Kg		04/09/14 09:17	04/11/14 10:41	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-174663/1-A

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174663

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitrophenol	ND		170	7.6	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
3-Nitroaniline	ND		330	38	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4,6-Dinitro-2-methylphenol	ND		330	58	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Bromophenyl phenyl ether	ND		170	53	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Chloro-3-methylphenol	ND		170	6.9	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Chloroaniline	ND		170	49	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Methylphenol	ND		330	9.3	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Nitroaniline	ND		330	19	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Nitrophenol	ND		330	40	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Acenaphthene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Acenaphthylene	ND		170	1.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Acetophenone	ND		170	8.6	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Anthracene	ND		170	4.3	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Atrazine	ND		170	7.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzaldehyde	ND		170	18	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[a]anthracene	ND		170	2.9	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[a]pyrene	ND		170	4.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[b]fluoranthene	ND		170	3.2	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[g,h,i]perylene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[k]fluoranthene	ND		170	1.8	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Biphenyl	ND		170	10	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
bis (2-chloroisopropyl) ether	ND		170	17	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Bis(2-chloroethoxy)methane	ND		170	9.1	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Bis(2-chloroethyl)ether	ND		170	14	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Bis(2-ethylhexyl) phthalate	ND		170	54	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Butyl benzyl phthalate	ND		170	45	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Caprolactam	ND		170	72	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Carbazole	ND		170	1.9	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Chrysene	ND		170	1.7	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Dibenzofuran	ND		170	1.7	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Diethyl phthalate	ND		170	5.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Dimethyl phthalate	ND		170	4.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Di-n-butyl phthalate	ND		170	58	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Di-n-octyl phthalate	ND		170	3.9	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Fluoranthene	ND		170	2.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Fluorene	ND		170	3.8	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Hexachlorobenzene	ND		170	8.3	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Hexachlorobutadiene	ND		170	8.5	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Hexachlorocyclopentadiene	ND		170	50	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Hexachloroethane	ND		170	13	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Indeno[1,2,3-cd]pyrene	ND		170	4.6	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Isophorone	ND		170	8.3	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Naphthalene	ND		170	2.8	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Nitrobenzene	ND		170	7.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg		04/09/14 09:17	04/11/14 10:41	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-174663/1-A
Matrix: Solid
Analysis Batch: 175108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		170	9.1	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Pentachlorophenol	ND		330	57	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Phenanthrene	ND		170	3.5	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Phenol	ND		170	18	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Pyrene	ND		170	1.1	ug/Kg		04/09/14 09:17	04/11/14 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		39 - 146	04/09/14 09:17	04/11/14 10:41	1
2-Fluorobiphenyl	97		37 - 120	04/09/14 09:17	04/11/14 10:41	1
2-Fluorophenol (Surr)	86		18 - 120	04/09/14 09:17	04/11/14 10:41	1
Nitrobenzene-d5 (Surr)	86		34 - 132	04/09/14 09:17	04/11/14 10:41	1
Phenol-d5 (Surr)	90		11 - 120	04/09/14 09:17	04/11/14 10:41	1
p-Terphenyl-d14 (Surr)	105		65 - 153	04/09/14 09:17	04/11/14 10:41	1

Lab Sample ID: LCS 480-174663/2-A
Matrix: Solid
Analysis Batch: 175108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	3240	3320		ug/Kg		102	55 - 125
2-Chlorophenol	3240	2670		ug/Kg		82	38 - 120
4-Chloro-3-methylphenol	3240	3230		ug/Kg		99	49 - 125
4-Nitrophenol	6490	7170		ug/Kg		110	43 - 137
Acenaphthene	3240	3140		ug/Kg		97	53 - 120
Atrazine	3240	3220		ug/Kg		99	60 - 164
Bis(2-ethylhexyl) phthalate	3240	3300		ug/Kg		102	61 - 133
Fluorene	3240	3180		ug/Kg		98	63 - 126
Hexachloroethane	3240	2570		ug/Kg		79	41 - 120
N-Nitrosodi-n-propylamine	3240	2790		ug/Kg		86	46 - 120
Pentachlorophenol	6490	6570		ug/Kg		101	33 - 136
Phenol	3240	2680		ug/Kg		83	36 - 120
Pyrene	3240	3170		ug/Kg		98	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	103		39 - 146
2-Fluorobiphenyl	97		37 - 120
2-Fluorophenol (Surr)	84		18 - 120
Nitrobenzene-d5 (Surr)	92		34 - 132
Phenol-d5 (Surr)	85		11 - 120
p-Terphenyl-d14 (Surr)	102		65 - 153

Lab Sample ID: 480-57320-2 MS
Matrix: Solid
Analysis Batch: 175108

Client Sample ID: TN Composite
Prep Type: Total/NA
Prep Batch: 174663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	ND		3720	3710		ug/Kg	☼	100	55 - 125
2-Chlorophenol	ND		3720	3310		ug/Kg	☼	89	38 - 120

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-57320-2 MS

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: TN Composite

Prep Type: Total/NA

Prep Batch: 174663

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
4-Chloro-3-methylphenol	ND		3720	3590		ug/Kg	☼	97	49 - 125
4-Nitrophenol	ND		7440	7650		ug/Kg	☼	103	43 - 137
Acenaphthene	51	J	3720	3590		ug/Kg	☼	95	53 - 120
Atrazine	ND		3720	3340		ug/Kg	☼	90	60 - 164
Bis(2-ethylhexyl) phthalate	ND		3720	3490		ug/Kg	☼	94	61 - 133
Fluorene	55	J	3720	3600		ug/Kg	☼	95	63 - 126
Hexachloroethane	ND		3720	2990		ug/Kg	☼	80	41 - 120
N-Nitrosodi-n-propylamine	ND		3720	3350		ug/Kg	☼	90	46 - 120
Pentachlorophenol	ND		7440	7430		ug/Kg	☼	100	33 - 136
Phenol	ND		3720	3240		ug/Kg	☼	87	36 - 120
Pyrene	1200		3720	4490		ug/Kg	☼	89	51 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	107		39 - 146
2-Fluorobiphenyl	96		37 - 120
2-Fluorophenol (Surr)	88		18 - 120
Nitrobenzene-d5 (Surr)	89		34 - 132
Phenol-d5 (Surr)	92		11 - 120
p-Terphenyl-d14 (Surr)	92		65 - 153

Lab Sample ID: 480-57320-2 MSD

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: TN Composite

Prep Type: Total/NA

Prep Batch: 174663

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
2,4-Dinitrotoluene	ND		3700	3890		ug/Kg	☼	105	55 - 125	5	20
2-Chlorophenol	ND		3700	3130		ug/Kg	☼	85	38 - 120	6	25
4-Chloro-3-methylphenol	ND		3700	3840		ug/Kg	☼	104	49 - 125	7	27
4-Nitrophenol	ND		7390	8070		ug/Kg	☼	109	43 - 137	5	25
Acenaphthene	51	J	3700	3700		ug/Kg	☼	99	53 - 120	3	35
Atrazine	ND		3700	3600		ug/Kg	☼	97	60 - 164	7	20
Bis(2-ethylhexyl) phthalate	ND		3700	3550		ug/Kg	☼	96	61 - 133	2	15
Fluorene	55	J	3700	3740		ug/Kg	☼	100	63 - 126	4	15
Hexachloroethane	ND		3700	2990		ug/Kg	☼	81	41 - 120	0	46
N-Nitrosodi-n-propylamine	ND		3700	3230		ug/Kg	☼	87	46 - 120	4	31
Pentachlorophenol	ND		7390	7510		ug/Kg	☼	102	33 - 136	1	35
Phenol	ND		3700	3050		ug/Kg	☼	83	36 - 120	6	35
Pyrene	1200		3700	4500		ug/Kg	☼	90	51 - 133	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	104		39 - 146
2-Fluorobiphenyl	98		37 - 120
2-Fluorophenol (Surr)	86		18 - 120
Nitrobenzene-d5 (Surr)	89		34 - 132
Phenol-d5 (Surr)	89		11 - 120
p-Terphenyl-d14 (Surr)	92		65 - 153

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-174686/1-A
Matrix: Solid
Analysis Batch: 174716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		04/09/14 09:42	04/09/14 19:09	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	86		48 - 125				04/09/14 09:42	04/09/14 19:09	1

Lab Sample ID: LCS 480-174686/2-A
Matrix: Solid
Analysis Batch: 174716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]	49.9	43.4		mg/Kg		87	63 - 127		
Surrogate	%Recovery	LCS Qualifier	Limits						
<i>o</i> -Terphenyl	91		48 - 125						

Lab Sample ID: LCSD 480-174686/3-A
Matrix: Solid
Analysis Batch: 174716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	49.2	42.8		mg/Kg		87	63 - 127	1	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	92		48 - 125						

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-175027/1-A
Matrix: Solid
Analysis Batch: 175178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 175027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1221	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1232	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1242	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1248	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1254	ND		0.21	0.096	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1260	ND		0.21	0.096	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1262	ND		0.21	0.096	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1268	ND		0.21	0.096	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	104		46 - 175				04/10/14 15:16	04/11/14 19:01	1
DCB Decachlorobiphenyl	115		47 - 176				04/10/14 15:16	04/11/14 19:01	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-175027/2-A

Matrix: Solid

Analysis Batch: 175178

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 175027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.27	2.93		mg/Kg		129	51 - 185
PCB-1260	2.27	3.20		mg/Kg		141	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	114		46 - 175
DCB Decachlorobiphenyl	130		47 - 176

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-174368/1-A

Matrix: Solid

Analysis Batch: 176107

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.2	0.43	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Barium	ND	^	0.54	0.12	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Cadmium	ND		0.22	0.032	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Chromium	ND		0.54	0.22	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Lead	ND		1.1	0.26	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Selenium	ND		4.3	0.43	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Silver	ND		0.65	0.22	mg/Kg		04/08/14 13:25	04/15/14 11:29	1

Lab Sample ID: LCSSRM 480-174368/2-A

Matrix: Solid

Analysis Batch: 176107

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 174368

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	88.5	83.1		mg/Kg		93.8	69.0 - 131.2
Barium	210	184	^	mg/Kg		87.4	73.3 - 126.7
Cadmium	143	129		mg/Kg		90.2	72.7 - 127.3
Chromium	86.9	76.6		mg/Kg		88.1	69.1 - 131.3
Lead	98.0	95.4		mg/Kg		97.3	70.8 - 128.7
Selenium	127	120		mg/Kg		94.7	66.6 - 133.9
Silver	66.3	61.9		mg/Kg		93.4	67.1 - 132.9

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-174619/1-A
Matrix: Solid
Analysis Batch: 174789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.018	0.0074	mg/Kg		04/09/14 12:00	04/09/14 15:17	1

Lab Sample ID: LCSSRM 480-174619/2-A
Matrix: Solid
Analysis Batch: 174789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174619

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	3.77	3.44		mg/Kg		91.2	50.9 - 149.1

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-175100/1
Matrix: Solid
Analysis Batch: 175100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	81.00		Degrees F		100	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-174856/1-A
Matrix: Solid
Analysis Batch: 174966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	0.0030	mg/Kg		04/10/14 00:30	04/10/14 10:26	1

Lab Sample ID: LCS 480-174856/2-A
Matrix: Solid
Analysis Batch: 174966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	203		mg/Kg		20	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-174864/1-A
Matrix: Solid
Analysis Batch: 174962

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10	0.57	mg/Kg		04/10/14 07:33	04/10/14 08:20	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method: 9034 - Sulfide, Reactive (Continued)

Lab Sample ID: LCS 480-174864/2-A
Matrix: Solid
Analysis Batch: 174962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	1000	822		mg/Kg		82	10 - 100

Method: 9045C - pH

Lab Sample ID: LCS 480-174815/1
Matrix: Solid
Analysis Batch: 174815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.020		SU		100	99 - 101

Lab Sample ID: 480-57320-2 DU
Matrix: Solid
Analysis Batch: 174815

Client Sample ID: TN Composite
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	4.93		4.970		SU		0.8	5

Method: 9095B - Paint Filter

Lab Sample ID: 480-57320-2 DU
Matrix: Solid
Analysis Batch: 174566

Client Sample ID: TN Composite
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	passed		passed		mL/100g		NC	

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

GC/MS VOA

Prep Batch: 174119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	5035A	

Analysis Batch: 174450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	8260C	174119
LCS 480-174450/5	Lab Control Sample	Total/NA	Solid	8260C	
MB 480-174450/7	Method Blank	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 174663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	3550C	
480-57320-2 MS	TN Composite	Total/NA	Solid	3550C	
480-57320-2 MSD	TN Composite	Total/NA	Solid	3550C	
LCS 480-174663/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-174663/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 175108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	8270D	174663
480-57320-2 MS	TN Composite	Total/NA	Solid	8270D	174663
480-57320-2 MSD	TN Composite	Total/NA	Solid	8270D	174663
LCS 480-174663/2-A	Lab Control Sample	Total/NA	Solid	8270D	174663
MB 480-174663/1-A	Method Blank	Total/NA	Solid	8270D	174663

GC Semi VOA

Prep Batch: 174686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	3550C	
LCS 480-174686/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-174686/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 480-174686/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 174716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	8015D	174686
LCS 480-174686/2-A	Lab Control Sample	Total/NA	Solid	8015D	174686
LCSD 480-174686/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	174686
MB 480-174686/1-A	Method Blank	Total/NA	Solid	8015D	174686

Prep Batch: 175027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	3550C	
LCS 480-175027/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-175027/1-A	Method Blank	Total/NA	Solid	3550C	

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

GC Semi VOA (Continued)

Analysis Batch: 175178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	8082A	175027
LCS 480-175027/2-A	Lab Control Sample	Total/NA	Solid	8082A	175027
MB 480-175027/1-A	Method Blank	Total/NA	Solid	8082A	175027

Metals

Prep Batch: 174368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	3050B	
LCSSRM 480-174368/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-174368/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 174619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	7471B	
LCSSRM 480-174619/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-174619/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 174789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	7471B	174619
LCSSRM 480-174619/2-A	Lab Control Sample	Total/NA	Solid	7471B	174619
MB 480-174619/1-A	Method Blank	Total/NA	Solid	7471B	174619

Analysis Batch: 176107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	6010C	174368
LCSSRM 480-174368/2-A	Lab Control Sample	Total/NA	Solid	6010C	174368
MB 480-174368/1-A	Method Blank	Total/NA	Solid	6010C	174368

General Chemistry

Analysis Batch: 174093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	Moisture	

Analysis Batch: 174566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	9095B	
480-57320-2 DU	TN Composite	Total/NA	Solid	9095B	

Analysis Batch: 174815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	9045C	
480-57320-2 DU	TN Composite	Total/NA	Solid	9045C	
LCS 480-174815/1	Lab Control Sample	Total/NA	Solid	9045C	

Prep Batch: 174856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	7.3.3	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

General Chemistry (Continued)

Prep Batch: 174856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-174856/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
MB 480-174856/1-A	Method Blank	Total/NA	Solid	7.3.3	

Prep Batch: 174864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	7.3.4	
LCS 480-174864/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
MB 480-174864/1-A	Method Blank	Total/NA	Solid	7.3.4	

Analysis Batch: 174962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	9034	174864
LCS 480-174864/2-A	Lab Control Sample	Total/NA	Solid	9034	174864
MB 480-174864/1-A	Method Blank	Total/NA	Solid	9034	174864

Analysis Batch: 174966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	9012	174856
LCS 480-174856/2-A	Lab Control Sample	Total/NA	Solid	9012	174856
MB 480-174856/1-A	Method Blank	Total/NA	Solid	9012	174856

Analysis Batch: 175100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-2	TN Composite	Total/NA	Solid	1010	
LCS 480-175100/1	Lab Control Sample	Total/NA	Solid	1010	

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Client Sample ID: TN Composite

Lab Sample ID: 480-57320-2

Date Collected: 04/02/14 11:55

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			174119	04/07/14 01:35	CDC	TAL BUF
Total/NA	Analysis	8260C		1	174450	04/08/14 20:00	CDC	TAL BUF
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175108	04/11/14 11:30	HTL	TAL BUF
Total/NA	Prep	3550C			174686	04/09/14 09:42	CAM	TAL BUF
Total/NA	Analysis	8015D		1	174716	04/09/14 21:24	DLE	TAL BUF
Total/NA	Prep	3550C			175027	04/10/14 15:16	JRL	TAL BUF
Total/NA	Analysis	8082A		1	175178	04/11/14 21:58	JMM	TAL BUF
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:02	AMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:28	LRK	TAL BUF
Total/NA	Analysis	1010		1	175100	04/11/14 15:15	JMB	TAL BUF
Total/NA	Prep	7.3.3			174856	04/10/14 00:30	LAW	TAL BUF
Total/NA	Analysis	9012		1	174966	04/10/14 10:26	LAW	TAL BUF
Total/NA	Prep	7.3.4			174864	04/10/14 07:33	LAW	TAL BUF
Total/NA	Analysis	9034		1	174962	04/10/14 08:20	LAW	TAL BUF
Total/NA	Analysis	9045C		1	174815	04/09/14 17:15	EGS	TAL BUF
Total/NA	Analysis	9095B		1	174566	04/08/14 18:35	KJ1	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Rhode Island	State Program	1	LAO00328	12-30-14

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Method Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045C	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57320-2	TN Composite	Solid	04/02/14 11:55	04/05/14 02:00

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TestAmerica

Temperature on Receipt _____

Drinking Water? Yes No

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

TAL-4124 (1007)

Client: **Resane Control Associates**
 Address: **174 Broadway**
 City: **Pawtucket** State: **RI** Zip Code: **02860**
 Project Name and Location (State): **731A Pawtucket, RI**
 Contract/Purchase Order/Quote No. _____

Project Manager: **Danielle Giesinger**
 Telephone Number (Area Code/Fax Number): **(401) 788-6860**
 Date: **4/3/14**
 Lab Number: _____
 Chain of Custody Number: **261764**
 Page **2** of **3**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives						Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH	
S-111	4/2/14	1403			X										
S-112	4/3/14	1404			X										
TP-2 (2'-2.5')	4/3/14	0915			X										
TP-2 (4'-8')		0920			X										
TP-3 (5'-5.5')		1000			X										
TP-3 (2'-2.5')		1005			X										
TP-4 (1.5'-2')		1125			X										
TP-4 (3')		1130			X										
TP-5 (1.5'-2.5')		1150			X										
TP-5 (4'-4.5')		1155			X										
TP-6 (1.5'-2')		1211			X										
TP-6 (3.5')		1220			X										

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify): _____

1. Relinquished By: **Jerry Deah** Date: **4/4/14** Time: **12:15**
 2. Relinquished By: **Jerry Deah** Date: **4/4/14** Time: **15:50**
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **Jerry Deah** Date: **4-4-14** Time: **12:15**
 2. Received By: **Jerry Deah** Date: **4-5-14** Time: **2:20**
 3. Received By: _____ Date: _____ Time: _____

Comments: _____

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



4.8 ft

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)
 Client: **Resource Control Associates**
 Address: **474 Broadway**
 City: **Pawtucket** State: **RI** Zip Code: **02860**
 Project Name and Location (State): **7131A Pawtucket, RI**
 Contract/Purchase Order/Quote No.: _____
 Project Manager: **Danville Gekkingen**
 Telephone Number (Area Code)/Fax Number: **(401) 786-6860**
 Site Contact: _____ Lab Contact: _____
 Carrier/Maybill Number: _____
 Date: **4/3/14**
 Chain of Custody Number: **261765**
 Page **3** of **3**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH	
TP-7 (2.5')		1255				X									
TP-8 (1-2')		1300				X									
TP-8 (6')		1305				X									
TP-9 (5.5-6')		1400				X									
Disposal		1420				X									

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Other _____

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By: **Jerry Zah** Date: **4/4/14** Time: **1505**
 2. Relinquished By: **Jerry Zah** Date: **4-4-14** Time: **1505**
 3. Relinquished By: **Jerry Zah** Date: **4-5-14** Time: **0200**

QC Requirements (Specify): _____

1. Received By: **Jerry Zah** Date: **4-4-14** Time: **1245**
 2. Received By: **Jerry Zah** Date: **4-5-14** Time: **0200**
 3. Received By: _____ Date: _____ Time: _____

Comments: **4. f #1**



Login Sample Receipt Checklist

Client: Resource Control Associates, Inc.

Job Number: 480-57320-2

Login Number: 57320

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No dates listed for samples 25-29. Taken from bottles
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-57320-1

Client Project/Site: 7131A Rhode Island

For:

Resource Control Associates, Inc.

474 Broadway

Pawtucket, Rhode Island 02860

Attn: Ms. Danielle Eastman-Getsinger



Authorized for release by:

4/16/2014 4:25:01 PM

Steve Hartmann, Service Center Manager

(413)572-4000

steve.hartmann@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	12
Surrogate Summary	25
QC Sample Results	26
QC Association Summary	32
Lab Chronicle	37
Certification Summary	44
Method Summary	45
Sample Summary	46
Chain of Custody	47
Receipt Checklists	50

Definitions/Glossary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Job ID: 480-57320-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-57320-1

Comments

No additional comments.

Receipt

The samples were received on 4/5/2014 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS VOA (8260)

Method(s) 8260C: The LCS recovery was above TestAmerica's internal laboratory QC limits for 2-Butanone. This analyte is not a reported spiking compound; therefore the recovery is being noted for advisory purposes only. All other quality control indicators, including the continuing calibration verification, were within method prescribed limits for this analyte.

No other analytical or quality issues were noted.

GC/MS Semi VOA (8270)

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix : TP-3 (2-2.5') (480-57320-18), TP-8 (1-2') (480-57320-26), TP-3 (5-5.5') (480-57320-17). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA (8015)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals (6010, 7471)

Method(s) 6010C: The low level continuing calibration verifications (CCVL 480-176107/16 and CCVL 480-176107/25, 480-176107/34) for analytical batch 480-176107 contained total barium above the quality control limit. All reported samples associated with these CCVLs were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVLs; therefore, re-analysis of samples (480-57320-1 MS),(480-57320-1 MSD), S-101 (480-57320-3), S-102 (480-57320-4), (LCSSRM 480-174368/2-), (MB 480-174368/1-A), TP-1 (2.5-3.5) (480-57320-1) was not required.

Method(s) 6010C: The following sample was diluted for total arsenic due to the nature of the sample matrix: S-105 (480-57320-7). Elevated reporting limits (RLs) are provided.

Method(s) 6010C: The following sample was diluted to bring the concentration of target analyte total chromium within the linear range: TP-3 (5-5.5') (480-57320-17). Elevated reporting limits (RLs) are provided.

Method(s) 6010C: The following sample was diluted due to the presence of chromium which interferes with total arsenic: TP-3 (5-5.5') (480-57320-17). Elevated reporting limits (RLs) are provided.

Method(s) 6010C: The following sample was diluted due to the presence of copper which interferes with total lead: TP-3 (5-5.5') (480-57320-17). Elevated reporting limits (RLs) are provided.

Method(s) 7471A, 7471B: The following samples were diluted to bring the concentration of the target analyte, total mercury, within the calibration range: TP-3 (5-5.5') (480-57320-17), TP-4 (1.5-2') (480-57320-19). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep

Method(s) 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: TP-3 (2-2.5') (480-57320-18), TP-8 (1-2') (480-57320-26). The reporting limits (RLs) are elevated proportionately.

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Job ID: 480-57320-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 3550C: The following samples: S-102 (480-57320-4), TP-2 (4.8') (480-57320-16), TP-3 (5-5.5') (480-57320-17), TP-8 (6') (480-57320-27) were decanted prior to preparation.

No other analytical or quality issues were noted.

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Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-1 (2.5-3.5)

Lab Sample ID: 480-57320-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.6	J	1.9	0.37	mg/Kg	1		6010C	Total/NA
Barium	8.4	^	0.47	0.10	mg/Kg	1		6010C	Total/NA
Cadmium	0.035	J	0.19	0.028	mg/Kg	1		6010C	Total/NA
Chromium	2.9		0.47	0.19	mg/Kg	1		6010C	Total/NA
Lead	15		0.94	0.22	mg/Kg	1		6010C	Total/NA
Hg	0.014	J	0.019	0.0078	mg/Kg	1		7471B	Total/NA

Client Sample ID: S-101

Lab Sample ID: 480-57320-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	6.4	J	200	3.5	ug/Kg	1	☒	8270D	Total/NA
Chrysene	2.2	J	200	2.0	ug/Kg	1	☒	8270D	Total/NA
Diesel Range Organics [C10-C28]	7.4	J	19	5.8	mg/Kg	1	☒	8015D	Total/NA
Arsenic	2.3		2.1	0.42	mg/Kg	1		6010C	Total/NA
Barium	13	^	0.52	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.033	J	0.21	0.031	mg/Kg	1		6010C	Total/NA
Chromium	1.6		0.52	0.21	mg/Kg	1		6010C	Total/NA
Lead	11		1.0	0.25	mg/Kg	1		6010C	Total/NA
Hg	0.026		0.019	0.0075	mg/Kg	1		7471B	Total/NA

Client Sample ID: S-102

Lab Sample ID: 480-57320-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	22		22	6.6	mg/Kg	1	☒	8015D	Total/NA
Arsenic	5.9		2.1	0.42	mg/Kg	1		6010C	Total/NA
Barium	12	^	0.53	0.12	mg/Kg	1		6010C	Total/NA
Chromium	1.0		0.53	0.21	mg/Kg	1		6010C	Total/NA
Lead	34		1.1	0.25	mg/Kg	1		6010C	Total/NA
Hg	0.12		0.018	0.0074	mg/Kg	1		7471B	Total/NA

Client Sample ID: S-103

Lab Sample ID: 480-57320-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.2		2.1	0.41	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-104

Lab Sample ID: 480-57320-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7	J	2.0	0.40	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-105

Lab Sample ID: 480-57320-7

No Detections.

Client Sample ID: S-106

Lab Sample ID: 480-57320-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.2		2.0	0.39	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-107

Lab Sample ID: 480-57320-9

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: S-107 (Continued)

Lab Sample ID: 480-57320-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		2.0	0.40	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-108

Lab Sample ID: 480-57320-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		1.9	0.38	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-109

Lab Sample ID: 480-57320-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		2.1	0.41	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-110

Lab Sample ID: 480-57320-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		2.0	0.40	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-111

Lab Sample ID: 480-57320-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.9		2.1	0.43	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-112

Lab Sample ID: 480-57320-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		2.0	0.40	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-2 (2-2.5')

Lab Sample ID: 480-57320-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	7.8	J	180	4.6	ug/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	92	J	180	3.1	ug/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	65	J	180	4.3	ug/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	100	J	180	3.5	ug/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	34	J	180	2.1	ug/Kg	1	*	8270D	Total/NA
Chrysene	120	J	180	1.8	ug/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	16	J	180	2.1	ug/Kg	1	*	8270D	Total/NA
Fluoranthene	170	J	180	2.6	ug/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	36	J	180	4.9	ug/Kg	1	*	8270D	Total/NA
Phenanthrene	27	J	180	3.8	ug/Kg	1	*	8270D	Total/NA
Pyrene	130	J	180	1.2	ug/Kg	1	*	8270D	Total/NA
Arsenic	0.45	J	2.0	0.40	mg/Kg	1		6010C	Total/NA
Barium	6.6		0.49	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.27		0.20	0.030	mg/Kg	1		6010C	Total/NA
Chromium	350		0.49	0.20	mg/Kg	1		6010C	Total/NA
Lead	4.8		0.99	0.24	mg/Kg	1		6010C	Total/NA
Hg	0.11		0.018	0.0074	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-2 (4.8')

Lab Sample ID: 480-57320-16

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-2 (4.8') (Continued)

Lab Sample ID: 480-57320-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	16	J	220	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	9.7	J	220	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	17	J	220	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	14	J	220	2.2	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	29	J	220	3.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	7.3	J	220	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	21	J	220	1.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	0.82	J	1.8	0.37	mg/Kg	1		6010C	Total/NA
Barium	3.9		0.46	0.10	mg/Kg	1		6010C	Total/NA
Cadmium	0.24		0.18	0.028	mg/Kg	1		6010C	Total/NA
Chromium	3.2		0.46	0.18	mg/Kg	1		6010C	Total/NA
Lead	1.1		0.92	0.22	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-3 (5-5.5')

Lab Sample ID: 480-57320-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	550	J	3300	39	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1200	J	3300	85	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	2400	J	3300	57	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1900	J	3300	80	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2600	J	3300	64	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	770	J	3300	40	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	240	J	3300	36	ug/Kg	5	☼	8270D	Total/NA
Chrysene	2300	J	3300	33	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	280	J	3300	39	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	5100		3300	48	ug/Kg	5	☼	8270D	Total/NA
Fluorene	460	J	3300	76	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	730	J	3300	92	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	400	J	3300	55	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	4200		3300	69	ug/Kg	5	☼	8270D	Total/NA
Pyrene	3700		3300	21	ug/Kg	5	☼	8270D	Total/NA
Arsenic	32		19	3.9	mg/Kg	10		6010C	Total/NA
Barium	54		0.48	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	2.5		0.19	0.029	mg/Kg	1		6010C	Total/NA
Chromium	9800		4.8	1.9	mg/Kg	10		6010C	Total/NA
Lead	54		9.7	2.3	mg/Kg	10		6010C	Total/NA
Selenium	1.5	J	3.9	0.39	mg/Kg	1		6010C	Total/NA
Silver	0.64		0.58	0.19	mg/Kg	1		6010C	Total/NA
Hg	3.1		0.093	0.038	mg/Kg	5		7471B	Total/NA

Client Sample ID: TP-3 (2-2.5')

Lab Sample ID: 480-57320-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	440000	J	870000	10000	ug/Kg	500	☼	8270D	Total/NA
Anthracene	1100000		870000	22000	ug/Kg	500	☼	8270D	Total/NA
Benzo[a]anthracene	1800000		870000	15000	ug/Kg	500	☼	8270D	Total/NA
Benzo[a]pyrene	1600000		870000	21000	ug/Kg	500	☼	8270D	Total/NA
Benzo[b]fluoranthene	2200000		870000	17000	ug/Kg	500	☼	8270D	Total/NA
Benzo[g,h,i]perylene	410000	J	870000	10000	ug/Kg	500	☼	8270D	Total/NA
Benzo[k]fluoranthene	660000	J	870000	9500	ug/Kg	500	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-3 (2-2.5') (Continued)

Lab Sample ID: 480-57320-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	1900000		870000	8600	ug/Kg	500	☼	8270D	Total/NA
Dibenz(a,h)anthracene	170000	J	870000	10000	ug/Kg	500	☼	8270D	Total/NA
Fluoranthene	4700000		870000	13000	ug/Kg	500	☼	8270D	Total/NA
Fluorene	420000	J	870000	20000	ug/Kg	500	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	420000	J	870000	24000	ug/Kg	500	☼	8270D	Total/NA
Naphthalene	360000	J	870000	14000	ug/Kg	500	☼	8270D	Total/NA
Phenanthrene	4300000		870000	18000	ug/Kg	500	☼	8270D	Total/NA
Pyrene	3000000		870000	5600	ug/Kg	500	☼	8270D	Total/NA
Arsenic	18		2.1	0.42	mg/Kg	1		6010C	Total/NA
Barium	710		0.53	0.12	mg/Kg	1		6010C	Total/NA
Cadmium	0.98		0.21	0.032	mg/Kg	1		6010C	Total/NA
Chromium	12		0.53	0.21	mg/Kg	1		6010C	Total/NA
Lead	210		1.1	0.25	mg/Kg	1		6010C	Total/NA
Selenium	2.5	J	4.2	0.42	mg/Kg	1		6010C	Total/NA
Silver	0.40	J	0.63	0.21	mg/Kg	1		6010C	Total/NA
Hg	0.19		0.020	0.0081	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-4 (1.5-2')

Lab Sample ID: 480-57320-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	14	J	190	2.3	ug/Kg	1	☼	8270D	Total/NA
Anthracene	22	J	190	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	110	J	190	3.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	110	J	190	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	140	J	190	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	43	J	190	2.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	14	J	190	2.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	160	J	190	1.9	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	17	J	190	2.3	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	230		190	2.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	9.6	J	190	4.4	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	35	J	190	5.3	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	30	J	190	3.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	150	J	190	4.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	200		190	1.2	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.5		2.1	0.42	mg/Kg	1		6010C	Total/NA
Barium	16		0.53	0.12	mg/Kg	1		6010C	Total/NA
Cadmium	0.050	J	0.21	0.032	mg/Kg	1		6010C	Total/NA
Chromium	7.8		0.53	0.21	mg/Kg	1		6010C	Total/NA
Lead	14		1.1	0.25	mg/Kg	1		6010C	Total/NA
Hg	19		1.9	0.79	mg/Kg	100		7471B	Total/NA

Client Sample ID: TP-5 (4-4.5')

Lab Sample ID: 480-57320-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	4.3	J	210	2.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	7.1	J	210	3.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	10	J	210	3.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	21	J	210	3.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	9.0	J	210	4.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-5 (4-4.5') (Continued)

Lab Sample ID: 480-57320-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	4.9	J	210	1.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.8	J	1.9	0.38	mg/Kg	1		6010C	Total/NA
Barium	5.9		0.48	0.11	mg/Kg	1		6010C	Total/NA
Chromium	3.4		0.48	0.19	mg/Kg	1		6010C	Total/NA
Lead	1.8		0.96	0.23	mg/Kg	1		6010C	Total/NA
Hg	0.071		0.019	0.0076	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-7 (2.5')

Lab Sample ID: 480-57320-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.0		1.8	0.37	mg/Kg	1		6010C	Total/NA
Barium	22		0.46	0.10	mg/Kg	1		6010C	Total/NA
Chromium	1.9		0.46	0.18	mg/Kg	1		6010C	Total/NA
Lead	130		0.92	0.22	mg/Kg	1		6010C	Total/NA
Hg	0.16		0.020	0.0083	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-8 (1-2')

Lab Sample ID: 480-57320-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	520000	J	1100000	12000	ug/Kg	500	☼	8270D	Total/NA
Anthracene	1100000		1100000	27000	ug/Kg	500	☼	8270D	Total/NA
Benzo[a]anthracene	2300000		1100000	18000	ug/Kg	500	☼	8270D	Total/NA
Benzo[a]pyrene	1900000		1100000	25000	ug/Kg	500	☼	8270D	Total/NA
Benzo[b]fluoranthene	2300000		1100000	20000	ug/Kg	500	☼	8270D	Total/NA
Benzo[g,h,i]perylene	590000	J	1100000	13000	ug/Kg	500	☼	8270D	Total/NA
Benzo[k]fluoranthene	1100000		1100000	12000	ug/Kg	500	☼	8270D	Total/NA
Chrysene	2400000		1100000	11000	ug/Kg	500	☼	8270D	Total/NA
Dibenz(a,h)anthracene	180000	J	1100000	12000	ug/Kg	500	☼	8270D	Total/NA
Fluoranthene	5400000		1100000	15000	ug/Kg	500	☼	8270D	Total/NA
Fluorene	510000	J	1100000	24000	ug/Kg	500	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	550000	J	1100000	29000	ug/Kg	500	☼	8270D	Total/NA
Naphthalene	370000	J	1100000	18000	ug/Kg	500	☼	8270D	Total/NA
Phenanthrene	5100000		1100000	22000	ug/Kg	500	☼	8270D	Total/NA
Pyrene	3900000		1100000	6800	ug/Kg	500	☼	8270D	Total/NA
Arsenic	20		2.1	0.41	mg/Kg	1		6010C	Total/NA
Barium	360		0.52	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	1.1		0.21	0.031	mg/Kg	1		6010C	Total/NA
Chromium	21		0.52	0.21	mg/Kg	1		6010C	Total/NA
Lead	350		1.0	0.25	mg/Kg	1		6010C	Total/NA
Selenium	1.5	J	4.1	0.41	mg/Kg	1		6010C	Total/NA
Hg	0.20		0.019	0.0079	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-8 (6')

Lab Sample ID: 480-57320-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	210	J	220	2.6	ug/Kg	1	☼	8270D	Total/NA
Anthracene	250		220	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	530		220	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	440		220	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	570		220	4.2	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-8 (6') (Continued)

Lab Sample ID: 480-57320-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	170	J	220	2.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	250		220	2.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	530		220	2.2	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	45	J	220	2.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1100		220	3.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	140	J	220	5.0	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	160	J	220	6.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	460		220	3.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1100		220	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	860		220	1.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	0.60	J	2.1	0.41	mg/Kg	1		6010C	Total/NA
Barium	6.6		0.51	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.051	J	0.21	0.031	mg/Kg	1		6010C	Total/NA
Chromium	26		0.51	0.21	mg/Kg	1		6010C	Total/NA
Lead	1.6		1.0	0.25	mg/Kg	1		6010C	Total/NA
Hg	0.097		0.019	0.0075	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-9 (5.5-6')

Lab Sample ID: 480-57320-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.2	J	28	4.7	ug/Kg	1	☼	8260C	Total/NA
Arsenic	0.98	J	2.0	0.40	mg/Kg	1		6010C	Total/NA
Barium	6.6		0.50	0.11	mg/Kg	1		6010C	Total/NA
Chromium	1.9		0.50	0.20	mg/Kg	1		6010C	Total/NA
Lead	1.3		0.99	0.24	mg/Kg	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-1 (2.5-3.5)

Lab Sample ID: 480-57320-1

Date Collected: 04/02/14 11:50

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6	J	1.9	0.37	mg/Kg		04/08/14 13:25	04/15/14 11:35	1
Barium	8.4	^	0.47	0.10	mg/Kg		04/08/14 13:25	04/15/14 11:35	1
Cadmium	0.035	J	0.19	0.028	mg/Kg		04/08/14 13:25	04/15/14 11:35	1
Chromium	2.9		0.47	0.19	mg/Kg		04/08/14 13:25	04/15/14 11:35	1
Lead	15		0.94	0.22	mg/Kg		04/08/14 13:25	04/15/14 11:35	1
Selenium	ND		3.7	0.37	mg/Kg		04/08/14 13:25	04/15/14 11:35	1
Silver	ND		0.56	0.19	mg/Kg		04/08/14 13:25	04/15/14 11:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.014	J	0.019	0.0078	mg/Kg		04/09/14 12:00	04/09/14 15:20	1

Client Sample ID: S-101

Lab Sample ID: 480-57320-3

Date Collected: 04/02/14 12:05

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		200	2.4	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Acenaphthylene	ND		200	1.6	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Anthracene	ND		200	5.2	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Benzo[a]anthracene	6.4	J	200	3.5	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Benzo[a]pyrene	ND		200	4.9	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Benzo[b]fluoranthene	ND		200	3.9	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Benzo[g,h,i]perylene	ND		200	2.4	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Benzo[k]fluoranthene	ND		200	2.2	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Chrysene	2.2	J	200	2.0	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Dibenz(a,h)anthracene	ND		200	2.4	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Fluoranthene	ND		200	2.9	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Fluorene	ND		200	4.6	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Indeno[1,2,3-cd]pyrene	ND		200	5.6	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Naphthalene	ND		200	3.4	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Phenanthrene	ND		200	4.2	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1
Pyrene	ND		200	1.3	ug/Kg	☼	04/09/14 09:17	04/09/14 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		37 - 120	04/09/14 09:17	04/09/14 19:54	1
Nitrobenzene-d5 (Surr)	78		34 - 132	04/09/14 09:17	04/09/14 19:54	1
p-Terphenyl-d14 (Surr)	103		65 - 153	04/09/14 09:17	04/09/14 19:54	1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7.4	J	19	5.8	mg/Kg	☼	04/09/14 09:42	04/09/14 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		48 - 125	04/09/14 09:42	04/09/14 21:58	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		2.1	0.42	mg/Kg		04/08/14 13:25	04/15/14 12:05	1
Barium	13	^	0.52	0.11	mg/Kg		04/08/14 13:25	04/15/14 12:05	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: S-101

Lab Sample ID: 480-57320-3

Date Collected: 04/02/14 12:05

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.033	J	0.21	0.031	mg/Kg		04/08/14 13:25	04/15/14 12:05	1
Chromium	1.6		0.52	0.21	mg/Kg		04/08/14 13:25	04/15/14 12:05	1
Lead	11		1.0	0.25	mg/Kg		04/08/14 13:25	04/15/14 12:05	1
Selenium	ND		4.2	0.42	mg/Kg		04/08/14 13:25	04/15/14 12:05	1
Silver	ND		0.62	0.21	mg/Kg		04/08/14 13:25	04/15/14 12:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.026		0.019	0.0075	mg/Kg		04/09/14 12:00	04/09/14 15:33	1

Client Sample ID: S-102

Lab Sample ID: 480-57320-4

Date Collected: 04/02/14 12:07

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 74.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		220	2.6	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Acenaphthylene	ND		220	1.8	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Anthracene	ND		220	5.7	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Benzo[a]anthracene	ND		220	3.9	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Benzo[a]pyrene	ND		220	5.4	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Benzo[b]fluoranthene	ND		220	4.3	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Benzo[g,h,i]perylene	ND		220	2.7	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Benzo[k]fluoranthene	ND		220	2.5	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Chrysene	ND		220	2.2	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Dibenz(a,h)anthracene	ND		220	2.6	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Fluoranthene	ND		220	3.2	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Fluorene	ND		220	5.1	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Indeno[1,2,3-cd]pyrene	ND		220	6.2	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Naphthalene	ND		220	3.7	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Phenanthrene	ND		220	4.7	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1
Pyrene	ND		220	1.4	ug/Kg	☼	04/09/14 09:17	04/09/14 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		37 - 120	04/09/14 09:17	04/09/14 20:19	1
Nitrobenzene-d5 (Surr)	78		34 - 132	04/09/14 09:17	04/09/14 20:19	1
p-Terphenyl-d14 (Surr)	98		65 - 153	04/09/14 09:17	04/09/14 20:19	1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22		22	6.6	mg/Kg	☼	04/09/14 09:42	04/09/14 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		48 - 125	04/09/14 09:42	04/09/14 22:32	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		2.1	0.42	mg/Kg		04/08/14 13:25	04/15/14 12:08	1
Barium	12	^	0.53	0.12	mg/Kg		04/08/14 13:25	04/15/14 12:08	1
Cadmium	ND		0.21	0.032	mg/Kg		04/08/14 13:25	04/15/14 12:08	1
Chromium	1.0		0.53	0.21	mg/Kg		04/08/14 13:25	04/15/14 12:08	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: S-102

Lab Sample ID: 480-57320-4

Date Collected: 04/02/14 12:07

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	34		1.1	0.25	mg/Kg		04/08/14 13:25	04/15/14 12:08	1
Selenium	ND		4.2	0.42	mg/Kg		04/08/14 13:25	04/15/14 12:08	1
Silver	ND		0.64	0.21	mg/Kg		04/08/14 13:25	04/15/14 12:08	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.12		0.018	0.0074	mg/Kg		04/09/14 12:00	04/09/14 15:35	1

Client Sample ID: S-103

Lab Sample ID: 480-57320-5

Date Collected: 04/02/14 12:21

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		2.1	0.41	mg/Kg		04/08/14 13:25	04/15/14 12:10	1

Client Sample ID: S-104

Lab Sample ID: 480-57320-6

Date Collected: 04/02/14 12:22

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7	J	2.0	0.40	mg/Kg		04/08/14 13:25	04/15/14 12:13	1

Client Sample ID: S-105

Lab Sample ID: 480-57320-7

Date Collected: 04/02/14 12:23

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		11	2.1	mg/Kg		04/08/14 13:25	04/16/14 13:13	5

Client Sample ID: S-106

Lab Sample ID: 480-57320-8

Date Collected: 04/02/14 12:24

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		2.0	0.39	mg/Kg		04/08/14 13:25	04/15/14 12:33	1

Client Sample ID: S-107

Lab Sample ID: 480-57320-9

Date Collected: 04/02/14 12:25

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		2.0	0.40	mg/Kg		04/08/14 13:25	04/15/14 12:35	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: S-108

Date Collected: 04/02/14 14:00

Date Received: 04/05/14 02:00

Lab Sample ID: 480-57320-10

Matrix: Solid

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		1.9	0.38	mg/Kg		04/08/14 13:25	04/15/14 12:38	1

Client Sample ID: S-109

Date Collected: 04/02/14 14:01

Date Received: 04/05/14 02:00

Lab Sample ID: 480-57320-11

Matrix: Solid

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		2.1	0.41	mg/Kg		04/08/14 13:25	04/15/14 12:41	1

Client Sample ID: S-110

Date Collected: 04/02/14 14:02

Date Received: 04/05/14 02:00

Lab Sample ID: 480-57320-12

Matrix: Solid

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		2.0	0.40	mg/Kg		04/08/14 13:25	04/15/14 12:44	1

Client Sample ID: S-111

Date Collected: 04/02/14 14:03

Date Received: 04/05/14 02:00

Lab Sample ID: 480-57320-13

Matrix: Solid

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		2.1	0.43	mg/Kg		04/08/14 13:25	04/15/14 12:46	1

Client Sample ID: S-112

Date Collected: 04/02/14 14:04

Date Received: 04/05/14 02:00

Lab Sample ID: 480-57320-14

Matrix: Solid

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		2.0	0.40	mg/Kg		04/08/14 13:25	04/15/14 12:49	1

Client Sample ID: TP-2 (2-2.5')

Date Collected: 04/03/14 09:15

Date Received: 04/05/14 02:00

Lab Sample ID: 480-57320-15

Matrix: Solid

Percent Solids: 93.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		180	2.1	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Anthracene	7.8	J	180	4.6	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Benzo[a]anthracene	92	J	180	3.1	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Benzo[a]pyrene	65	J	180	4.3	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Benzo[b]fluoranthene	100	J	180	3.5	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Benzo[g,h,i]perylene	34	J	180	2.1	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Benzo[k]fluoranthene	ND		180	2.0	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Chrysene	120	J	180	1.8	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Dibenz(a,h)anthracene	16	J	180	2.1	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Fluoranthene	170	J	180	2.6	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-2 (2-2.5')

Lab Sample ID: 480-57320-15

Date Collected: 04/03/14 09:15

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 93.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		180	4.1	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Indeno[1,2,3-cd]pyrene	36	J	180	4.9	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Naphthalene	ND		180	3.0	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Phenanthrene	27	J	180	3.8	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Pyrene	130	J	180	1.2	ug/Kg	☼	04/09/14 09:17	04/09/14 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		37 - 120				04/09/14 09:17	04/09/14 20:43	1
Nitrobenzene-d5 (Surr)	74		34 - 132				04/09/14 09:17	04/09/14 20:43	1
p-Terphenyl-d14 (Surr)	100		65 - 153				04/09/14 09:17	04/09/14 20:43	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.45	J	2.0	0.40	mg/Kg		04/08/14 13:25	04/15/14 13:06	1
Barium	6.6		0.49	0.11	mg/Kg		04/08/14 13:25	04/15/14 13:06	1
Cadmium	0.27		0.20	0.030	mg/Kg		04/08/14 13:25	04/15/14 13:06	1
Chromium	350		0.49	0.20	mg/Kg		04/08/14 13:25	04/15/14 13:06	1
Lead	4.8		0.99	0.24	mg/Kg		04/08/14 13:25	04/15/14 13:06	1
Selenium	ND		4.0	0.40	mg/Kg		04/08/14 13:25	04/15/14 13:06	1
Silver	ND		0.59	0.20	mg/Kg		04/08/14 13:25	04/15/14 13:06	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.11		0.018	0.0074	mg/Kg		04/09/14 12:00	04/09/14 15:37	1

Client Sample ID: TP-2 (4.8')

Lab Sample ID: 480-57320-16

Date Collected: 04/03/14 09:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 75.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		220	2.6	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Acenaphthylene	ND		220	1.8	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Anthracene	ND		220	5.6	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Benzo[a]anthracene	16	J	220	3.8	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Benzo[a]pyrene	9.7	J	220	5.3	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Benzo[b]fluoranthene	17	J	220	4.2	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Benzo[g,h,i]perylene	ND		220	2.6	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Benzo[k]fluoranthene	ND		220	2.4	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Chrysene	14	J	220	2.2	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Dibenz(a,h)anthracene	ND		220	2.6	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Fluoranthene	29	J	220	3.2	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Fluorene	ND		220	5.0	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Indeno[1,2,3-cd]pyrene	ND		220	6.0	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Naphthalene	ND		220	3.6	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Phenanthrene	7.3	J	220	4.6	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Pyrene	21	J	220	1.4	ug/Kg	☼	04/09/14 09:17	04/09/14 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		37 - 120				04/09/14 09:17	04/09/14 21:08	1
Nitrobenzene-d5 (Surr)	78		34 - 132				04/09/14 09:17	04/09/14 21:08	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-2 (4.8')

Lab Sample ID: 480-57320-16

Date Collected: 04/03/14 09:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 75.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	101		65 - 153	04/09/14 09:17	04/09/14 21:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.82	J	1.8	0.37	mg/Kg		04/08/14 13:25	04/15/14 13:09	1
Barium	3.9		0.46	0.10	mg/Kg		04/08/14 13:25	04/15/14 13:09	1
Cadmium	0.24		0.18	0.028	mg/Kg		04/08/14 13:25	04/15/14 13:09	1
Chromium	3.2		0.46	0.18	mg/Kg		04/08/14 13:25	04/15/14 13:09	1
Lead	1.1		0.92	0.22	mg/Kg		04/08/14 13:25	04/15/14 13:09	1
Selenium	ND		3.7	0.37	mg/Kg		04/08/14 13:25	04/15/14 13:09	1
Silver	ND		0.55	0.18	mg/Kg		04/08/14 13:25	04/15/14 13:09	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.019	0.0077	mg/Kg		04/09/14 12:00	04/09/14 15:39	1

Client Sample ID: TP-3 (5-5.5')

Lab Sample ID: 480-57320-17

Date Collected: 04/03/14 10:00

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 25.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	J	3300	39	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Acenaphthylene	ND		3300	27	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Anthracene	1200	J	3300	85	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Benzo[a]anthracene	2400	J	3300	57	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Benzo[a]pyrene	1900	J	3300	80	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Benzo[b]fluoranthene	2600	J	3300	64	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Benzo[g,h,i]perylene	770	J	3300	40	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Benzo[k]fluoranthene	240	J	3300	36	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Chrysene	2300	J	3300	33	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Dibenz(a,h)anthracene	280	J	3300	39	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Fluoranthene	5100		3300	48	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Fluorene	460	J	3300	76	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Indeno[1,2,3-cd]pyrene	730	J	3300	92	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Naphthalene	400	J	3300	55	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Phenanthrene	4200		3300	69	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5
Pyrene	3700		3300	21	ug/Kg	*	04/09/14 09:17	04/09/14 21:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		37 - 120	04/09/14 09:17	04/09/14 21:33	5
Nitrobenzene-d5 (Surr)	76		34 - 132	04/09/14 09:17	04/09/14 21:33	5
p-Terphenyl-d14 (Surr)	92		65 - 153	04/09/14 09:17	04/09/14 21:33	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	32		19	3.9	mg/Kg		04/08/14 13:25	04/16/14 13:18	10
Barium	54		0.48	0.11	mg/Kg		04/08/14 13:25	04/15/14 13:11	1
Cadmium	2.5		0.19	0.029	mg/Kg		04/08/14 13:25	04/15/14 13:11	1
Chromium	9800		4.8	1.9	mg/Kg		04/08/14 13:25	04/16/14 13:18	10

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-3 (5-5.5')

Lab Sample ID: 480-57320-17

Date Collected: 04/03/14 10:00

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	54		9.7	2.3	mg/Kg		04/08/14 13:25	04/16/14 13:18	10
Selenium	1.5	J	3.9	0.39	mg/Kg		04/08/14 13:25	04/15/14 13:11	1
Silver	0.64		0.58	0.19	mg/Kg		04/08/14 13:25	04/15/14 13:11	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	3.1		0.093	0.038	mg/Kg		04/09/14 12:00	04/09/14 16:17	5

Client Sample ID: TP-3 (2-2.5')

Lab Sample ID: 480-57320-18

Date Collected: 04/03/14 10:05

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	440000	J	870000	10000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Acenaphthylene	ND		870000	7100	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Anthracene	1100000		870000	22000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Benzo[a]anthracene	1800000		870000	15000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Benzo[a]pyrene	1600000		870000	21000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Benzo[b]fluoranthene	2200000		870000	17000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Benzo[g,h,i]perylene	410000	J	870000	10000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Benzo[k]fluoranthene	660000	J	870000	9500	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Chrysene	1900000		870000	8600	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Dibenz(a,h)anthracene	170000	J	870000	10000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Fluoranthene	4700000		870000	13000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Fluorene	420000	J	870000	20000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Indeno[1,2,3-cd]pyrene	420000	J	870000	24000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Naphthalene	360000	J	870000	14000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Phenanthrene	4300000		870000	18000	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Pyrene	3000000		870000	5600	ug/Kg	*	04/09/14 09:17	04/10/14 03:18	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	X	37 - 120				04/09/14 09:17	04/10/14 03:18	500
Nitrobenzene-d5 (Surr)	0	X	34 - 132				04/09/14 09:17	04/10/14 03:18	500
p-Terphenyl-d14 (Surr)	0	X	65 - 153				04/09/14 09:17	04/10/14 03:18	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18		2.1	0.42	mg/Kg		04/08/14 13:25	04/15/14 13:14	1
Barium	710		0.53	0.12	mg/Kg		04/08/14 13:25	04/15/14 13:14	1
Cadmium	0.98		0.21	0.032	mg/Kg		04/08/14 13:25	04/15/14 13:14	1
Chromium	12		0.53	0.21	mg/Kg		04/08/14 13:25	04/15/14 13:14	1
Lead	210		1.1	0.25	mg/Kg		04/08/14 13:25	04/15/14 13:14	1
Selenium	2.5	J	4.2	0.42	mg/Kg		04/08/14 13:25	04/15/14 13:14	1
Silver	0.40	J	0.63	0.21	mg/Kg		04/08/14 13:25	04/15/14 13:14	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.19		0.020	0.0081	mg/Kg		04/09/14 12:00	04/09/14 15:42	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-4 (1.5-2')

Lab Sample ID: 480-57320-19

Date Collected: 04/03/14 11:25

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	14	J	190	2.3	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Acenaphthylene	ND		190	1.6	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Anthracene	22	J	190	4.9	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Benzo[a]anthracene	110	J	190	3.3	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Benzo[a]pyrene	110	J	190	4.6	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Benzo[b]fluoranthene	140	J	190	3.7	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Benzo[g,h,i]perylene	43	J	190	2.3	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Benzo[k]fluoranthene	14	J	190	2.1	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Chrysene	160	J	190	1.9	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Dibenz(a,h)anthracene	17	J	190	2.3	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Fluoranthene	230		190	2.8	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Fluorene	9.6	J	190	4.4	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Indeno[1,2,3-cd]pyrene	35	J	190	5.3	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Naphthalene	30	J	190	3.2	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Phenanthrene	150	J	190	4.0	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Pyrene	200		190	1.2	ug/Kg	☼	04/09/14 09:17	04/09/14 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		37 - 120				04/09/14 09:17	04/09/14 22:22	1
Nitrobenzene-d5 (Surr)	78		34 - 132				04/09/14 09:17	04/09/14 22:22	1
p-Terphenyl-d14 (Surr)	98		65 - 153				04/09/14 09:17	04/09/14 22:22	1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		19	5.7	mg/Kg	☼	04/09/14 09:42	04/09/14 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	86		48 - 125				04/09/14 09:42	04/09/14 23:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		2.1	0.42	mg/Kg		04/08/14 13:25	04/15/14 13:17	1
Barium	16		0.53	0.12	mg/Kg		04/08/14 13:25	04/15/14 13:17	1
Cadmium	0.050	J	0.21	0.032	mg/Kg		04/08/14 13:25	04/15/14 13:17	1
Chromium	7.8		0.53	0.21	mg/Kg		04/08/14 13:25	04/15/14 13:17	1
Lead	14		1.1	0.25	mg/Kg		04/08/14 13:25	04/15/14 13:17	1
Selenium	ND		4.2	0.42	mg/Kg		04/08/14 13:25	04/15/14 13:17	1
Silver	ND		0.63	0.21	mg/Kg		04/08/14 13:25	04/15/14 13:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	19		1.9	0.79	mg/Kg		04/09/14 12:00	04/09/14 16:15	100

Client Sample ID: TP-5 (4-4.5')

Lab Sample ID: 480-57320-22

Date Collected: 04/03/14 11:55

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.3	J	210	2.5	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Acenaphthylene	ND		210	1.7	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-5 (4-4.5')

Lab Sample ID: 480-57320-22

Date Collected: 04/03/14 11:55

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		210	5.3	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Benzo[a]anthracene	7.1	J	210	3.6	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Benzo[a]pyrene	ND		210	5.0	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Benzo[b]fluoranthene	ND		210	4.1	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Benzo[g,h,i]perylene	ND		210	2.5	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Benzo[k]fluoranthene	ND		210	2.3	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Chrysene	ND		210	2.1	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Dibenz(a,h)anthracene	ND		210	2.5	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Fluoranthene	10	J	210	3.0	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Fluorene	ND		210	4.8	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Indeno[1,2,3-cd]pyrene	ND		210	5.8	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Naphthalene	21	J	210	3.5	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Phenanthrene	9.0	J	210	4.4	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Pyrene	4.9	J	210	1.4	ug/Kg	☼	04/09/14 09:17	04/09/14 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		37 - 120				04/09/14 09:17	04/09/14 22:47	1
Nitrobenzene-d5 (Surr)	73		34 - 132				04/09/14 09:17	04/09/14 22:47	1
p-Terphenyl-d14 (Surr)	99		65 - 153				04/09/14 09:17	04/09/14 22:47	1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		20	6.1	mg/Kg	☼	04/09/14 09:42	04/09/14 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	87		48 - 125				04/09/14 09:42	04/09/14 23:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8	J	1.9	0.38	mg/Kg		04/08/14 16:20	04/10/14 12:06	1
Barium	5.9		0.48	0.11	mg/Kg		04/08/14 16:20	04/10/14 12:06	1
Cadmium	ND		0.19	0.029	mg/Kg		04/08/14 16:20	04/10/14 12:06	1
Chromium	3.4		0.48	0.19	mg/Kg		04/08/14 16:20	04/10/14 12:06	1
Lead	1.8		0.96	0.23	mg/Kg		04/08/14 16:20	04/10/14 12:06	1
Selenium	ND		3.8	0.38	mg/Kg		04/08/14 16:20	04/10/14 12:06	1
Silver	ND		0.57	0.19	mg/Kg		04/08/14 16:20	04/10/14 12:06	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.071		0.019	0.0076	mg/Kg		04/09/14 12:00	04/09/14 15:52	1

Client Sample ID: TP-7 (2.5')

Lab Sample ID: 480-57320-25

Date Collected: 04/03/14 12:55

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		1.8	0.37	mg/Kg		04/08/14 16:20	04/10/14 12:14	1
Barium	22		0.46	0.10	mg/Kg		04/08/14 16:20	04/10/14 12:14	1
Cadmium	ND		0.18	0.028	mg/Kg		04/08/14 16:20	04/10/14 12:14	1
Chromium	1.9		0.46	0.18	mg/Kg		04/08/14 16:20	04/10/14 12:14	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-7 (2.5')

Lab Sample ID: 480-57320-25

Date Collected: 04/03/14 12:55

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		0.92	0.22	mg/Kg		04/08/14 16:20	04/10/14 12:14	1
Selenium	ND		3.7	0.37	mg/Kg		04/08/14 16:20	04/10/14 12:14	1
Silver	ND		0.55	0.18	mg/Kg		04/08/14 16:20	04/10/14 12:14	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.16		0.020	0.0083	mg/Kg		04/09/14 12:00	04/09/14 15:54	1

Client Sample ID: TP-8 (1-2')

Lab Sample ID: 480-57320-26

Date Collected: 04/03/14 13:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 79.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520000	J	1100000	12000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Acenaphthylene	ND		1100000	8600	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Anthracene	1100000		1100000	27000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Benzo[a]anthracene	2300000		1100000	18000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Benzo[a]pyrene	1900000		1100000	25000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Benzo[b]fluoranthene	2300000		1100000	20000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Benzo[g,h,i]perylene	590000	J	1100000	13000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Benzo[k]fluoranthene	1100000		1100000	12000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Chrysene	2400000		1100000	11000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Dibenz(a,h)anthracene	180000	J	1100000	12000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Fluoranthene	5400000		1100000	15000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Fluorene	510000	J	1100000	24000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Indeno[1,2,3-cd]pyrene	550000	J	1100000	29000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Naphthalene	370000	J	1100000	18000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Phenanthrene	5100000		1100000	22000	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Pyrene	3900000		1100000	6800	ug/Kg	*	04/09/14 09:17	04/10/14 03:43	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	X	37 - 120				04/09/14 09:17	04/10/14 03:43	500
Nitrobenzene-d5 (Surr)	0	X	34 - 132				04/09/14 09:17	04/10/14 03:43	500
p-Terphenyl-d14 (Surr)	0	X	65 - 153				04/09/14 09:17	04/10/14 03:43	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		2.1	0.41	mg/Kg		04/08/14 16:20	04/10/14 12:17	1
Barium	360		0.52	0.11	mg/Kg		04/08/14 16:20	04/10/14 12:17	1
Cadmium	1.1		0.21	0.031	mg/Kg		04/08/14 16:20	04/10/14 12:17	1
Chromium	21		0.52	0.21	mg/Kg		04/08/14 16:20	04/10/14 12:17	1
Lead	350		1.0	0.25	mg/Kg		04/08/14 16:20	04/10/14 12:17	1
Selenium	1.5	J	4.1	0.41	mg/Kg		04/08/14 16:20	04/10/14 12:17	1
Silver	ND		0.62	0.21	mg/Kg		04/08/14 16:20	04/10/14 12:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.20		0.019	0.0079	mg/Kg		04/09/14 12:00	04/09/14 15:56	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-8 (6')

Lab Sample ID: 480-57320-27

Date Collected: 04/03/14 13:25

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 76.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	210	J	220	2.6	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Acenaphthylene	ND		220	1.8	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Anthracene	250		220	5.6	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Benzo[a]anthracene	530		220	3.8	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Benzo[a]pyrene	440		220	5.3	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Benzo[b]fluoranthene	570		220	4.2	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Benzo[g,h,i]perylene	170	J	220	2.6	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Benzo[k]fluoranthene	250		220	2.4	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Chrysene	530		220	2.2	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Dibenz(a,h)anthracene	45	J	220	2.6	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Fluoranthene	1100		220	3.2	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Fluorene	140	J	220	5.0	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Indeno[1,2,3-cd]pyrene	160	J	220	6.0	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Naphthalene	460		220	3.6	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Phenanthrene	1100		220	4.6	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Pyrene	860		220	1.4	ug/Kg	☼	04/09/14 09:17	04/11/14 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		37 - 120				04/09/14 09:17	04/11/14 12:44	1
Nitrobenzene-d5 (Surr)	93		34 - 132				04/09/14 09:17	04/11/14 12:44	1
p-Terphenyl-d14 (Surr)	95		65 - 153				04/09/14 09:17	04/11/14 12:44	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.60	J	2.1	0.41	mg/Kg		04/08/14 16:20	04/10/14 12:20	1
Barium	6.6		0.51	0.11	mg/Kg		04/08/14 16:20	04/10/14 12:20	1
Cadmium	0.051	J	0.21	0.031	mg/Kg		04/08/14 16:20	04/10/14 12:20	1
Chromium	26		0.51	0.21	mg/Kg		04/08/14 16:20	04/10/14 12:20	1
Lead	1.6		1.0	0.25	mg/Kg		04/08/14 16:20	04/10/14 12:20	1
Selenium	ND		4.1	0.41	mg/Kg		04/08/14 16:20	04/10/14 12:20	1
Silver	ND		0.62	0.21	mg/Kg		04/08/14 16:20	04/10/14 12:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.097		0.019	0.0075	mg/Kg		04/09/14 12:00	04/09/14 16:02	1

Client Sample ID: TP-9 (5.5-6')

Lab Sample ID: 480-57320-28

Date Collected: 04/03/14 14:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 88.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.6	0.40	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,1,2,2-Tetrachloroethane	ND		5.6	0.90	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.6	1.3	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,1,2-Trichloroethane	ND		5.6	0.73	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,1-Dichloroethane	ND		5.6	0.68	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,1-Dichloroethene	ND		5.6	0.68	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,2,4-Trichlorobenzene	ND		5.6	0.34	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,2-Dibromo-3-Chloropropane	ND		5.6	2.8	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-9 (5.5-6')

Lab Sample ID: 480-57320-28

Date Collected: 04/03/14 14:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 88.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		5.6	0.72	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,2-Dichlorobenzene	ND		5.6	0.44	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,2-Dichloroethane	ND		5.6	0.28	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,2-Dichloropropane	ND		5.6	2.8	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,3-Dichlorobenzene	ND		5.6	0.29	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
1,4-Dichlorobenzene	ND		5.6	0.78	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
2-Butanone (MEK)	ND	*	28	2.0	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
2-Hexanone	ND		28	2.8	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
4-Methyl-2-pentanone (MIBK)	ND		28	1.8	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Acetone	6.2	J	28	4.7	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Benzene	ND		5.6	0.27	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Bromodichloromethane	ND		5.6	0.75	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Bromoform	ND		5.6	2.8	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Bromomethane	ND		5.6	0.50	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Carbon disulfide	ND		5.6	2.8	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Carbon tetrachloride	ND		5.6	0.54	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Chlorobenzene	ND		5.6	0.74	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Chloroethane	ND		5.6	1.3	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Chloroform	ND		5.6	0.34	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Chloromethane	ND		5.6	0.34	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
cis-1,2-Dichloroethene	ND		5.6	0.71	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
cis-1,3-Dichloropropene	ND		5.6	0.80	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Cyclohexane	ND		5.6	0.78	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Dibromochloromethane	ND		5.6	0.71	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Dichlorodifluoromethane	ND		5.6	0.46	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Ethylbenzene	ND		5.6	0.38	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Isopropylbenzene	ND		5.6	0.84	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Methyl acetate	ND		5.6	1.0	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Methyl tert-butyl ether	ND		5.6	0.55	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Methylcyclohexane	ND		5.6	0.85	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Methylene Chloride	ND		5.6	2.6	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Styrene	ND		5.6	0.28	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Tetrachloroethene	ND	*	5.6	0.75	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Toluene	ND		5.6	0.42	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
trans-1,2-Dichloroethene	ND		5.6	0.58	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
trans-1,3-Dichloropropene	ND		5.6	2.5	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Trichloroethene	ND		5.6	1.2	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Trichlorofluoromethane	ND		5.6	0.53	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Vinyl chloride	ND		5.6	0.68	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1
Xylenes, Total	ND		11	0.94	ug/Kg	☼	04/07/14 01:35	04/08/14 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	04/07/14 01:35	04/08/14 20:26	1
4-Bromofluorobenzene (Surr)	101		72 - 126	04/07/14 01:35	04/08/14 20:26	1
Toluene-d8 (Surr)	100		71 - 125	04/07/14 01:35	04/08/14 20:26	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.98	J	2.0	0.40	mg/Kg		04/08/14 16:20	04/10/14 12:22	1
Barium	6.6		0.50	0.11	mg/Kg		04/08/14 16:20	04/10/14 12:22	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
 Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-9 (5.5-6')

Lab Sample ID: 480-57320-28

Date Collected: 04/03/14 14:20

Matrix: Solid

Date Received: 04/05/14 02:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.20	0.030	mg/Kg		04/08/14 16:20	04/10/14 12:22	1
Chromium	1.9		0.50	0.20	mg/Kg		04/08/14 16:20	04/10/14 12:22	1
Lead	1.3		0.99	0.24	mg/Kg		04/08/14 16:20	04/10/14 12:22	1
Selenium	ND		4.0	0.40	mg/Kg		04/08/14 16:20	04/10/14 12:22	1
Silver	ND		0.60	0.20	mg/Kg		04/08/14 16:20	04/10/14 12:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0081	mg/Kg		04/09/14 12:00	04/09/14 16:04	1



Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (64-126)	BFB (72-126)	TOL (71-125)
480-57320-28	TP-9 (5.5-6')	106	101	100
LCS 480-174450/5	Lab Control Sample	107	101	100
MB 480-174450/7	Method Blank	99	98	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (37-120)	NBZ (34-132)	TPH (65-153)
480-57320-3	S-101	97	78	103
480-57320-4	S-102	96	78	98
480-57320-15	TP-2 (2-2.5')	93	74	100
480-57320-16	TP-2 (4.8')	95	78	101
480-57320-17	TP-3 (5-5.5')	92	76	92
480-57320-18	TP-3 (2-2.5')	0 X	0 X	0 X
480-57320-19	TP-4 (1.5-2')	100	78	98
480-57320-22	TP-5 (4-4.5')	97	73	99
480-57320-26	TP-8 (1-2')	0 X	0 X	0 X
480-57320-27	TP-8 (6')	97	93	95
LCS 480-174663/2-A	Lab Control Sample	97	92	102
MB 480-174663/1-A	Method Blank	97	86	105

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTPH (48-125)
480-57320-3	S-101	85
480-57320-4	S-102	88
480-57320-19	TP-4 (1.5-2')	86
480-57320-22	TP-5 (4-4.5')	87
LCS 480-174686/2-A	Lab Control Sample	91
LCSD 480-174686/3-A	Lab Control Sample Dup	92
MB 480-174686/1-A	Method Blank	86

Surrogate Legend

OTPH = o-Terphenyl

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-174450/7

Matrix: Solid

Analysis Batch: 174450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			04/08/14 12:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg			04/08/14 12:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg			04/08/14 12:32	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg			04/08/14 12:32	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg			04/08/14 12:32	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg			04/08/14 12:32	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg			04/08/14 12:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg			04/08/14 12:32	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg			04/08/14 12:32	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg			04/08/14 12:32	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg			04/08/14 12:32	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			04/08/14 12:32	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg			04/08/14 12:32	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg			04/08/14 12:32	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg			04/08/14 12:32	1
2-Hexanone	ND		25	2.5	ug/Kg			04/08/14 12:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg			04/08/14 12:32	1
Acetone	ND		25	4.2	ug/Kg			04/08/14 12:32	1
Benzene	ND		5.0	0.25	ug/Kg			04/08/14 12:32	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg			04/08/14 12:32	1
Bromoform	ND		5.0	2.5	ug/Kg			04/08/14 12:32	1
Bromomethane	ND		5.0	0.45	ug/Kg			04/08/14 12:32	1
Carbon disulfide	ND		5.0	2.5	ug/Kg			04/08/14 12:32	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg			04/08/14 12:32	1
Chlorobenzene	ND		5.0	0.66	ug/Kg			04/08/14 12:32	1
Chloroethane	ND		5.0	1.1	ug/Kg			04/08/14 12:32	1
Chloroform	ND		5.0	0.31	ug/Kg			04/08/14 12:32	1
Chloromethane	ND		5.0	0.30	ug/Kg			04/08/14 12:32	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg			04/08/14 12:32	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg			04/08/14 12:32	1
Cyclohexane	ND		5.0	0.70	ug/Kg			04/08/14 12:32	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg			04/08/14 12:32	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg			04/08/14 12:32	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			04/08/14 12:32	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg			04/08/14 12:32	1
Methyl acetate	ND		5.0	0.93	ug/Kg			04/08/14 12:32	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg			04/08/14 12:32	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg			04/08/14 12:32	1
Methylene Chloride	ND		5.0	2.3	ug/Kg			04/08/14 12:32	1
Styrene	ND		5.0	0.25	ug/Kg			04/08/14 12:32	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			04/08/14 12:32	1
Toluene	ND		5.0	0.38	ug/Kg			04/08/14 12:32	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg			04/08/14 12:32	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg			04/08/14 12:32	1
Trichloroethene	ND		5.0	1.1	ug/Kg			04/08/14 12:32	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg			04/08/14 12:32	1
Vinyl chloride	ND		5.0	0.61	ug/Kg			04/08/14 12:32	1
Xylenes, Total	ND		10	0.84	ug/Kg			04/08/14 12:32	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-174450/7

Matrix: Solid

Analysis Batch: 174450

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		64 - 126		04/08/14 12:32	1
4-Bromofluorobenzene (Surr)	98		72 - 126		04/08/14 12:32	1
Toluene-d8 (Surr)	99		71 - 125		04/08/14 12:32	1

Lab Sample ID: LCS 480-174450/5

Matrix: Solid

Analysis Batch: 174450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1-Dichloroethane	50.0	51.1		ug/Kg		102	73 - 126
1,1-Dichloroethene	50.0	50.7		ug/Kg		101	59 - 125
1,2-Dichlorobenzene	50.0	50.2		ug/Kg		100	75 - 120
1,2-Dichloroethane	50.0	47.5		ug/Kg		95	77 - 122
Benzene	50.0	49.8		ug/Kg		100	79 - 127
Chlorobenzene	50.0	50.8		ug/Kg		102	76 - 124
cis-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	81 - 117
Ethylbenzene	50.0	51.4		ug/Kg		103	80 - 120
Methyl tert-butyl ether	50.0	47.5		ug/Kg		95	63 - 125
Tetrachloroethene	50.0	60.9		ug/Kg		122	74 - 122
Toluene	50.0	50.9		ug/Kg		102	74 - 128
trans-1,2-Dichloroethene	50.0	50.0		ug/Kg		100	78 - 126
Trichloroethene	50.0	51.1		ug/Kg		102	77 - 129

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	107		64 - 126
4-Bromofluorobenzene (Surr)	101		72 - 126
Toluene-d8 (Surr)	100		71 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-174663/1-A

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174663

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Acenaphthylene	ND		170	1.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Anthracene	ND		170	4.3	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[a]anthracene	ND		170	2.9	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[a]pyrene	ND		170	4.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[b]fluoranthene	ND		170	3.2	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[g,h,i]perylene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[k]fluoranthene	ND		170	1.8	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Chrysene	ND		170	1.7	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Fluoranthene	ND		170	2.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Fluorene	ND		170	3.8	ug/Kg		04/09/14 09:17	04/11/14 10:41	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-174663/1-A

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		170	4.6	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Naphthalene	ND		170	2.8	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Phenanthrene	ND		170	3.5	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Pyrene	ND		170	1.1	ug/Kg		04/09/14 09:17	04/11/14 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		37 - 120	04/09/14 09:17	04/11/14 10:41	1
Nitrobenzene-d5 (Surr)	86		34 - 132	04/09/14 09:17	04/11/14 10:41	1
p-Terphenyl-d14 (Surr)	105		65 - 153	04/09/14 09:17	04/11/14 10:41	1

Lab Sample ID: LCS 480-174663/2-A

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 174663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3240	3140		ug/Kg		97	53 - 120
Acenaphthylene	3240	3100		ug/Kg		95	58 - 121
Anthracene	3240	3250		ug/Kg		100	62 - 129
Benzo[a]anthracene	3240	3210		ug/Kg		99	65 - 133
Benzo[a]pyrene	3240	3340		ug/Kg		103	64 - 127
Benzo[b]fluoranthene	3240	3630		ug/Kg		112	64 - 135
Benzo[g,h,i]perylene	3240	3680		ug/Kg		113	50 - 152
Benzo[k]fluoranthene	3240	3280		ug/Kg		101	58 - 138
Chrysene	3240	3210		ug/Kg		99	64 - 131
Dibenz(a,h)anthracene	3240	3720		ug/Kg		115	54 - 148
Fluoranthene	3240	3420		ug/Kg		105	62 - 131
Fluorene	3240	3180		ug/Kg		98	63 - 126
Indeno[1,2,3-cd]pyrene	3240	3660		ug/Kg		113	56 - 149
Naphthalene	3240	2880		ug/Kg		89	46 - 120
Phenanthrene	3240	3280		ug/Kg		101	60 - 130
Pyrene	3240	3170		ug/Kg		98	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	97		37 - 120
Nitrobenzene-d5 (Surr)	92		34 - 132
p-Terphenyl-d14 (Surr)	102		65 - 153

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-174686/1-A

Matrix: Solid

Analysis Batch: 174716

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		04/09/14 09:42	04/09/14 19:09	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 480-174686/1-A
Matrix: Solid
Analysis Batch: 174716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174686

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	86		48 - 125	04/09/14 09:42	04/09/14 19:09	1

Lab Sample ID: LCS 480-174686/2-A
Matrix: Solid
Analysis Batch: 174716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	91		48 - 125

Lab Sample ID: LCSD 480-174686/3-A
Matrix: Solid
Analysis Batch: 174716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	92		48 - 125

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-174368/1-A
Matrix: Solid
Analysis Batch: 176107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174368

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		2.2	0.43	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Barium	ND	^	0.54	0.12	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Cadmium	ND		0.22	0.032	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Chromium	ND		0.54	0.22	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Lead	ND		1.1	0.26	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Selenium	ND		4.3	0.43	mg/Kg		04/08/14 13:25	04/15/14 11:29	1
Silver	ND		0.65	0.22	mg/Kg		04/08/14 13:25	04/15/14 11:29	1

Lab Sample ID: LCSSRM 480-174368/2-A
Matrix: Solid
Analysis Batch: 176107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174368

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	210	184	^	mg/Kg		87.4	73.3 - 126.7

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-174368/2-A
Matrix: Solid
Analysis Batch: 176107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174368

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	143	129		mg/Kg		90.2	72.7 - 127.3
Chromium	86.9	76.6		mg/Kg		88.1	69.1 - 131.3
Lead	98.0	95.4		mg/Kg		97.3	70.8 - 128.7
Selenium	127	120		mg/Kg		94.7	66.6 - 133.9
Silver	66.3	61.9		mg/Kg		93.4	67.1 - 132.9

Lab Sample ID: 480-57320-1 MS
Matrix: Solid
Analysis Batch: 176107

Client Sample ID: TP-1 (2.5-3.5)
Prep Type: Total/NA
Prep Batch: 174368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.6	J	38.2	42.0		mg/Kg		106	75 - 125
Barium	8.4	^	38.2	51.6	^	mg/Kg		113	75 - 125
Cadmium	0.035	J	38.2	37.7		mg/Kg		99	75 - 125
Chromium	2.9		38.2	41.2		mg/Kg		100	75 - 125
Lead	15		38.2	51.0		mg/Kg		95	75 - 125
Selenium	ND		38.2	38.4		mg/Kg		100	75 - 125
Silver	ND		9.56	9.48		mg/Kg		99	75 - 125

Lab Sample ID: 480-57320-1 MSD
Matrix: Solid
Analysis Batch: 176107

Client Sample ID: TP-1 (2.5-3.5)
Prep Type: Total/NA
Prep Batch: 174368

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	1.6	J	41.0	44.8		mg/Kg		105	75 - 125	7	20
Barium	8.4	^	41.0	51.7	^	mg/Kg		106	75 - 125	0	20
Cadmium	0.035	J	41.0	40.6		mg/Kg		99	75 - 125	7	20
Chromium	2.9		41.0	43.5		mg/Kg		99	75 - 125	5	20
Lead	15		41.0	55.6		mg/Kg		100	75 - 125	8	20
Selenium	ND		41.0	41.4		mg/Kg		101	75 - 125	8	20
Silver	ND		10.3	10.0		mg/Kg		98	75 - 125	6	20

Lab Sample ID: MB 480-174370/1-A
Matrix: Solid
Analysis Batch: 175136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.9	0.39	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Barium	ND		0.48	0.11	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Cadmium	ND		0.19	0.029	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Chromium	ND		0.48	0.19	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Lead	ND		0.97	0.23	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Selenium	ND		3.9	0.39	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Silver	ND		0.58	0.19	mg/Kg		04/08/14 16:20	04/10/14 11:29	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-174370/2-A
Matrix: Solid
Analysis Batch: 175136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174370

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	88.6	86.6		mg/Kg		97.7	69.0 - 131.2
Barium	210	194		mg/Kg		92.3	73.3 - 126.7
Cadmium	143	132		mg/Kg		92.4	72.7 - 127.3
Chromium	87.0	80.2		mg/Kg		92.3	69.1 - 131.3
Lead	98.1	97.1		mg/Kg		99.0	70.8 - 128.7
Selenium	127	122		mg/Kg		95.5	66.6 - 133.9
Silver	66.3	62.9		mg/Kg		94.8	67.1 - 132.9

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-174619/1-A
Matrix: Solid
Analysis Batch: 174789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.018	0.0074	mg/Kg		04/09/14 12:00	04/09/14 15:17	1

Lab Sample ID: LCSSRM 480-174619/2-A
Matrix: Solid
Analysis Batch: 174789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174619

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	3.77	3.44		mg/Kg		91.2	50.9 - 149.1

Lab Sample ID: 480-57320-1 MS
Matrix: Solid
Analysis Batch: 174789

Client Sample ID: TP-1 (2.5-3.5)
Prep Type: Total/NA
Prep Batch: 174619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	0.014	J	0.343	0.386		mg/Kg		108	80 - 120

Lab Sample ID: 480-57320-1 MSD
Matrix: Solid
Analysis Batch: 174789

Client Sample ID: TP-1 (2.5-3.5)
Prep Type: Total/NA
Prep Batch: 174619

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	0.014	J	0.324	0.385		mg/Kg		114	80 - 120	0	20

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

GC/MS VOA

Prep Batch: 174119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-28	TP-9 (5.5-6')	Total/NA	Solid	5035A	

Analysis Batch: 174450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-28	TP-9 (5.5-6')	Total/NA	Solid	8260C	174119
LCS 480-174450/5	Lab Control Sample	Total/NA	Solid	8260C	
MB 480-174450/7	Method Blank	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 174663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-3	S-101	Total/NA	Solid	3550C	
480-57320-4	S-102	Total/NA	Solid	3550C	
480-57320-15	TP-2 (2-2.5')	Total/NA	Solid	3550C	
480-57320-16	TP-2 (4.8')	Total/NA	Solid	3550C	
480-57320-17	TP-3 (5-5.5')	Total/NA	Solid	3550C	
480-57320-18	TP-3 (2-2.5')	Total/NA	Solid	3550C	
480-57320-19	TP-4 (1.5-2')	Total/NA	Solid	3550C	
480-57320-22	TP-5 (4-4.5')	Total/NA	Solid	3550C	
480-57320-26	TP-8 (1-2')	Total/NA	Solid	3550C	
480-57320-27	TP-8 (6')	Total/NA	Solid	3550C	
LCS 480-174663/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-174663/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 174773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-3	S-101	Total/NA	Solid	8270D	174663
480-57320-4	S-102	Total/NA	Solid	8270D	174663
480-57320-15	TP-2 (2-2.5')	Total/NA	Solid	8270D	174663
480-57320-16	TP-2 (4.8')	Total/NA	Solid	8270D	174663
480-57320-17	TP-3 (5-5.5')	Total/NA	Solid	8270D	174663
480-57320-18	TP-3 (2-2.5')	Total/NA	Solid	8270D	174663
480-57320-19	TP-4 (1.5-2')	Total/NA	Solid	8270D	174663
480-57320-22	TP-5 (4-4.5')	Total/NA	Solid	8270D	174663
480-57320-26	TP-8 (1-2')	Total/NA	Solid	8270D	174663

Analysis Batch: 175108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-27	TP-8 (6')	Total/NA	Solid	8270D	174663
LCS 480-174663/2-A	Lab Control Sample	Total/NA	Solid	8270D	174663
MB 480-174663/1-A	Method Blank	Total/NA	Solid	8270D	174663

GC Semi VOA

Prep Batch: 174686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-3	S-101	Total/NA	Solid	3550C	
480-57320-4	S-102	Total/NA	Solid	3550C	
480-57320-19	TP-4 (1.5-2')	Total/NA	Solid	3550C	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

GC Semi VOA (Continued)

Prep Batch: 174686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-22	TP-5 (4-4.5')	Total/NA	Solid	3550C	
LCS 480-174686/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-174686/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 480-174686/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 174716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-3	S-101	Total/NA	Solid	8015D	174686
480-57320-4	S-102	Total/NA	Solid	8015D	174686
480-57320-19	TP-4 (1.5-2')	Total/NA	Solid	8015D	174686
480-57320-22	TP-5 (4-4.5')	Total/NA	Solid	8015D	174686
LCS 480-174686/2-A	Lab Control Sample	Total/NA	Solid	8015D	174686
LCSD 480-174686/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	174686
MB 480-174686/1-A	Method Blank	Total/NA	Solid	8015D	174686

Metals

Prep Batch: 174368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-1	TP-1 (2.5-3.5)	Total/NA	Solid	3050B	
480-57320-1 MS	TP-1 (2.5-3.5)	Total/NA	Solid	3050B	
480-57320-1 MSD	TP-1 (2.5-3.5)	Total/NA	Solid	3050B	
480-57320-3	S-101	Total/NA	Solid	3050B	
480-57320-4	S-102	Total/NA	Solid	3050B	
480-57320-5	S-103	Total/NA	Solid	3050B	
480-57320-6	S-104	Total/NA	Solid	3050B	
480-57320-7	S-105	Total/NA	Solid	3050B	
480-57320-8	S-106	Total/NA	Solid	3050B	
480-57320-9	S-107	Total/NA	Solid	3050B	
480-57320-10	S-108	Total/NA	Solid	3050B	
480-57320-11	S-109	Total/NA	Solid	3050B	
480-57320-12	S-110	Total/NA	Solid	3050B	
480-57320-13	S-111	Total/NA	Solid	3050B	
480-57320-14	S-112	Total/NA	Solid	3050B	
480-57320-15	TP-2 (2-2.5')	Total/NA	Solid	3050B	
480-57320-16	TP-2 (4.8')	Total/NA	Solid	3050B	
480-57320-17	TP-3 (5-5.5')	Total/NA	Solid	3050B	
480-57320-18	TP-3 (2-2.5')	Total/NA	Solid	3050B	
480-57320-19	TP-4 (1.5-2')	Total/NA	Solid	3050B	
LCSSRM 480-174368/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-174368/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 174370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-22	TP-5 (4-4.5')	Total/NA	Solid	3050B	
480-57320-25	TP-7 (2.5')	Total/NA	Solid	3050B	
480-57320-26	TP-8 (1-2')	Total/NA	Solid	3050B	
480-57320-27	TP-8 (6')	Total/NA	Solid	3050B	
480-57320-28	TP-9 (5.5-6')	Total/NA	Solid	3050B	
LCSSRM 480-174370/2-A	Lab Control Sample	Total/NA	Solid	3050B	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Metals (Continued)

Prep Batch: 174370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-174370/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 174619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-1	TP-1 (2.5-3.5)	Total/NA	Solid	7471B	
480-57320-1 MS	TP-1 (2.5-3.5)	Total/NA	Solid	7471B	
480-57320-1 MSD	TP-1 (2.5-3.5)	Total/NA	Solid	7471B	
480-57320-3	S-101	Total/NA	Solid	7471B	
480-57320-4	S-102	Total/NA	Solid	7471B	
480-57320-15	TP-2 (2-2.5')	Total/NA	Solid	7471B	
480-57320-16	TP-2 (4.8')	Total/NA	Solid	7471B	
480-57320-17	TP-3 (5-5.5')	Total/NA	Solid	7471B	
480-57320-18	TP-3 (2-2.5')	Total/NA	Solid	7471B	
480-57320-19	TP-4 (1.5-2')	Total/NA	Solid	7471B	
480-57320-22	TP-5 (4-4.5')	Total/NA	Solid	7471B	
480-57320-25	TP-7 (2.5')	Total/NA	Solid	7471B	
480-57320-26	TP-8 (1-2')	Total/NA	Solid	7471B	
480-57320-27	TP-8 (6')	Total/NA	Solid	7471B	
480-57320-28	TP-9 (5.5-6')	Total/NA	Solid	7471B	
LCSSRM 480-174619/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-174619/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 174789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-1	TP-1 (2.5-3.5)	Total/NA	Solid	7471B	174619
480-57320-1 MS	TP-1 (2.5-3.5)	Total/NA	Solid	7471B	174619
480-57320-1 MSD	TP-1 (2.5-3.5)	Total/NA	Solid	7471B	174619
480-57320-3	S-101	Total/NA	Solid	7471B	174619
480-57320-4	S-102	Total/NA	Solid	7471B	174619
480-57320-15	TP-2 (2-2.5')	Total/NA	Solid	7471B	174619
480-57320-16	TP-2 (4.8')	Total/NA	Solid	7471B	174619
480-57320-17	TP-3 (5-5.5')	Total/NA	Solid	7471B	174619
480-57320-18	TP-3 (2-2.5')	Total/NA	Solid	7471B	174619
480-57320-19	TP-4 (1.5-2')	Total/NA	Solid	7471B	174619
480-57320-22	TP-5 (4-4.5')	Total/NA	Solid	7471B	174619
480-57320-25	TP-7 (2.5')	Total/NA	Solid	7471B	174619
480-57320-26	TP-8 (1-2')	Total/NA	Solid	7471B	174619
480-57320-27	TP-8 (6')	Total/NA	Solid	7471B	174619
480-57320-28	TP-9 (5.5-6')	Total/NA	Solid	7471B	174619
LCSSRM 480-174619/2-A	Lab Control Sample	Total/NA	Solid	7471B	174619
MB 480-174619/1-A	Method Blank	Total/NA	Solid	7471B	174619

Analysis Batch: 175136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-22	TP-5 (4-4.5')	Total/NA	Solid	6010C	174370
480-57320-25	TP-7 (2.5')	Total/NA	Solid	6010C	174370
480-57320-26	TP-8 (1-2')	Total/NA	Solid	6010C	174370
480-57320-27	TP-8 (6')	Total/NA	Solid	6010C	174370
480-57320-28	TP-9 (5.5-6')	Total/NA	Solid	6010C	174370
LCSSRM 480-174370/2-A	Lab Control Sample	Total/NA	Solid	6010C	174370
MB 480-174370/1-A	Method Blank	Total/NA	Solid	6010C	174370

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Metals (Continued)

Analysis Batch: 176107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-1	TP-1 (2.5-3.5)	Total/NA	Solid	6010C	174368
480-57320-1 MS	TP-1 (2.5-3.5)	Total/NA	Solid	6010C	174368
480-57320-1 MSD	TP-1 (2.5-3.5)	Total/NA	Solid	6010C	174368
480-57320-3	S-101	Total/NA	Solid	6010C	174368
480-57320-4	S-102	Total/NA	Solid	6010C	174368
480-57320-5	S-103	Total/NA	Solid	6010C	174368
480-57320-6	S-104	Total/NA	Solid	6010C	174368
480-57320-8	S-106	Total/NA	Solid	6010C	174368
480-57320-9	S-107	Total/NA	Solid	6010C	174368
480-57320-10	S-108	Total/NA	Solid	6010C	174368
480-57320-11	S-109	Total/NA	Solid	6010C	174368
480-57320-12	S-110	Total/NA	Solid	6010C	174368
480-57320-13	S-111	Total/NA	Solid	6010C	174368
480-57320-14	S-112	Total/NA	Solid	6010C	174368
480-57320-15	TP-2 (2-2.5')	Total/NA	Solid	6010C	174368
480-57320-16	TP-2 (4.8')	Total/NA	Solid	6010C	174368
480-57320-17	TP-3 (5-5.5')	Total/NA	Solid	6010C	174368
480-57320-18	TP-3 (2-2.5')	Total/NA	Solid	6010C	174368
480-57320-19	TP-4 (1.5-2')	Total/NA	Solid	6010C	174368
LCSSRM 480-174368/2-A	Lab Control Sample	Total/NA	Solid	6010C	174368
MB 480-174368/1-A	Method Blank	Total/NA	Solid	6010C	174368

Analysis Batch: 176243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-7	S-105	Total/NA	Solid	6010C	174368
480-57320-17	TP-3 (5-5.5')	Total/NA	Solid	6010C	174368

General Chemistry

Analysis Batch: 174093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-1	TP-1 (2.5-3.5)	Total/NA	Solid	Moisture	
480-57320-3	S-101	Total/NA	Solid	Moisture	
480-57320-4	S-102	Total/NA	Solid	Moisture	
480-57320-5	S-103	Total/NA	Solid	Moisture	
480-57320-6	S-104	Total/NA	Solid	Moisture	
480-57320-7	S-105	Total/NA	Solid	Moisture	
480-57320-8	S-106	Total/NA	Solid	Moisture	
480-57320-9	S-107	Total/NA	Solid	Moisture	
480-57320-10	S-108	Total/NA	Solid	Moisture	
480-57320-11	S-109	Total/NA	Solid	Moisture	
480-57320-12	S-110	Total/NA	Solid	Moisture	
480-57320-13	S-111	Total/NA	Solid	Moisture	
480-57320-14	S-112	Total/NA	Solid	Moisture	
480-57320-15	TP-2 (2-2.5')	Total/NA	Solid	Moisture	
480-57320-16	TP-2 (4.8')	Total/NA	Solid	Moisture	
480-57320-17	TP-3 (5-5.5')	Total/NA	Solid	Moisture	
480-57320-18	TP-3 (2-2.5')	Total/NA	Solid	Moisture	
480-57320-19	TP-4 (1.5-2')	Total/NA	Solid	Moisture	
480-57320-22	TP-5 (4-4.5')	Total/NA	Solid	Moisture	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

General Chemistry (Continued)

Analysis Batch: 174093 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-25	TP-7 (2.5')	Total/NA	Solid	Moisture	
480-57320-26	TP-8 (1-2')	Total/NA	Solid	Moisture	
480-57320-27	TP-8 (6')	Total/NA	Solid	Moisture	
480-57320-28	TP-9 (5.5-6')	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-1 (2.5-3.5)

Lab Sample ID: 480-57320-1

Date Collected: 04/02/14 11:50

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 11:35	AMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:20	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-101

Lab Sample ID: 480-57320-3

Date Collected: 04/02/14 12:05

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		1	174773	04/09/14 19:54	HTL	TAL BUF
Total/NA	Prep	3550C			174686	04/09/14 09:42	CAM	TAL BUF
Total/NA	Analysis	8015D		1	174716	04/09/14 21:58	DLE	TAL BUF
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:05	AMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:33	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-102

Lab Sample ID: 480-57320-4

Date Collected: 04/02/14 12:07

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		1	174773	04/09/14 20:19	HTL	TAL BUF
Total/NA	Prep	3550C			174686	04/09/14 09:42	CAM	TAL BUF
Total/NA	Analysis	8015D		1	174716	04/09/14 22:32	DLE	TAL BUF
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:08	AMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:35	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-103

Lab Sample ID: 480-57320-5

Date Collected: 04/02/14 12:21

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:10	AMH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: S-103

Lab Sample ID: 480-57320-5

Date Collected: 04/02/14 12:21

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-104

Lab Sample ID: 480-57320-6

Date Collected: 04/02/14 12:22

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:13	AMH	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-105

Lab Sample ID: 480-57320-7

Date Collected: 04/02/14 12:23

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		5	176243	04/16/14 13:13	AMH	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-106

Lab Sample ID: 480-57320-8

Date Collected: 04/02/14 12:24

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:33	AMH	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-107

Lab Sample ID: 480-57320-9

Date Collected: 04/02/14 12:25

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:35	AMH	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: S-108

Lab Sample ID: 480-57320-10

Date Collected: 04/02/14 14:00

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:38	AMH	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-109

Lab Sample ID: 480-57320-11

Date Collected: 04/02/14 14:01

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:41	AMH	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-110

Lab Sample ID: 480-57320-12

Date Collected: 04/02/14 14:02

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:44	AMH	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-111

Lab Sample ID: 480-57320-13

Date Collected: 04/02/14 14:03

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:46	AMH	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: S-112

Lab Sample ID: 480-57320-14

Date Collected: 04/02/14 14:04

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 12:49	AMH	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-2 (2-2.5')

Lab Sample ID: 480-57320-15

Date Collected: 04/03/14 09:15

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		1	174773	04/09/14 20:43	HTL	TAL BUF
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 13:06	AMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:37	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: TP-2 (4.8')

Lab Sample ID: 480-57320-16

Date Collected: 04/03/14 09:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		1	174773	04/09/14 21:08	HTL	TAL BUF
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 13:09	AMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:39	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: TP-3 (5-5.5')

Lab Sample ID: 480-57320-17

Date Collected: 04/03/14 10:00

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 25.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		5	174773	04/09/14 21:33	HTL	TAL BUF
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 13:11	AMH	TAL BUF
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		10	176243	04/16/14 13:18	AMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		5	174789	04/09/14 16:17	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: TP-3 (2-2.5')

Lab Sample ID: 480-57320-18

Date Collected: 04/03/14 10:05

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		500	174773	04/10/14 03:18	HTL	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-3 (2-2.5')

Lab Sample ID: 480-57320-18

Date Collected: 04/03/14 10:05

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 13:14	AMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:42	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: TP-4 (1.5-2')

Lab Sample ID: 480-57320-19

Date Collected: 04/03/14 11:25

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		1	174773	04/09/14 22:22	HTL	TAL BUF
Total/NA	Prep	3550C			174686	04/09/14 09:42	CAM	TAL BUF
Total/NA	Analysis	8015D		1	174716	04/09/14 23:05	DLE	TAL BUF
Total/NA	Prep	3050B			174368	04/08/14 13:25	EHD	TAL BUF
Total/NA	Analysis	6010C		1	176107	04/15/14 13:17	AMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		100	174789	04/09/14 16:15	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: TP-5 (4-4.5')

Lab Sample ID: 480-57320-22

Date Collected: 04/03/14 11:55

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		1	174773	04/09/14 22:47	HTL	TAL BUF
Total/NA	Prep	3550C			174686	04/09/14 09:42	CAM	TAL BUF
Total/NA	Analysis	8015D		1	174716	04/09/14 23:39	DLE	TAL BUF
Total/NA	Prep	3050B			174370	04/08/14 16:20	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175136	04/10/14 12:06	LMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:52	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: TP-7 (2.5')

Lab Sample ID: 480-57320-25

Date Collected: 04/03/14 12:55

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			174370	04/08/14 16:20	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175136	04/10/14 12:14	LMH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Client Sample ID: TP-7 (2.5')

Lab Sample ID: 480-57320-25

Date Collected: 04/03/14 12:55

Matrix: Solid

Date Received: 04/05/14 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:54	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: TP-8 (1-2')

Lab Sample ID: 480-57320-26

Date Collected: 04/03/14 13:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		500	174773	04/10/14 03:43	HTL	TAL BUF
Total/NA	Prep	3050B			174370	04/08/14 16:20	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175136	04/10/14 12:17	LMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 15:56	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: TP-8 (6')

Lab Sample ID: 480-57320-27

Date Collected: 04/03/14 13:25

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175108	04/11/14 12:44	HTL	TAL BUF
Total/NA	Prep	3050B			174370	04/08/14 16:20	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175136	04/10/14 12:20	LMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 16:02	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Client Sample ID: TP-9 (5.5-6')

Lab Sample ID: 480-57320-28

Date Collected: 04/03/14 14:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			174119	04/07/14 01:35	CDC	TAL BUF
Total/NA	Analysis	8260C		1	174450	04/08/14 20:26	CDC	TAL BUF
Total/NA	Prep	3050B			174370	04/08/14 16:20	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175136	04/10/14 12:22	LMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 16:04	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Certification Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Rhode Island	State Program	1	LAO00328	12-30-14

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Method Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57320-1	TP-1 (2.5-3.5)	Solid	04/02/14 11:50	04/05/14 02:00
480-57320-3	S-101	Solid	04/02/14 12:05	04/05/14 02:00
480-57320-4	S-102	Solid	04/02/14 12:07	04/05/14 02:00
480-57320-5	S-103	Solid	04/02/14 12:21	04/05/14 02:00
480-57320-6	S-104	Solid	04/02/14 12:22	04/05/14 02:00
480-57320-7	S-105	Solid	04/02/14 12:23	04/05/14 02:00
480-57320-8	S-106	Solid	04/02/14 12:24	04/05/14 02:00
480-57320-9	S-107	Solid	04/02/14 12:25	04/05/14 02:00
480-57320-10	S-108	Solid	04/02/14 14:00	04/05/14 02:00
480-57320-11	S-109	Solid	04/02/14 14:01	04/05/14 02:00
480-57320-12	S-110	Solid	04/02/14 14:02	04/05/14 02:00
480-57320-13	S-111	Solid	04/02/14 14:03	04/05/14 02:00
480-57320-14	S-112	Solid	04/02/14 14:04	04/05/14 02:00
480-57320-15	TP-2 (2-2.5')	Solid	04/03/14 09:15	04/05/14 02:00
480-57320-16	TP-2 (4.8')	Solid	04/03/14 09:20	04/05/14 02:00
480-57320-17	TP-3 (5-5.5')	Solid	04/03/14 10:00	04/05/14 02:00
480-57320-18	TP-3 (2-2.5')	Solid	04/03/14 10:05	04/05/14 02:00
480-57320-19	TP-4 (1.5-2')	Solid	04/03/14 11:25	04/05/14 02:00
480-57320-22	TP-5 (4-4.5')	Solid	04/03/14 11:55	04/05/14 02:00
480-57320-25	TP-7 (2.5')	Solid	04/03/14 12:55	04/05/14 02:00
480-57320-26	TP-8 (1-2')	Solid	04/03/14 13:20	04/05/14 02:00
480-57320-27	TP-8 (6')	Solid	04/03/14 13:25	04/05/14 02:00
480-57320-28	TP-9 (5.5-6')	Solid	04/03/14 14:20	04/05/14 02:00



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

480-57320 Chain of Custody

TAL-4124 (1007)

Client: **Resource Control Associates** Project Manager: **Danville Gotsinger** Chain of Custody Number: **261773**

Address: **47th Broadway** Telephone Number (Area Code)/Fax Number: **(401) 786-6560** Lab Number: **4/3/14** Page: **1** of **3**

City: **Pawtucket** State: **RI** Zip Code: **02860** Lab Contact: _____

Project Name and Location (State): **731A Rhode Island** Carrier/Maybill Number: _____

Contract/Purchase Order/Quote No.: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt			
			Air	Soils	Sed.	Sludges	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH		
TP-1 (25-3.5)	4/8/14	1150		X													
TN composite		1155		X													
S-101		1201		X													
S-102		1201		X													
S-103		1201		X													
S-104		1201		X													
S-105		1201		X													
S-106		1201		X													
S-107		1201		X													
S-108		1201		X													
S-109		1201		X													
S-110		1201		X													

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Other _____

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify):

1. Relinquished By: **[Signature]** Date: **4/14/14** Time: **1245**

2. Relinquished By: **[Signature]** Date: **4.5.14** Time: **1200**

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **4.8-#1**

TestAmerica

Temperature on Receipt _____

Drinking Water? Yes No

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

TAL-4124 (1007)

Client: **Resane Control Associates** Project Manager: **Danielle Giesinger** Date: **4/3/14** Chain of Custody Number: **261764**
 Address: **174 Broadway** Telephone Number (Area Code)/Fax Number: **(401) 788-6860** Lab Number: _____ Page **2** of **3**
 City: **Pawtucket** State: **RI** Zip Code: **02860** Site Contact: _____ Lab Contact: _____

Project Name and Location (State): **731A Barrington, RI** Carrier/Maybill Number: _____
 Contract/Purchase Order/Quote No.: _____
 Analysis (Attach list if more space is needed):
 REPA's metals: _____
 Asbestos only: _____
 PAH: _____
 TPH: _____
 VOC: _____
 M&B: _____
 Disposal: _____
 Special Instructions/Conditions of Receipt: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives						Special Instructions/Conditions of Receipt			
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH		
S-111	4/2/14	1403		X											
S-112	4/3/14	1404		X											
TP-2 (2'-2.5')	4/3/14	0915		X				X	X	X					
TP-2 (4'-8')		0920		X				X	X	X					
TP-3 (5'-5.5')		1000		X				X	X	X					
TP-3 (2'-2.5')		1005		X				X	X	X					
TP-4 (1.5'-2')		1125		X				X	X	X					
TP-4 (3')		1130		X				X	X	X					HOLD
TP-5 (1.5'-2.5')		1150		X				X	X	X					HOLD
TP-5 (4'-4.5')		1155		X				X	X	X					HOLD
TP-6 (1.5'-2')		1211		X				X	X	X					HOLD
TP-6 (3.5')		1220		X				X	X	X					HOLD

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____
 1. Relinquished By: **Jerry Deah** Date: **4/4/14** Time: **12:15**
 2. Relinquished By: **Jerry Deah** Date: **4/4/14** Time: **15:50**
 3. Relinquished By: _____ Date: _____ Time: _____
 1. Received By: _____ Date: **4-4-14** Time: **12:15**
 2. Received By: _____ Date: **4-5-14** Time: **2:20**
 3. Received By: _____ Date: _____ Time: _____

Comments: _____
 4. f t t l

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)
 Client: **Resource Control Associates**
 Address: **474 Broadway**
 City: **Pawtucket** State: **RI** Zip Code: **02860**
 Project Name and Location (State): **7131A Pawtucket, RI**
 Contract/Purchase Order/Quote No. _____
 Project Manager: **Danville Gekkingen**
 Telephone Number (Area Code)/Fax Number: **(401) 786-6860**
 Date: **4/3/14**
 Chain of Custody Number: **261765**
 Page **3** of **3**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH
TP-7 (2.5')		1255				X								
TP-8 (1-2')		1300				X								
TP-8 (6')		1305				X								
TP-9 (5.5-6')		1400				X								
Disposal		1420				X								

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Other _____

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By: **Jerry Zah** Date: **4/4/14** Time: **1505**
 2. Relinquished By: **Jerry Zah** Date: **4-4-14** Time: **1505**
 3. Relinquished By: **Jerry Zah** Date: **4-5-14** Time: **0200**

Comments: **4. f #1**

Login Sample Receipt Checklist

Client: Resource Control Associates, Inc.

Job Number: 480-57320-1

Login Number: 57320

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No dates listed for samples 25-29. Taken from bottles
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-57320-3

Client Project/Site: 7131A Rhode Island

For:

Resource Control Associates, Inc.

474 Broadway

Pawtucket, Rhode Island 02860

Attn: Ms. Danielle Eastman-Getsinger



Authorized for release by:

4/14/2014 2:43:04 PM

Steve Hartmann, Service Center Manager

(413)572-4000

steve.hartmann@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	12
QC Association Summary	20
Lab Chronicle	23
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	30

Definitions/Glossary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Job ID: 480-57320-3

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-57320-3

Comments

No additional comments.

Receipt

The samples were received on 4/5/2014 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS VOA

Method(s) 8260C: The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for batch 174570 recovered outside control limits for the following analytes: Bromomethane, Dichlorodifluoromethane, Trichlorofluoromethane and Vinyl Chloride. These were not requested spike compounds; therefore, the data have been qualified and reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Client Sample ID: DISPOSAL

Lab Sample ID: 480-57320-29

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl acetate	120		53	25	ug/Kg	1	*	8260C	Total/NA
2-Methylnaphthalene	27	J	200	2.4	ug/Kg	1	*	8270D	Total/NA
Acenaphthene	48	J	200	2.3	ug/Kg	1	*	8270D	Total/NA
Acenaphthylene	40	J	200	1.6	ug/Kg	1	*	8270D	Total/NA
Anthracene	110	J	200	5.0	ug/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	560		200	3.4	ug/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	460		200	4.7	ug/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	710		200	3.8	ug/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	200		200	2.4	ug/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	220		200	2.2	ug/Kg	1	*	8270D	Total/NA
Carbazole	38	J	200	2.3	ug/Kg	1	*	8270D	Total/NA
Chrysene	570		200	2.0	ug/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	70	J	200	2.3	ug/Kg	1	*	8270D	Total/NA
Dibenzofuran	27	J	200	2.0	ug/Kg	1	*	8270D	Total/NA
Fluoranthene	1100		200	2.8	ug/Kg	1	*	8270D	Total/NA
Fluorene	35	J	200	4.5	ug/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	190	J	200	5.4	ug/Kg	1	*	8270D	Total/NA
Naphthalene	95	J	200	3.3	ug/Kg	1	*	8270D	Total/NA
Phenanthrene	530		200	4.1	ug/Kg	1	*	8270D	Total/NA
Pyrene	820		200	1.3	ug/Kg	1	*	8270D	Total/NA
Diesel Range Organics [C10-C28]	21		20	5.9	mg/Kg	1	*	8015D	Total/NA
Arsenic	2.8		2.1	0.42	mg/Kg	1		6010C	Total/NA
Barium	21		0.52	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.053	J	0.21	0.031	mg/Kg	1		6010C	Total/NA
Chromium	370		0.52	0.21	mg/Kg	1		6010C	Total/NA
Lead	49		1.0	0.25	mg/Kg	1		6010C	Total/NA
Selenium	0.49	J	4.2	0.42	mg/Kg	1		6010C	Total/NA
Hg	0.51		0.020	0.0079	mg/Kg	1		7471B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010	Total/NA
pH	5.76		0.100	0.100	SU	1		9045C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Client Sample ID: DISPOSAL

Lab Sample ID: 480-57320-29

Date Collected: 04/03/14 14:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 84.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		53	15	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,1,1,2-Tetrachloroethane	ND		53	8.7	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		53	27	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,1,2-Trichloroethane	ND		53	11	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,1-Dichloroethane	ND		53	17	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,1-Dichloroethene	ND		53	18	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,2,4-Trichlorobenzene	ND		53	20	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,2-Dibromo-3-Chloropropane	ND		53	27	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,2-Dibromoethane	ND		53	9.3	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,2-Dichlorobenzene	ND		53	14	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,2-Dichloroethane	ND		53	22	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,2-Dichloropropane	ND		53	8.7	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,3-Dichlorobenzene	ND		53	14	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
1,4-Dichlorobenzene	ND		53	7.5	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
2-Butanone (MEK)	ND		270	160	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
2-Hexanone	ND		270	110	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
4-Methyl-2-pentanone (MIBK)	ND		270	17	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Acetone	ND		270	220	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Benzene	ND		53	10	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Bromodichloromethane	ND		53	11	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Bromoform	ND		53	27	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Bromomethane	ND	*	53	12	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Carbon disulfide	ND		53	24	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Carbon tetrachloride	ND		53	14	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Chlorobenzene	ND		53	7.1	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Chloroethane	ND		53	11	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Chloroform	ND		53	37	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Chloromethane	ND		53	13	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
cis-1,2-Dichloroethene	ND		53	15	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
cis-1,3-Dichloropropene	ND		53	13	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Cyclohexane	ND		53	12	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Dibromochloromethane	ND		53	26	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Dichlorodifluoromethane	ND	*	53	23	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Ethylbenzene	ND		53	16	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Isopropylbenzene	ND		53	8.0	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Methyl acetate	120		53	25	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Methyl tert-butyl ether	ND		53	20	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Methylcyclohexane	ND		53	25	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Methylene Chloride	ND		53	11	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Styrene	ND		53	13	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Tetrachloroethene	ND		53	7.2	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Toluene	ND		53	14	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
trans-1,2-Dichloroethene	ND		53	13	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
trans-1,3-Dichloropropene	ND		53	5.3	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Trichloroethene	ND		53	15	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Trichlorofluoromethane	ND	*	53	25	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Vinyl chloride	ND	*	53	18	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1
Xylenes, Total	ND		110	9.0	ug/Kg	☼	04/08/14 20:03	04/09/14 12:06	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Client Sample ID: DISPOSAL

Lab Sample ID: 480-57320-29

Date Collected: 04/03/14 14:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 84.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		53 - 146	04/08/14 20:03	04/09/14 12:06	1
4-Bromofluorobenzene (Surr)	97		49 - 148	04/08/14 20:03	04/09/14 12:06	1
Toluene-d8 (Surr)	100		50 - 149	04/08/14 20:03	04/09/14 12:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	43	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2,4,6-Trichlorophenol	ND		200	13	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2,4-Dichlorophenol	ND		200	10	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2,4-Dimethylphenol	ND		200	53	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2,4-Dinitrophenol	ND		380	69	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2,4-Dinitrotoluene	ND		200	30	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2,6-Dinitrotoluene	ND		200	48	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2-Chloronaphthalene	ND		200	13	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2-Chlorophenol	ND		200	10	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2-Methylnaphthalene	27	J	200	2.4	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2-Methylphenol	ND		200	6.0	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2-Nitroaniline	ND		380	63	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
2-Nitrophenol	ND		200	9.0	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
3,3'-Dichlorobenzidine	ND		200	170	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
3-Nitroaniline	ND		380	45	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
4,6-Dinitro-2-methylphenol	ND		380	68	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
4-Bromophenyl phenyl ether	ND		200	62	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
4-Chloro-3-methylphenol	ND		200	8.1	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
4-Chloroaniline	ND		200	58	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
4-Chlorophenyl phenyl ether	ND		200	4.2	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
4-Methylphenol	ND		380	11	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
4-Nitroaniline	ND		380	22	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
4-Nitrophenol	ND		380	48	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Acenaphthene	48	J	200	2.3	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Acenaphthylene	40	J	200	1.6	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Acetophenone	ND		200	10	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Anthracene	110	J	200	5.0	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Atrazine	ND		200	8.7	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Benzaldehyde	ND		200	22	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Benzo[a]anthracene	560		200	3.4	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Benzo[a]pyrene	460		200	4.7	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Benzo[b]fluoranthene	710		200	3.8	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Benzo[g,h,i]perylene	200		200	2.4	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Benzo[k]fluoranthene	220		200	2.2	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Biphenyl	ND		200	12	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
bis (2-chloroisopropyl) ether	ND		200	20	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Bis(2-chloroethoxy)methane	ND		200	11	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Bis(2-chloroethyl)ether	ND		200	17	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Bis(2-ethylhexyl) phthalate	ND		200	63	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Butyl benzyl phthalate	ND		200	53	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Caprolactam	ND		200	85	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Carbazole	38	J	200	2.3	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Chrysene	570		200	2.0	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Dibenz(a,h)anthracene	70	J	200	2.3	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Client Sample ID: DISPOSAL

Lab Sample ID: 480-57320-29

Date Collected: 04/03/14 14:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	27	J	200	2.0	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Diethyl phthalate	ND		200	5.9	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Dimethyl phthalate	ND		200	5.1	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Di-n-butyl phthalate	ND		200	68	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Di-n-octyl phthalate	ND		200	4.6	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Fluoranthene	1100		200	2.8	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Fluorene	35	J	200	4.5	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Hexachlorobenzene	ND		200	9.7	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Hexachlorobutadiene	ND		200	10	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Hexachlorocyclopentadiene	ND		200	59	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Hexachloroethane	ND		200	15	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Indeno[1,2,3-cd]pyrene	190	J	200	5.4	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Isophorone	ND		200	9.8	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Naphthalene	95	J	200	3.3	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Nitrobenzene	ND		200	8.7	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
N-Nitrosodi-n-propylamine	ND		200	16	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
N-Nitrosodiphenylamine	ND		200	11	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Pentachlorophenol	ND		380	67	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Phenanthrene	530		200	4.1	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Phenol	ND		200	21	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1
Pyrene	820		200	1.3	ug/Kg	☼	04/09/14 09:17	04/11/14 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		39 - 146	04/09/14 09:17	04/11/14 13:09	1
2-Fluorobiphenyl	103		37 - 120	04/09/14 09:17	04/11/14 13:09	1
2-Fluorophenol (Surr)	95		18 - 120	04/09/14 09:17	04/11/14 13:09	1
Nitrobenzene-d5 (Surr)	95		34 - 132	04/09/14 09:17	04/11/14 13:09	1
Phenol-d5 (Surr)	95		11 - 120	04/09/14 09:17	04/11/14 13:09	1
p-Terphenyl-d14 (Surr)	98		65 - 153	04/09/14 09:17	04/11/14 13:09	1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	21		20	5.9	mg/Kg	☼	04/09/14 09:42	04/10/14 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		48 - 125	04/09/14 09:42	04/10/14 00:13	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	04/10/14 15:16	04/11/14 22:12	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	04/10/14 15:16	04/11/14 22:12	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	04/10/14 15:16	04/11/14 22:12	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	04/10/14 15:16	04/11/14 22:12	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	04/10/14 15:16	04/11/14 22:12	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	04/10/14 15:16	04/11/14 22:12	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	04/10/14 15:16	04/11/14 22:12	1
PCB-1262	ND		0.23	0.11	mg/Kg	☼	04/10/14 15:16	04/11/14 22:12	1
PCB-1268	ND		0.23	0.11	mg/Kg	☼	04/10/14 15:16	04/11/14 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		46 - 175	04/10/14 15:16	04/11/14 22:12	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Client Sample ID: DISPOSAL

Lab Sample ID: 480-57320-29

Date Collected: 04/03/14 14:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 84.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		47 - 176	04/10/14 15:16	04/11/14 22:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		2.1	0.42	mg/Kg		04/08/14 16:20	04/10/14 12:25	1
Barium	21		0.52	0.11	mg/Kg		04/08/14 16:20	04/10/14 12:25	1
Cadmium	0.053	J	0.21	0.031	mg/Kg		04/08/14 16:20	04/10/14 12:25	1
Chromium	370		0.52	0.21	mg/Kg		04/08/14 16:20	04/10/14 12:25	1
Lead	49		1.0	0.25	mg/Kg		04/08/14 16:20	04/10/14 12:25	1
Selenium	0.49	J	4.2	0.42	mg/Kg		04/08/14 16:20	04/10/14 12:25	1
Silver	ND		0.63	0.21	mg/Kg		04/08/14 16:20	04/10/14 12:25	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.51		0.020	0.0079	mg/Kg		04/09/14 12:00	04/09/14 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	passed		NONE	NONE	mL/100g			04/08/14 18:35	1
Cyanide, Reactive	ND		10	0.0030	mg/Kg		04/10/14 00:30	04/10/14 10:26	1
Sulfide, Reactive	ND		10	0.57	mg/Kg		04/10/14 07:33	04/10/14 08:20	1
Flashpoint	>176.0		50.0	50.0	Degrees F			04/11/14 15:15	1
pH	5.76		0.100	0.100	SU			04/09/14 17:15	1

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (53-146)	BFB (49-148)	TOL (50-149)
480-57320-29	DISPOSAL	101	97	100
LCS 480-174570/1-A	Lab Control Sample	103	96	94
MB 480-174570/2-A	Method Blank	107	101	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (39-146)	FBP (37-120)	2FP (18-120)	NBZ (34-132)	PHL (11-120)	TPH (65-153)
480-57320-29	DISPOSAL	105	103	95	95	95	98
LCS 480-174663/2-A	Lab Control Sample	103	97	84	92	85	102
MB 480-174663/1-A	Method Blank	87	97	86	86	90	105

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTPH (48-125)
480-57320-29	DISPOSAL	90
LCS 480-174686/2-A	Lab Control Sample	91
LCSD 480-174686/3-A	Lab Control Sample Dup	92
MB 480-174686/1-A	Method Blank	86

Surrogate Legend

OTPH = o-Terphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (46-175)	DCB2 (47-176)
480-57320-29	DISPOSAL	106	111
LCS 480-175027/2-A	Lab Control Sample	114	130
MB 480-175027/1-A	Method Blank	104	115

TestAmerica Buffalo

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

1

2

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QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-174570/2-A

Matrix: Solid

Analysis Batch: 174648

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		94	26	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,1,2,2-Tetrachloroethane	ND		94	15	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		94	47	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,1,2-Trichloroethane	ND		94	20	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,1-Dichloroethane	ND		94	29	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,1-Dichloroethene	ND		94	33	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,2,4-Trichlorobenzene	ND		94	36	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,2-Dibromo-3-Chloropropane	ND		94	47	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,2-Dibromoethane	ND		94	16	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,2-Dichlorobenzene	ND		94	24	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,2-Dichloroethane	ND		94	38	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,2-Dichloropropane	ND		94	15	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,3-Dichlorobenzene	ND		94	25	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
1,4-Dichlorobenzene	ND		94	13	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
2-Butanone (MEK)	ND		470	280	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
2-Hexanone	ND		470	190	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
4-Methyl-2-pentanone (MIBK)	ND		470	30	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Acetone	ND		470	390	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Benzene	ND		94	18	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Bromodichloromethane	ND		94	19	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Bromoform	ND		94	47	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Bromomethane	ND		94	21	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Carbon disulfide	ND		94	43	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Carbon tetrachloride	ND		94	24	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Chlorobenzene	ND		94	12	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Chloroethane	ND		94	20	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Chloroform	ND		94	64	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Chloromethane	ND		94	22	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
cis-1,2-Dichloroethene	ND		94	26	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
cis-1,3-Dichloropropene	ND		94	22	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Cyclohexane	ND		94	21	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Dibromochloromethane	ND		94	45	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Dichlorodifluoromethane	ND		94	41	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Ethylbenzene	ND		94	27	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Isopropylbenzene	ND		94	14	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Methyl acetate	ND		94	45	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Methyl tert-butyl ether	ND		94	36	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Methylcyclohexane	ND		94	44	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Methylene Chloride	ND		94	19	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Styrene	ND		94	23	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Tetrachloroethene	ND		94	13	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Toluene	ND		94	25	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
trans-1,2-Dichloroethene	ND		94	22	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
trans-1,3-Dichloropropene	ND		94	9.2	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Trichloroethene	ND		94	26	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Trichlorofluoromethane	ND		94	44	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Vinyl chloride	ND		94	31	ug/Kg		04/08/14 20:03	04/09/14 11:30	1
Xylenes, Total	ND		190	16	ug/Kg		04/08/14 20:03	04/09/14 11:30	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-174570/2-A
Matrix: Solid
Analysis Batch: 174648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174570

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		53 - 146	04/08/14 20:03	04/09/14 11:30	1
4-Bromofluorobenzene (Surr)	101		49 - 148	04/08/14 20:03	04/09/14 11:30	1
Toluene-d8 (Surr)	99		50 - 149	04/08/14 20:03	04/09/14 11:30	1

Lab Sample ID: LCS 480-174570/1-A
Matrix: Solid
Analysis Batch: 174648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
1,1-Dichloroethane	2490	2210		ug/Kg		89	82 - 138	
1,1-Dichloroethene	2490	1830		ug/Kg		73	54 - 144	
1,2-Dichlorobenzene	2490	2420		ug/Kg		97	80 - 132	
1,2-Dichloroethane	2490	2290		ug/Kg		92	78 - 129	
Benzene	2490	2220		ug/Kg		89	75 - 131	
Chlorobenzene	2490	2290		ug/Kg		92	80 - 127	
cis-1,2-Dichloroethene	2490	2210		ug/Kg		89	79 - 128	
Ethylbenzene	2490	2220		ug/Kg		89	78 - 136	
Methyl tert-butyl ether	2490	2400		ug/Kg		97	67 - 137	
Tetrachloroethene	2490	2110		ug/Kg		85	72 - 141	
Toluene	2490	2100		ug/Kg		84	76 - 133	
trans-1,2-Dichloroethene	2490	2000		ug/Kg		81	81 - 147	
Trichloroethene	2490	2110		ug/Kg		85	77 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		53 - 146
4-Bromofluorobenzene (Surr)	96		49 - 148
Toluene-d8 (Surr)	94		50 - 149

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-174663/1-A
Matrix: Solid
Analysis Batch: 175108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174663

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4,5-Trichlorophenol	ND		170	36	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4-Dichlorophenol	ND		170	8.7	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4-Dimethylphenol	ND		170	45	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4-Dinitrophenol	ND		330	58	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,4-Dinitrotoluene	ND		170	26	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2,6-Dinitrotoluene	ND		170	41	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Chloronaphthalene	ND		170	11	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Chlorophenol	ND		170	8.5	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Methylnaphthalene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Methylphenol	ND		170	5.1	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
2-Nitroaniline	ND		330	53	ug/Kg		04/09/14 09:17	04/11/14 10:41	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-174663/1-A

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174663

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitrophenol	ND		170	7.6	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
3-Nitroaniline	ND		330	38	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4,6-Dinitro-2-methylphenol	ND		330	58	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Bromophenyl phenyl ether	ND		170	53	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Chloro-3-methylphenol	ND		170	6.9	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Chloroaniline	ND		170	49	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Methylphenol	ND		330	9.3	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Nitroaniline	ND		330	19	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
4-Nitrophenol	ND		330	40	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Acenaphthene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Acenaphthylene	ND		170	1.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Acetophenone	ND		170	8.6	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Anthracene	ND		170	4.3	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Atrazine	ND		170	7.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzaldehyde	ND		170	18	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[a]anthracene	ND		170	2.9	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[a]pyrene	ND		170	4.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[b]fluoranthene	ND		170	3.2	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[g,h,i]perylene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Benzo[k]fluoranthene	ND		170	1.8	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Biphenyl	ND		170	10	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
bis (2-chloroisopropyl) ether	ND		170	17	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Bis(2-chloroethoxy)methane	ND		170	9.1	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Bis(2-chloroethyl)ether	ND		170	14	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Bis(2-ethylhexyl) phthalate	ND		170	54	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Butyl benzyl phthalate	ND		170	45	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Caprolactam	ND		170	72	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Carbazole	ND		170	1.9	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Chrysene	ND		170	1.7	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Dibenzofuran	ND		170	1.7	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Diethyl phthalate	ND		170	5.0	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Dimethyl phthalate	ND		170	4.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Di-n-butyl phthalate	ND		170	58	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Di-n-octyl phthalate	ND		170	3.9	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Fluoranthene	ND		170	2.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Fluorene	ND		170	3.8	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Hexachlorobenzene	ND		170	8.3	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Hexachlorobutadiene	ND		170	8.5	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Hexachlorocyclopentadiene	ND		170	50	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Hexachloroethane	ND		170	13	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Indeno[1,2,3-cd]pyrene	ND		170	4.6	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Isophorone	ND		170	8.3	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Naphthalene	ND		170	2.8	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Nitrobenzene	ND		170	7.4	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg		04/09/14 09:17	04/11/14 10:41	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-174663/1-A

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		170	9.1	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Pentachlorophenol	ND		330	57	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Phenanthrene	ND		170	3.5	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Phenol	ND		170	18	ug/Kg		04/09/14 09:17	04/11/14 10:41	1
Pyrene	ND		170	1.1	ug/Kg		04/09/14 09:17	04/11/14 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		39 - 146	04/09/14 09:17	04/11/14 10:41	1
2-Fluorobiphenyl	97		37 - 120	04/09/14 09:17	04/11/14 10:41	1
2-Fluorophenol (Surr)	86		18 - 120	04/09/14 09:17	04/11/14 10:41	1
Nitrobenzene-d5 (Surr)	86		34 - 132	04/09/14 09:17	04/11/14 10:41	1
Phenol-d5 (Surr)	90		11 - 120	04/09/14 09:17	04/11/14 10:41	1
p-Terphenyl-d14 (Surr)	105		65 - 153	04/09/14 09:17	04/11/14 10:41	1

Lab Sample ID: LCS 480-174663/2-A

Matrix: Solid

Analysis Batch: 175108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 174663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	3240	3320		ug/Kg		102	55 - 125
2-Chlorophenol	3240	2670		ug/Kg		82	38 - 120
4-Chloro-3-methylphenol	3240	3230		ug/Kg		99	49 - 125
4-Nitrophenol	6490	7170		ug/Kg		110	43 - 137
Acenaphthene	3240	3140		ug/Kg		97	53 - 120
Atrazine	3240	3220		ug/Kg		99	60 - 164
Bis(2-ethylhexyl) phthalate	3240	3300		ug/Kg		102	61 - 133
Fluorene	3240	3180		ug/Kg		98	63 - 126
Hexachloroethane	3240	2570		ug/Kg		79	41 - 120
N-Nitrosodi-n-propylamine	3240	2790		ug/Kg		86	46 - 120
Pentachlorophenol	6490	6570		ug/Kg		101	33 - 136
Phenol	3240	2680		ug/Kg		83	36 - 120
Pyrene	3240	3170		ug/Kg		98	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	103		39 - 146
2-Fluorobiphenyl	97		37 - 120
2-Fluorophenol (Surr)	84		18 - 120
Nitrobenzene-d5 (Surr)	92		34 - 132
Phenol-d5 (Surr)	85		11 - 120
p-Terphenyl-d14 (Surr)	102		65 - 153

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-174686/1-A
Matrix: Solid
Analysis Batch: 174716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		04/09/14 09:42	04/09/14 19:09	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	86		48 - 125				04/09/14 09:42	04/09/14 19:09	1

Lab Sample ID: LCS 480-174686/2-A
Matrix: Solid
Analysis Batch: 174716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]	49.9	43.4		mg/Kg		87	63 - 127		
Surrogate	%Recovery	LCS Qualifier	Limits						
<i>o</i> -Terphenyl	91		48 - 125						

Lab Sample ID: LCSD 480-174686/3-A
Matrix: Solid
Analysis Batch: 174716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	49.2	42.8		mg/Kg		87	63 - 127	1	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	92		48 - 125						

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-175027/1-A
Matrix: Solid
Analysis Batch: 175178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 175027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1221	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1232	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1242	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1248	ND		0.21	0.040	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1254	ND		0.21	0.096	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1260	ND		0.21	0.096	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1262	ND		0.21	0.096	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
PCB-1268	ND		0.21	0.096	mg/Kg		04/10/14 15:16	04/11/14 19:01	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	104		46 - 175				04/10/14 15:16	04/11/14 19:01	1
DCB Decachlorobiphenyl	115		47 - 176				04/10/14 15:16	04/11/14 19:01	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-175027/2-A

Matrix: Solid

Analysis Batch: 175178

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 175027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.27	2.93		mg/Kg		129	51 - 185
PCB-1260	2.27	3.20		mg/Kg		141	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	114		46 - 175
DCB Decachlorobiphenyl	130		47 - 176

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-174370/1-A

Matrix: Solid

Analysis Batch: 175136

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.9	0.39	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Barium	ND		0.48	0.11	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Cadmium	ND		0.19	0.029	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Chromium	ND		0.48	0.19	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Lead	ND		0.97	0.23	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Selenium	ND		3.9	0.39	mg/Kg		04/08/14 16:20	04/10/14 11:29	1
Silver	ND		0.58	0.19	mg/Kg		04/08/14 16:20	04/10/14 11:29	1

Lab Sample ID: LCSSRM 480-174370/2-A

Matrix: Solid

Analysis Batch: 175136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 174370

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	88.6	86.6		mg/Kg		97.7	69.0 - 131.2
Barium	210	194		mg/Kg		92.3	73.3 - 126.7
Cadmium	143	132		mg/Kg		92.4	72.7 - 127.3
Chromium	87.0	80.2		mg/Kg		92.3	69.1 - 131.3
Lead	98.1	97.1		mg/Kg		99.0	70.8 - 128.7
Selenium	127	122		mg/Kg		95.5	66.6 - 133.9
Silver	66.3	62.9		mg/Kg		94.8	67.1 - 132.9

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-174619/1-A
Matrix: Solid
Analysis Batch: 174789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.018	0.0074	mg/Kg		04/09/14 12:00	04/09/14 15:17	1

Lab Sample ID: LCSSRM 480-174619/2-A
Matrix: Solid
Analysis Batch: 174789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174619

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	3.77	3.44		mg/Kg		91.2	50.9 - 149.1

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-175100/1
Matrix: Solid
Analysis Batch: 175100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	81.00		Degrees F		100	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-174856/1-A
Matrix: Solid
Analysis Batch: 174966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	0.0030	mg/Kg		04/10/14 00:30	04/10/14 10:26	1

Lab Sample ID: LCS 480-174856/2-A
Matrix: Solid
Analysis Batch: 174966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	203		mg/Kg		20	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-174864/1-A
Matrix: Solid
Analysis Batch: 174962

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10	0.57	mg/Kg		04/10/14 07:33	04/10/14 08:20	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method: 9034 - Sulfide, Reactive (Continued)

Lab Sample ID: LCS 480-174864/2-A
Matrix: Solid
Analysis Batch: 174962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	1000	822		mg/Kg		82	10 - 100

Method: 9045C - pH

Lab Sample ID: LCS 480-174815/1
Matrix: Solid
Analysis Batch: 174815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.020		SU		100	99 - 101

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

GC/MS VOA

Prep Batch: 174570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	5035A	
LCS 480-174570/1-A	Lab Control Sample	Total/NA	Solid	5035A	
MB 480-174570/2-A	Method Blank	Total/NA	Solid	5035A	

Analysis Batch: 174648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	8260C	174570
LCS 480-174570/1-A	Lab Control Sample	Total/NA	Solid	8260C	174570
MB 480-174570/2-A	Method Blank	Total/NA	Solid	8260C	174570

GC/MS Semi VOA

Prep Batch: 174663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	3550C	
LCS 480-174663/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-174663/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 175108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	8270D	174663
LCS 480-174663/2-A	Lab Control Sample	Total/NA	Solid	8270D	174663
MB 480-174663/1-A	Method Blank	Total/NA	Solid	8270D	174663

GC Semi VOA

Prep Batch: 174686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	3550C	
LCS 480-174686/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-174686/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 480-174686/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 174716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	8015D	174686
LCS 480-174686/2-A	Lab Control Sample	Total/NA	Solid	8015D	174686
LCSD 480-174686/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	174686
MB 480-174686/1-A	Method Blank	Total/NA	Solid	8015D	174686

Prep Batch: 175027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	3550C	
LCS 480-175027/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-175027/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 175178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	8082A	175027
LCS 480-175027/2-A	Lab Control Sample	Total/NA	Solid	8082A	175027

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

GC Semi VOA (Continued)

Analysis Batch: 175178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-175027/1-A	Method Blank	Total/NA	Solid	8082A	175027

Metals

Prep Batch: 174370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	3050B	
LCSSRM 480-174370/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-174370/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 174619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	7471B	
LCSSRM 480-174619/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-174619/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 174789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	7471B	174619
LCSSRM 480-174619/2-A	Lab Control Sample	Total/NA	Solid	7471B	174619
MB 480-174619/1-A	Method Blank	Total/NA	Solid	7471B	174619

Analysis Batch: 175136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	6010C	174370
LCSSRM 480-174370/2-A	Lab Control Sample	Total/NA	Solid	6010C	174370
MB 480-174370/1-A	Method Blank	Total/NA	Solid	6010C	174370

General Chemistry

Analysis Batch: 174093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	Moisture	

Analysis Batch: 174566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	9095B	

Analysis Batch: 174815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	9045C	
LCS 480-174815/1	Lab Control Sample	Total/NA	Solid	9045C	

Prep Batch: 174856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	7.3.3	
LCS 480-174856/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
MB 480-174856/1-A	Method Blank	Total/NA	Solid	7.3.3	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

General Chemistry (Continued)

Prep Batch: 174864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	7.3.4	
LCS 480-174864/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
MB 480-174864/1-A	Method Blank	Total/NA	Solid	7.3.4	

Analysis Batch: 174962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	9034	174864
LCS 480-174864/2-A	Lab Control Sample	Total/NA	Solid	9034	174864
MB 480-174864/1-A	Method Blank	Total/NA	Solid	9034	174864

Analysis Batch: 174966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	9012	174856
LCS 480-174856/2-A	Lab Control Sample	Total/NA	Solid	9012	174856
MB 480-174856/1-A	Method Blank	Total/NA	Solid	9012	174856

Analysis Batch: 175100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57320-29	DISPOSAL	Total/NA	Solid	1010	
LCS 480-175100/1	Lab Control Sample	Total/NA	Solid	1010	

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Client Sample ID: DISPOSAL

Lab Sample ID: 480-57320-29

Date Collected: 04/03/14 14:20

Matrix: Solid

Date Received: 04/05/14 02:00

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			174570	04/08/14 20:03	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	174648	04/09/14 12:06	NMD1	TAL BUF
Total/NA	Prep	3550C			174663	04/09/14 09:17	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175108	04/11/14 13:09	HTL	TAL BUF
Total/NA	Prep	3550C			174686	04/09/14 09:42	CAM	TAL BUF
Total/NA	Analysis	8015D		1	174716	04/10/14 00:13	DLE	TAL BUF
Total/NA	Prep	3550C			175027	04/10/14 15:16	JRL	TAL BUF
Total/NA	Analysis	8082A		1	175178	04/11/14 22:12	JMM	TAL BUF
Total/NA	Prep	3050B			174370	04/08/14 16:20	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175136	04/10/14 12:25	LMH	TAL BUF
Total/NA	Prep	7471B			174619	04/09/14 12:00	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174789	04/09/14 16:06	LRK	TAL BUF
Total/NA	Analysis	1010		1	175100	04/11/14 15:15	JMB	TAL BUF
Total/NA	Prep	7.3.3			174856	04/10/14 00:30	LAW	TAL BUF
Total/NA	Analysis	9012		1	174966	04/10/14 10:26	LAW	TAL BUF
Total/NA	Prep	7.3.4			174864	04/10/14 07:33	LAW	TAL BUF
Total/NA	Analysis	9034		1	174962	04/10/14 08:20	LAW	TAL BUF
Total/NA	Analysis	9045C		1	174815	04/09/14 17:15	EGS	TAL BUF
Total/NA	Analysis	9095B		1	174566	04/08/14 18:35	KJ1	TAL BUF
Total/NA	Analysis	Moisture		1	174093	04/05/14 13:49	CMK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Rhode Island	State Program	1	LAO00328	12-30-14

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Method Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045C	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Resource Control Associates, Inc.
Project/Site: 7131A Rhode Island

TestAmerica Job ID: 480-57320-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57320-29	DISPOSAL	Solid	04/03/14 14:20	04/05/14 02:00

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Signature on Receipt

Later? Yes No

Chain of Custody Record

480-57320 Chain of Custody

TAL-4124 (1007)

Client: **Resource Control Associates** Chain of Custody Number: **261773**
 Address: **47th Broadway** Lab Number: **4/3/14**
 City: **Pawtucket** State: **RI** Zip Code: **02860** Page: **1** of **3**
 Project Name and Location (State): **731A Rhode Island**

Project Manager: **Danville Gotsinger** Date: **4/3/14**
 Telephone Number (Area Code)/Fax Number: **(401) 786-6560** Lab Number: **4/3/14**
 Site Contact: _____ Lab Contact: _____
 Carrier/Maybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	Soil	Sed.	Sludge	Water	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH	
TP-1 (25-3.5)	4/8/14	1150		X												
TN composite		1155		X												
S-101		1201		X												
S-102		1201		X												
S-103		1201		X												
S-104		1201		X												
S-105		1201		X												
S-106		1201		X												
S-107		1201		X												
S-108		1201		X												
S-109		1201		X												
S-110		1201		X												

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Other

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required	24 Hours	48 Hours	7 Days	14 Days	21 Days	Other
1. Relinquished By	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Relinquished By	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Relinquished By	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

QC Requirements (Specify):
 1. Received By: **[Signature]** Date: **4-4-14** Time: **1245**
 2. Received By: **[Signature]** Date: **4-5-14** Time: **1200**
 3. Received By: _____ Date: _____ Time: _____

Comments: **4. f-#1**

TestAmerica

Temperature on Receipt _____

THE LEADER IN ENVIRONMENTAL TESTING

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Resane Control Associates** Project Manager: **Danielle Giesinger** Date: **4/3/14** Chain of Custody Number: **261764**
 Address: **174 Broadway** Telephone Number (Area Code)/Fax Number: **(401) 788-6860** Lab Number: _____ Page **2** of **3**
 City: **Pawtucket** State: **RI** Zip Code: **02860** Site Contact: _____ Lab Contact: _____

Project Name and Location (State): **731A Barrington, RI** Carrier/Maybill Number: _____
 Contract/Purchase Order/Quote No.: _____
 Analysis (Attach list if more space is needed):
 REPA's metals: _____
 Asbestos only: _____
 PAH: _____
 TPH: _____
 VOC: _____
 MA: _____
 disposal: _____
 Special Instructions/Conditions of Receipt: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives						Special Instructions/Conditions of Receipt				
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH			
S-111	4/2/14	1403			X											
S-112	4/3/14	1404			X											
TP-2 (2'-2.5')	4/3/14	0915			X											
TP-2 (4'-8')		0920			X											
TP-3 (5'-5.5')		1000			X											
TP-3 (2'-2.5')		1005			X											
TP-4 (1.5'-2')		1125			X											
TP-4 (3')		1130			X											
TP-5 (1.5'-2.5')		1150			X											
TP-5 (4'-4.5')		1155			X											
TP-6 (1.5'-2')		1211			X											
TP-6 (3.5')		1220			X											

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____
 1. Relinquished By: **Jerry Deah** Date: **4/4/14** Time: **12:15**
 2. Relinquished By: **Jerry Deah** Date: **4/4/14** Time: **15:50**
 3. Relinquished By: _____ Date: _____ Time: _____
 1. Received By: _____ Date: **4-4-14** Time: **12:15**
 2. Received By: _____ Date: **4-5-14** Time: **2:20**
 3. Received By: _____ Date: _____ Time: _____

Comments: **4. f t t l**



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Resource Control Associates**
 Address: **474 Broadway**
 City: **Pawtucket** State: **RI** Zip Code: **02860**
 Project Name and Location (State): **7131A Pawtucket, RI**
 Contract/Purchase Order/Quote No. _____

Project Manager: **Danville Gekkingen**
 Telephone Number (Area Code)/Fax Number: **(401) 786-6860**
 Site Contact: _____ Lab Contact: _____
 Carrier/Maybill Number: _____

Chain of Custody Number: **261765**

Date: **4/3/14**

Page **3** of **3**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/ NaOH
TP-7 (2.5')		1255			X									
TP-8 (1-2')		1300			X									
TP-8 (6')		1305			X									
TP-9 (5.5-6')		1400			X									
Disposal		1420			X									

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
<i>[Signature]</i>	4/4/14	1505	<i>[Signature]</i>	4-4-14	1245
2. Relinquished By	Date	Time	2. Received By	Date	Time
<i>[Signature]</i>	4-8-14	1500	<i>[Signature]</i>	4-5-14	0200
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: **4. 8 #1**



Login Sample Receipt Checklist

Client: Resource Control Associates, Inc.

Job Number: 480-57320-3

Login Number: 57320

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No dates listed for samples 25-29. Taken from bottles
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-60422-1

Client Project/Site: Bay Spring Realty CO / 7131A

For:

Resource Control Associates, Inc.

474 Broadway

Pawtucket, Rhode Island 02860

Attn: Ms. Danielle Eastman-Getsinger



Authorized for release by:

6/3/2014 3:08:43 PM

Rich Emerich, Analyst V

rich.emerich@testamericainc.com

Designee for

Steve Hartmann, Service Center Manager

(413)572-4000

steve.hartmann@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

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6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	15
Surrogate Summary	42
QC Sample Results	44
QC Association Summary	60
Lab Chronicle	68
Certification Summary	77
Method Summary	78
Sample Summary	79
Chain of Custody	80
Receipt Checklists	84

Definitions/Glossary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Job ID: 480-60422-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 5/23/2014 at 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.6° C.

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for batch 183935 recovered outside control limits for the following analyte: Chloroethane. This analyte was not a requested spike compound so the data have been qualified and reported.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Cistern Disposal (480-60422-31). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to the nature of the sample matrix : (480-60422-31 MS), (480-60422-31 MSD) and Cistern Disposal (480-60422-31). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 183839 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: S-212 (480-60422-12) and S-213 (480-60422-13). Elevated reporting limits (RLs) are provided.

Method 8270D: Internal standard responses were outside of acceptance limits for the following samples: TP-104 (2-3') (480-60422-23), TP-104 (4) (480-60422-24), TP-105 (10') (480-60422-26), TP-105 (4-5') (480-60422-25), TP-106 (10) (480-60422-28), TP-106 (4-5') (480-60422-27), TP-107 (10') (480-60422-30) and TP-107 (5-5.5) (480-60422-29). The samples shows evidence of matrix interference. There were no detections for any target analytes associated with the failing internal standards, therefore the data has been reported.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: TP-103 (4') (480-60422-22). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 184350 recovered above the upper control limit for 2,4-Dinitrophenol. The samples associated with this CCV were non-detects for the affected analytes so the data have been reported. The following sample was impacted: (CCVIS 480-184350/3).

Method 8270D: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 183840 recovered outside control limits for the following analytes: Benzo(g,h,i)perylene and Indeno[1,2,3-cd]pyrene. This method allows for 3 analytes to recover outside of the control limits so re-extraction/re-analysis was not performed.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 183840 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The continuing calibration verification (CCV) associated with batch 184383 recovered above the upper control limit for 2,4-Dinitrophenol and Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample was impacted: (CCV 480-184383/4), (CCVIS 480-184383/3).

Method 8270D: The following sample was diluted due to the abundance of target analytes: Cistern Disposal (480-60422-31). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Job ID: 480-60422-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

GC Semi VOA

Method 8015D: The following samples were diluted due to the abundance of target analytes: Cistern Disposal (480-60422-31). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010C: The low level continuing calibration verification (CCVL 480-184551/60) recovered above the upper control limit for barium. The sample TP-107 (10') (480-60422-30) associated with this CCVL contained this analyte at a concentration greater than 10X the value found in the CCVL so re-analysis of samples was not performed.

Method 6010C: The following sample was diluted to bring the concentration of target analyte chromium within the calibration range: S-212 (480-60422-12). Elevated reporting limits (RLs) are provided.

Method 7471B: The following sample was diluted to bring the concentration of the target analyte total mercury within the calibration range: S-212 (480-60422-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: Cistern Disposal (480-60422-31). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-201

Lab Sample ID: 480-60422-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	4.2	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	6.2	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	4.1	J	190	1.5	ug/Kg	1	☼	8270D	Total/NA
Anthracene	11	J	190	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	56	J	190	3.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	56	J	190	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	77	J	190	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	31	J	190	2.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	69	J	190	1.9	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	29	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	120	J	190	2.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	77	J	190	5.1	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	8.1	J	190	3.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	81	J	190	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	150	J	190	1.2	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: S-202

Lab Sample ID: 480-60422-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	3.1	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene	7.6	J	190	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26	J	190	3.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	18	J	190	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	23	J	190	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	31	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	12	J	190	2.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	25	J	190	1.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	42	J	190	2.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	19	J	190	5.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	34	J	190	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	51	J	190	1.2	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: S-203

Lab Sample ID: 480-60422-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	13	J	190	3.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	190	2.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	12	J	190	1.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	18	J	190	2.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	12	J	190	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	25	J	190	1.2	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: S-204

Lab Sample ID: 480-60422-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	3.5	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene	10	J	190	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	43	J	190	3.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	34	J	190	4.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-204 (Continued)

Lab Sample ID: 480-60422-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	45	J	190	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	31	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	23	J	190	2.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	54	J	190	1.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	87	J	190	2.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	27	J	190	5.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	64	J	190	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	110	J	190	1.2	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: S-205

Lab Sample ID: 480-60422-5

No Detections.

Client Sample ID: S-206

Lab Sample ID: 480-60422-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	10	J	180	3.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	9.0	J	180	1.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	12	J	180	2.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	4.6	J	180	3.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	14	J	180	1.1	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: S-207

Lab Sample ID: 480-60422-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	15	J	180	3.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	16	J	180	1.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	23	J	180	2.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	10	J	180	3.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	25	J	180	1.2	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: S-208

Lab Sample ID: 480-60422-8

No Detections.

Client Sample ID: S-209

Lab Sample ID: 480-60422-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	20	J	180	3.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	22	J	180	3.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	10	J	180	2.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	22	J	180	1.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	35	J	180	2.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	17	J	180	3.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	40	J	180	1.2	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: S-210

Lab Sample ID: 480-60422-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-211

Lab Sample ID: 480-60422-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.71	J	2.0	0.40	mg/Kg	1		6010C	Total/NA
Barium	5.5		0.50	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.044	J	0.20	0.030	mg/Kg	1		6010C	Total/NA
Chromium	20		0.50	0.20	mg/Kg	1		6010C	Total/NA
Lead	1.1		0.99	0.24	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-212

Lab Sample ID: 480-60422-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	120	J	2900	73	ug/Kg	10	*	8270D	Total/NA
Benzo[a]anthracene	580	J	2900	49	ug/Kg	10	*	8270D	Total/NA
Benzo[a]pyrene	1000	J	2900	69	ug/Kg	10	*	8270D	Total/NA
Benzo[b]fluoranthene	980	J	2900	55	ug/Kg	10	*	8270D	Total/NA
Benzo[g,h,i]perylene	1300	J	2900	34	ug/Kg	10	*	8270D	Total/NA
Benzo[k]fluoranthene	400	J	2900	31	ug/Kg	10	*	8270D	Total/NA
Chrysene	780	J	2900	28	ug/Kg	10	*	8270D	Total/NA
Dibenz(a,h)anthracene	690	J	2900	33	ug/Kg	10	*	8270D	Total/NA
Fluoranthene	900	J	2900	41	ug/Kg	10	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	910	J	2900	79	ug/Kg	10	*	8270D	Total/NA
Phenanthrene	610	J	2900	60	ug/Kg	10	*	8270D	Total/NA
Pyrene	880	J	2900	18	ug/Kg	10	*	8270D	Total/NA
Arsenic	14		2.0	0.41	mg/Kg	1		6010C	Total/NA
Barium	180		0.51	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	1.6		0.20	0.031	mg/Kg	1		6010C	Total/NA
Chromium	5400		5.1	2.0	mg/Kg	10		6010C	Total/NA
Lead	730		1.0	0.24	mg/Kg	1		6010C	Total/NA
Selenium	2.3	J	4.1	0.41	mg/Kg	1		6010C	Total/NA
Silver	0.64		0.61	0.20	mg/Kg	1		6010C	Total/NA
Hg	1.3		0.10	0.042	mg/Kg	5		7471B	Total/NA

Client Sample ID: S-213

Lab Sample ID: 480-60422-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	73	J	2000	24	ug/Kg	10	*	8270D	Total/NA
Acenaphthene	220	J	2000	23	ug/Kg	10	*	8270D	Total/NA
Anthracene	540	J	2000	51	ug/Kg	10	*	8270D	Total/NA
Benzo[a]anthracene	1500	J	2000	35	ug/Kg	10	*	8270D	Total/NA
Benzo[a]pyrene	1200	J	2000	48	ug/Kg	10	*	8270D	Total/NA
Benzo[b]fluoranthene	1700	J	2000	39	ug/Kg	10	*	8270D	Total/NA
Benzo[g,h,i]perylene	890	J	2000	24	ug/Kg	10	*	8270D	Total/NA
Benzo[k]fluoranthene	690	J	2000	22	ug/Kg	10	*	8270D	Total/NA
Chrysene	1700	J	2000	20	ug/Kg	10	*	8270D	Total/NA
Dibenz(a,h)anthracene	320	J	2000	24	ug/Kg	10	*	8270D	Total/NA
Fluoranthene	3400		2000	29	ug/Kg	10	*	8270D	Total/NA
Fluorene	220	J	2000	46	ug/Kg	10	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	870	J	2000	55	ug/Kg	10	*	8270D	Total/NA
Naphthalene	180	J	2000	33	ug/Kg	10	*	8270D	Total/NA
Phenanthrene	2500		2000	42	ug/Kg	10	*	8270D	Total/NA
Pyrene	3000		2000	13	ug/Kg	10	*	8270D	Total/NA
Arsenic	4.9		2.0	0.40	mg/Kg	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-213 (Continued)

Lab Sample ID: 480-60422-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	210		0.51	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.16	J	0.20	0.030	mg/Kg	1		6010C	Total/NA
Chromium	1100		0.51	0.20	mg/Kg	1		6010C	Total/NA
Lead	2800		1.0	0.24	mg/Kg	1		6010C	Total/NA
Selenium	1.0	J	4.0	0.40	mg/Kg	1		6010C	Total/NA
Hg	0.18		0.020	0.0081	mg/Kg	1		7471B	Total/NA

Client Sample ID: S-214

Lab Sample ID: 480-60422-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	37	J	210	2.5	ug/Kg	1	*	8270D	Total/NA
Acenaphthene	44	J	210	2.4	ug/Kg	1	*	8270D	Total/NA
Acenaphthylene	42	J	210	1.7	ug/Kg	1	*	8270D	Total/NA
Anthracene	100	J	210	5.3	ug/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	540		210	3.6	ug/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	470		210	5.0	ug/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	690		210	4.0	ug/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	310		210	2.5	ug/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	240		210	2.3	ug/Kg	1	*	8270D	Total/NA
Chrysene	710		210	2.1	ug/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	84	J	210	2.4	ug/Kg	1	*	8270D	Total/NA
Fluoranthene	1300		210	3.0	ug/Kg	1	*	8270D	Total/NA
Fluorene	46	J	210	4.8	ug/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	300		210	5.7	ug/Kg	1	*	8270D	Total/NA
Naphthalene	35	J	210	3.5	ug/Kg	1	*	8270D	Total/NA
Phenanthrene	820		210	4.4	ug/Kg	1	*	8270D	Total/NA
Pyrene	1300		210	1.3	ug/Kg	1	*	8270D	Total/NA
Arsenic	5.3		2.0	0.39	mg/Kg	1		6010C	Total/NA
Barium	46		0.49	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.076	J	0.20	0.030	mg/Kg	1		6010C	Total/NA
Chromium	7.1		0.49	0.20	mg/Kg	1		6010C	Total/NA
Lead	51		0.99	0.24	mg/Kg	1		6010C	Total/NA
Selenium	0.76	J	3.9	0.39	mg/Kg	1		6010C	Total/NA
Hg	0.059		0.020	0.0082	mg/Kg	1		7471B	Total/NA

Client Sample ID: S-215

Lab Sample ID: 480-60422-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	23	J	190	2.2	ug/Kg	1	*	8270D	Total/NA
Acenaphthene	4.3	J	190	2.2	ug/Kg	1	*	8270D	Total/NA
Acenaphthylene	4.8	J	190	1.5	ug/Kg	1	*	8270D	Total/NA
Anthracene	15	J	190	4.8	ug/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	50	J	190	4.5	ug/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	130	J	190	3.6	ug/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	85	J	190	2.2	ug/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	24	J	190	2.0	ug/Kg	1	*	8270D	Total/NA
Chrysene	140	J	190	1.9	ug/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	26	J	190	2.2	ug/Kg	1	*	8270D	Total/NA
Fluoranthene	110	J	190	2.7	ug/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	71	J	190	5.1	ug/Kg	1	*	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-215 (Continued)

Lab Sample ID: 480-60422-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	21	J	190	3.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120	J	190	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	110	J	190	1.2	ug/Kg	1	☼	8270D	Total/NA
Arsenic	29		1.8	0.37	mg/Kg	1		6010C	Total/NA
Barium	45		0.46	0.10	mg/Kg	1		6010C	Total/NA
Cadmium	0.21		0.18	0.027	mg/Kg	1		6010C	Total/NA
Chromium	9.8		0.46	0.18	mg/Kg	1		6010C	Total/NA
Lead	22		0.91	0.22	mg/Kg	1		6010C	Total/NA
Selenium	7.3		3.7	0.37	mg/Kg	1		6010C	Total/NA
Hg	0.089		0.021	0.0084	mg/Kg	1		7471B	Total/NA

Client Sample ID: S-216

Lab Sample ID: 480-60422-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	3.3	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene	6.7	J	190	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	47	J	190	3.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	37	J	190	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	56	J	190	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	27	J	190	2.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	21	J	190	2.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	57	J	190	1.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	100	J	190	2.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	26	J	190	5.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	55	J	190	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100	J	190	1.2	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.8	J	2.1	0.42	mg/Kg	1		6010C	Total/NA
Barium	8.7		0.53	0.12	mg/Kg	1		6010C	Total/NA
Chromium	220		0.53	0.21	mg/Kg	1		6010C	Total/NA
Lead	5.9		1.1	0.25	mg/Kg	1		6010C	Total/NA
Hg	0.024		0.020	0.0082	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-101 (5-5.5')

Lab Sample ID: 480-60422-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.8	J	200	2.4	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	4.2	J	200	2.3	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	22	J B	200	3.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	8.8	J	200	4.1	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.1	J	1.9	0.39	mg/Kg	1		6010C	Total/NA
Barium	7.1		0.49	0.11	mg/Kg	1		6010C	Total/NA
Chromium	1.3		0.49	0.19	mg/Kg	1		6010C	Total/NA
Lead	1.2		0.97	0.23	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-101 (10')

Lab Sample ID: 480-60422-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.0	J	2.0	0.40	mg/Kg	1		6010C	Total/NA
Barium	7.0		0.50	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.040	J	0.20	0.030	mg/Kg	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-101 (10') (Continued)

Lab Sample ID: 480-60422-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1.4		0.50	0.20	mg/Kg	1		6010C	Total/NA
Lead	1.1		1.0	0.24	mg/Kg	1		6010C	Total/NA
Selenium	0.40	J	4.0	0.40	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-102 (4-5')

Lab Sample ID: 480-60422-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.3	J	2.0	0.40	mg/Kg	1		6010C	Total/NA
Barium	11		0.50	0.11	mg/Kg	1		6010C	Total/NA
Chromium	2.1		0.50	0.20	mg/Kg	1		6010C	Total/NA
Lead	1.5		1.0	0.24	mg/Kg	1		6010C	Total/NA
Selenium	0.48	J	4.0	0.40	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-102 (9.5')

Lab Sample ID: 480-60422-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.90	J	1.9	0.39	mg/Kg	1		6010C	Total/NA
Barium	6.3		0.48	0.11	mg/Kg	1		6010C	Total/NA
Chromium	1.4		0.48	0.19	mg/Kg	1		6010C	Total/NA
Lead	0.80	J	0.97	0.23	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-103 (2-3')

Lab Sample ID: 480-60422-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	10	J	190	2.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	6.7	J	190	3.9	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.0	J	2.1	0.42	mg/Kg	1		6010C	Total/NA
Barium	5.2		0.52	0.11	mg/Kg	1		6010C	Total/NA
Chromium	0.53		0.52	0.21	mg/Kg	1		6010C	Total/NA
Lead	5.5		1.0	0.25	mg/Kg	1		6010C	Total/NA
Hg	0.0099	J	0.018	0.0072	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-103 (4')

Lab Sample ID: 480-60422-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	190	J	4100	60	ug/Kg	20	☼	8270D	Total/NA
Arsenic	1.4	J	2.2	0.44	mg/Kg	1		6010C	Total/NA
Barium	2.8		0.55	0.12	mg/Kg	1		6010C	Total/NA
Chromium	0.31	J	0.55	0.22	mg/Kg	1		6010C	Total/NA
Lead	3.0		1.1	0.27	mg/Kg	1		6010C	Total/NA
Selenium	0.45	J	4.4	0.44	mg/Kg	1		6010C	Total/NA
Silver	0.22	J	0.66	0.22	mg/Kg	1		6010C	Total/NA
Hg	0.20		0.020	0.0081	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-104 (2-3')

Lab Sample ID: 480-60422-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	7.6	J	180	2.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	6.4	J	180	3.8	ug/Kg	1	☼	8270D	Total/NA
Arsenic	0.50	J	2.0	0.39	mg/Kg	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-104 (2-3') (Continued)

Lab Sample ID: 480-60422-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	5.2		0.49	0.11	mg/Kg	1		6010C	Total/NA
Lead	12		0.98	0.24	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-104 (4)

Lab Sample ID: 480-60422-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		1.9	0.38	mg/Kg	1		6010C	Total/NA
Barium	14		0.48	0.11	mg/Kg	1		6010C	Total/NA
Chromium	1.3		0.48	0.19	mg/Kg	1		6010C	Total/NA
Lead	83		0.96	0.23	mg/Kg	1		6010C	Total/NA
Selenium	0.49	J	3.8	0.38	mg/Kg	1		6010C	Total/NA
Hg	0.0081	J	0.019	0.0075	mg/Kg	1		7471B	Total/NA

Client Sample ID: TP-105 (4-5')

Lab Sample ID: 480-60422-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.5	J	2.0	0.40	mg/Kg	1		6010C	Total/NA
Barium	7.4		0.50	0.11	mg/Kg	1		6010C	Total/NA
Chromium	2.1		0.50	0.20	mg/Kg	1		6010C	Total/NA
Lead	1.3		0.99	0.24	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-105 (10')

Lab Sample ID: 480-60422-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	12	J	200	3.4	ug/Kg	1	*	8270D	Total/NA
Chrysene	11	J	200	2.0	ug/Kg	1	*	8270D	Total/NA
Fluoranthene	18	J	200	2.9	ug/Kg	1	*	8270D	Total/NA
Phenanthrene	14	J	200	4.1	ug/Kg	1	*	8270D	Total/NA
Pyrene	21	J	200	1.3	ug/Kg	1	*	8270D	Total/NA
Arsenic	0.96	J	2.0	0.40	mg/Kg	1		6010C	Total/NA
Barium	7.2		0.50	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.039	J	0.20	0.030	mg/Kg	1		6010C	Total/NA
Chromium	1.7		0.50	0.20	mg/Kg	1		6010C	Total/NA
Lead	0.98	J	1.0	0.24	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-106 (4-5')

Lab Sample ID: 480-60422-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.3	J	1.9	0.38	mg/Kg	1		6010C	Total/NA
Barium	6.0		0.47	0.10	mg/Kg	1		6010C	Total/NA
Cadmium	0.036	J	0.19	0.028	mg/Kg	1		6010C	Total/NA
Chromium	1.7		0.47	0.19	mg/Kg	1		6010C	Total/NA
Lead	1.2		0.94	0.23	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-106 (10)

Lab Sample ID: 480-60422-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.90	J	1.9	0.38	mg/Kg	1		6010C	Total/NA
Barium	6.3		0.47	0.10	mg/Kg	1		6010C	Total/NA
Cadmium	0.030	J	0.19	0.028	mg/Kg	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-106 (10) (Continued)

Lab Sample ID: 480-60422-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1.3		0.47	0.19	mg/Kg	1		6010C	Total/NA
Lead	0.72	J	0.94	0.23	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-107 (5-5.5)

Lab Sample ID: 480-60422-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.96	J	2.1	0.43	mg/Kg	1		6010C	Total/NA
Barium	8.0		0.53	0.12	mg/Kg	1		6010C	Total/NA
Chromium	1.4		0.53	0.21	mg/Kg	1		6010C	Total/NA
Lead	1.2		1.1	0.26	mg/Kg	1		6010C	Total/NA

Client Sample ID: TP-107 (10')

Lab Sample ID: 480-60422-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.1	J	2.0	0.40	mg/Kg	1		6010C	Total/NA
Barium	4.3	^	0.51	0.11	mg/Kg	1		6010C	Total/NA
Chromium	1.3		0.51	0.20	mg/Kg	1		6010C	Total/NA
Lead	0.88	J	1.0	0.24	mg/Kg	1		6010C	Total/NA

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Free Liquid	passed				mL/100g	1		9095B	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1400		320	88	ug/Kg	5	*	8260C	Total/NA
1,1-Dichloroethane	580		320	98	ug/Kg	5	*	8260C	Total/NA
cis-1,2-Dichloroethene	660		320	88	ug/Kg	5	*	8260C	Total/NA
Cyclohexane	190	J	320	71	ug/Kg	5	*	8260C	Total/NA
Ethylbenzene	3300		320	92	ug/Kg	5	*	8260C	Total/NA
Methylcyclohexane	620		320	150	ug/Kg	5	*	8260C	Total/NA
Toluene	1600		320	85	ug/Kg	5	*	8260C	Total/NA
Trichloroethene	14000		320	88	ug/Kg	5	*	8260C	Total/NA
Xylenes, Total	16000		640	53	ug/Kg	5	*	8260C	Total/NA
2-Methylnaphthalene	9300		7800	94	ug/Kg	40	*	8270D	Total/NA
4-Methylphenol	820	J	15000	430	ug/Kg	40	*	8270D	Total/NA
Acenaphthene	27000		7800	91	ug/Kg	40	*	8270D	Total/NA
Acenaphthylene	1100	J	7800	63	ug/Kg	40	*	8270D	Total/NA
Anthracene	52000		7800	200	ug/Kg	40	*	8270D	Total/NA
Benzo[a]anthracene	100000		7800	130	ug/Kg	40	*	8270D	Total/NA
Benzo[a]pyrene	88000		7800	190	ug/Kg	40	*	8270D	Total/NA
Benzo[b]fluoranthene	120000		7800	150	ug/Kg	40	*	8270D	Total/NA
Benzo[g,h,i]perylene	30000	*	7800	93	ug/Kg	40	*	8270D	Total/NA
Benzo[k]fluoranthene	64000		7800	85	ug/Kg	40	*	8270D	Total/NA
Biphenyl	2400	J	7800	480	ug/Kg	40	*	8270D	Total/NA
Carbazole	26000		7800	89	ug/Kg	40	*	8270D	Total/NA
Chrysene	120000		7800	77	ug/Kg	40	*	8270D	Total/NA
Dibenz(a,h)anthracene	11000		7800	91	ug/Kg	40	*	8270D	Total/NA
Dibenzofuran	18000		7800	80	ug/Kg	40	*	8270D	Total/NA
Fluoranthene	240000		7800	110	ug/Kg	40	*	8270D	Total/NA
Fluorene	27000		7800	180	ug/Kg	40	*	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: Cistern Disposal (Continued)

Lab Sample ID: 480-60422-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	27000	*	7800	210	ug/Kg	40	☼	8270D	Total/NA
Naphthalene	21000		7800	130	ug/Kg	40	☼	8270D	Total/NA
Pyrene	170000		7800	50	ug/Kg	40	☼	8270D	Total/NA
Phenanthrene - DL	280000		16000	320	ug/Kg	80	☼	8270D	Total/NA
Diesel Range Organics [C10-C28]	5700		1700	520	mg/Kg	10	☼	8015D	Total/NA
Arsenic	4.9		2.1	0.41	mg/Kg	1		6010B	Total/NA
Barium	48		0.52	0.11	mg/Kg	1		6010B	Total/NA
Cadmium	0.36		0.21	0.031	mg/Kg	1		6010B	Total/NA
Chromium	25		0.52	0.21	mg/Kg	1		6010B	Total/NA
Lead	65		1.0	0.25	mg/Kg	1		6010B	Total/NA
Selenium	0.41	J	4.1	0.41	mg/Kg	1		6010B	Total/NA
Hg	0.48		0.020	0.0082	mg/Kg	1		7471A	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010	Total/NA
pH	7.60		0.100	0.100	SU	1		9045C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-201
Date Collected: 05/21/14 11:30
Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-1
Matrix: Solid
Percent Solids: 89.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	4.2	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Acenaphthene	6.2	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Acenaphthylene	4.1	J	190	1.5	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Anthracene	11	J	190	4.7	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Benzo[a]anthracene	56	J	190	3.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Benzo[a]pyrene	56	J	190	4.5	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Benzo[b]fluoranthene	77	J	190	3.6	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Benzo[g,h,i]perylene	110	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Benzo[k]fluoranthene	31	J	190	2.0	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Chrysene	69	J	190	1.9	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Dibenz(a,h)anthracene	29	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Fluoranthene	120	J	190	2.7	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Fluorene	ND		190	4.3	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Indeno[1,2,3-cd]pyrene	77	J	190	5.1	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Naphthalene	8.1	J	190	3.1	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Phenanthrene	81	J	190	3.9	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Pyrene	150	J	190	1.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		37 - 120				05/23/14 12:27	05/28/14 20:09	1
Nitrobenzene-d5 (Surr)	70		34 - 132				05/23/14 12:27	05/28/14 20:09	1
p-Terphenyl-d14 (Surr)	111		65 - 153				05/23/14 12:27	05/28/14 20:09	1

Client Sample ID: S-202
Date Collected: 05/21/14 11:31
Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-2
Matrix: Solid
Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	2.3	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Acenaphthene	3.1	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Anthracene	7.6	J	190	4.8	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Benzo[a]anthracene	26	J	190	3.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Benzo[a]pyrene	18	J	190	4.5	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Benzo[b]fluoranthene	23	J	190	3.6	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Benzo[g,h,i]perylene	31	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Benzo[k]fluoranthene	12	J	190	2.0	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Chrysene	25	J	190	1.9	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Fluoranthene	42	J	190	2.7	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Fluorene	ND		190	4.3	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Indeno[1,2,3-cd]pyrene	19	J	190	5.1	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Naphthalene	ND		190	3.1	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Phenanthrene	34	J	190	3.9	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Pyrene	51	J	190	1.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		37 - 120				05/23/14 12:27	05/28/14 20:32	1
Nitrobenzene-d5 (Surr)	65		34 - 132				05/23/14 12:27	05/28/14 20:32	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-202

Date Collected: 05/21/14 11:31

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-2

Matrix: Solid

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	107		65 - 153	05/23/14 12:27	05/28/14 20:32	1

Client Sample ID: S-203

Date Collected: 05/21/14 11:32

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-3

Matrix: Solid

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	2.3	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Acenaphthene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Anthracene	ND		190	4.8	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Benzo[a]anthracene	13	J	190	3.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Benzo[a]pyrene	ND		190	4.5	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Benzo[b]fluoranthene	ND		190	3.6	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Benzo[g,h,i]perylene	11	J	190	2.3	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Benzo[k]fluoranthene	ND		190	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Chrysene	12	J	190	1.9	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Fluoranthene	18	J	190	2.7	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Fluorene	ND		190	4.3	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Indeno[1,2,3-cd]pyrene	ND		190	5.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Naphthalene	ND		190	3.1	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Phenanthrene	12	J	190	3.9	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Pyrene	25	J	190	1.2	ug/Kg	☼	05/23/14 12:27	05/28/14 20:55	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
2-Fluorobiphenyl	76		37 - 120	05/23/14 12:27	05/28/14 20:55	1			
Nitrobenzene-d5 (Surr)	67		34 - 132	05/23/14 12:27	05/28/14 20:55	1			
p-Terphenyl-d14 (Surr)	112		65 - 153	05/23/14 12:27	05/28/14 20:55	1			

Client Sample ID: S-204

Date Collected: 05/21/14 11:33

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-4

Matrix: Solid

Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Acenaphthene	3.5	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Anthracene	10	J	190	4.7	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Benzo[a]anthracene	43	J	190	3.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Benzo[a]pyrene	34	J	190	4.4	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Benzo[b]fluoranthene	45	J	190	3.6	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Benzo[g,h,i]perylene	31	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Benzo[k]fluoranthene	23	J	190	2.0	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Chrysene	54	J	190	1.8	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Fluoranthene	87	J	190	2.7	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Fluorene	ND		190	4.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-204

Lab Sample ID: 480-60422-4

Date Collected: 05/21/14 11:33

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	27	J	190	5.1	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Naphthalene	ND		190	3.1	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Phenanthrene	64	J	190	3.9	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Pyrene	110	J	190	1.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		37 - 120				05/23/14 12:27	05/28/14 21:18	1
Nitrobenzene-d5 (Surr)	68		34 - 132				05/23/14 12:27	05/28/14 21:18	1
p-Terphenyl-d14 (Surr)	115		65 - 153				05/23/14 12:27	05/28/14 21:18	1

Client Sample ID: S-205

Lab Sample ID: 480-60422-5

Date Collected: 05/21/14 11:34

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 92.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		180	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Anthracene	ND		180	4.6	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Benzo[a]anthracene	ND		180	3.1	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Benzo[a]pyrene	ND		180	4.4	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Benzo[b]fluoranthene	ND		180	3.5	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Benzo[g,h,i]perylene	ND		180	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Benzo[k]fluoranthene	ND		180	2.0	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Chrysene	ND		180	1.8	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Fluoranthene	ND		180	2.6	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Fluorene	ND		180	4.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Indeno[1,2,3-cd]pyrene	ND		180	5.0	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Naphthalene	ND		180	3.0	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Phenanthrene	ND		180	3.8	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Pyrene	ND		180	1.2	ug/Kg	☼	05/23/14 12:27	05/28/14 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		37 - 120				05/23/14 12:27	05/28/14 21:40	1
Nitrobenzene-d5 (Surr)	60		34 - 132				05/23/14 12:27	05/28/14 21:40	1
p-Terphenyl-d14 (Surr)	115		65 - 153				05/23/14 12:27	05/28/14 21:40	1

Client Sample ID: S-206

Lab Sample ID: 480-60422-6

Date Collected: 05/21/14 11:45

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 95.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Acenaphthylene	ND		180	1.4	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Anthracene	ND		180	4.5	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Benzo[a]anthracene	10	J	180	3.0	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-206

Lab Sample ID: 480-60422-6

Date Collected: 05/21/14 11:45

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 95.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		180	4.2	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Benzo[b]fluoranthene	ND		180	3.4	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Benzo[g,h,i]perylene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Benzo[k]fluoranthene	ND		180	1.9	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Chrysene	9.0	J	180	1.7	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Fluoranthene	12	J	180	2.5	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Fluorene	ND		180	4.0	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Indeno[1,2,3-cd]pyrene	ND		180	4.8	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Naphthalene	ND		180	2.9	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Phenanthrene	4.6	J	180	3.7	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Pyrene	14	J	180	1.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		37 - 120				05/23/14 12:27	05/28/14 22:03	1
Nitrobenzene-d5 (Surr)	70		34 - 132				05/23/14 12:27	05/28/14 22:03	1
p-Terphenyl-d14 (Surr)	115		65 - 153				05/23/14 12:27	05/28/14 22:03	1

Client Sample ID: S-207

Lab Sample ID: 480-60422-7

Date Collected: 05/21/14 11:46

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		180	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Anthracene	ND		180	4.6	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Benzo[a]anthracene	15	J	180	3.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Benzo[a]pyrene	ND		180	4.3	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Benzo[b]fluoranthene	ND		180	3.5	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Benzo[g,h,i]perylene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Benzo[k]fluoranthene	ND		180	2.0	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Chrysene	16	J	180	1.8	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Fluoranthene	23	J	180	2.6	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Fluorene	ND		180	4.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Indeno[1,2,3-cd]pyrene	ND		180	4.9	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Naphthalene	ND		180	3.0	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Phenanthrene	10	J	180	3.7	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Pyrene	25	J	180	1.2	ug/Kg	☼	05/23/14 12:27	05/28/14 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		37 - 120				05/23/14 12:27	05/28/14 22:26	1
Nitrobenzene-d5 (Surr)	72		34 - 132				05/23/14 12:27	05/28/14 22:26	1
p-Terphenyl-d14 (Surr)	114		65 - 153				05/23/14 12:27	05/28/14 22:26	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-208

Lab Sample ID: 480-60422-8

Date Collected: 05/21/14 11:47

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 90.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	2.3	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Acenaphthene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Anthracene	ND		190	4.8	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Benzo[a]anthracene	ND		190	3.2	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Benzo[a]pyrene	ND		190	4.5	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Benzo[b]fluoranthene	ND		190	3.6	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Benzo[g,h,i]perylene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Benzo[k]fluoranthene	ND		190	2.0	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Chrysene	ND		190	1.9	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Fluoranthene	ND		190	2.7	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Fluorene	ND		190	4.3	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Indeno[1,2,3-cd]pyrene	ND		190	5.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Naphthalene	ND		190	3.1	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Phenanthrene	ND		190	3.9	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1
Pyrene	ND		190	1.2	ug/Kg	☼	05/23/14 12:27	05/28/14 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		37 - 120	05/23/14 12:27	05/28/14 22:49	1
Nitrobenzene-d5 (Surr)	73		34 - 132	05/23/14 12:27	05/28/14 22:49	1
p-Terphenyl-d14 (Surr)	115		65 - 153	05/23/14 12:27	05/28/14 22:49	1

Client Sample ID: S-209

Lab Sample ID: 480-60422-9

Date Collected: 05/21/14 11:48

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 92.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		180	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Anthracene	ND		180	4.6	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Benzo[a]anthracene	20	J	180	3.1	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Benzo[a]pyrene	ND		180	4.4	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Benzo[b]fluoranthene	22	J	180	3.5	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Benzo[g,h,i]perylene	ND		180	2.2	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Benzo[k]fluoranthene	10	J	180	2.0	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Chrysene	22	J	180	1.8	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Fluoranthene	35	J	180	2.6	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Fluorene	ND		180	4.2	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Indeno[1,2,3-cd]pyrene	ND		180	5.0	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Naphthalene	ND		180	3.0	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Phenanthrene	17	J	180	3.8	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1
Pyrene	40	J	180	1.2	ug/Kg	☼	05/23/14 12:27	05/28/14 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		37 - 120	05/23/14 12:27	05/28/14 23:12	1
Nitrobenzene-d5 (Surr)	73		34 - 132	05/23/14 12:27	05/28/14 23:12	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-209

Date Collected: 05/21/14 11:48

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-9

Matrix: Solid

Percent Solids: 92.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	114		65 - 153	05/23/14 12:27	05/28/14 23:12	1

Client Sample ID: S-210

Date Collected: 05/21/14 11:49

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-10

Matrix: Solid

Percent Solids: 94.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Acenaphthylene	ND		180	1.4	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Anthracene	ND		180	4.5	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Benzo[a]anthracene	ND		180	3.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Benzo[a]pyrene	ND		180	4.3	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Benzo[b]fluoranthene	ND		180	3.4	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Benzo[g,h,i]perylene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Benzo[k]fluoranthene	ND		180	1.9	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Chrysene	ND		180	1.8	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Fluoranthene	ND		180	2.6	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Fluorene	ND		180	4.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Indeno[1,2,3-cd]pyrene	ND		180	4.9	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Naphthalene	ND		180	2.9	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Phenanthrene	ND		180	3.7	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1
Pyrene	ND		180	1.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		37 - 120	05/23/14 12:27	05/29/14 04:05	1
Nitrobenzene-d5 (Surr)	74		34 - 132	05/23/14 12:27	05/29/14 04:05	1
p-Terphenyl-d14 (Surr)	94		65 - 153	05/23/14 12:27	05/29/14 04:05	1

Client Sample ID: S-211

Date Collected: 05/21/14 12:45

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-11

Matrix: Solid

Percent Solids: 78.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		210	2.5	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Acenaphthene	ND		210	2.5	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Acenaphthylene	ND		210	1.7	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Anthracene	ND		210	5.4	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Benzo[a]anthracene	ND		210	3.6	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Benzo[a]pyrene	ND		210	5.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Benzo[b]fluoranthene	ND		210	4.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Benzo[g,h,i]perylene	ND		210	2.5	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Benzo[k]fluoranthene	ND		210	2.3	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Chrysene	ND		210	2.1	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Dibenz(a,h)anthracene	ND		210	2.5	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Fluoranthene	ND		210	3.0	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Fluorene	ND		210	4.8	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-211

Lab Sample ID: 480-60422-11

Date Collected: 05/21/14 12:45

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 78.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		210	5.8	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Naphthalene	ND		210	3.5	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Phenanthrene	ND		210	4.4	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Pyrene	ND		210	1.4	ug/Kg	☼	05/23/14 12:27	05/29/14 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		37 - 120				05/23/14 12:27	05/29/14 04:28	1
Nitrobenzene-d5 (Surr)	75		34 - 132				05/23/14 12:27	05/29/14 04:28	1
p-Terphenyl-d14 (Surr)	93		65 - 153				05/23/14 12:27	05/29/14 04:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.71	J	2.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 19:05	1
Barium	5.5		0.50	0.11	mg/Kg		05/23/14 13:50	05/28/14 19:05	1
Cadmium	0.044	J	0.20	0.030	mg/Kg		05/23/14 13:50	05/28/14 19:05	1
Chromium	20		0.50	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:05	1
Lead	1.1		0.99	0.24	mg/Kg		05/23/14 13:50	05/28/14 19:05	1
Selenium	ND		4.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 19:05	1
Silver	ND		0.59	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.018	0.0075	mg/Kg		05/30/14 10:00	05/31/14 09:09	1

Client Sample ID: S-212

Lab Sample ID: 480-60422-12

Date Collected: 05/21/14 13:05

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 58.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		2900	35	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Acenaphthene	ND		2900	33	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Acenaphthylene	ND		2900	23	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Anthracene	120	J	2900	73	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Benzo[a]anthracene	580	J	2900	49	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Benzo[a]pyrene	1000	J	2900	69	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Benzo[b]fluoranthene	980	J	2900	55	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Benzo[g,h,i]perylene	1300	J	2900	34	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Benzo[k]fluoranthene	400	J	2900	31	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Chrysene	780	J	2900	28	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Dibenz(a,h)anthracene	690	J	2900	33	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Fluoranthene	900	J	2900	41	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Fluorene	ND		2900	66	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Indeno[1,2,3-cd]pyrene	910	J	2900	79	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Naphthalene	ND		2900	47	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Phenanthrene	610	J	2900	60	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Pyrene	880	J	2900	18	ug/Kg	☼	05/23/14 12:27	05/29/14 04:51	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		37 - 120				05/23/14 12:27	05/29/14 04:51	10
Nitrobenzene-d5 (Surr)	75		34 - 132				05/23/14 12:27	05/29/14 04:51	10

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-212

Date Collected: 05/21/14 13:05

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-12

Matrix: Solid

Percent Solids: 58.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	94		65 - 153	05/23/14 12:27	05/29/14 04:51	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		2.0	0.41	mg/Kg		05/23/14 13:50	05/28/14 19:19	1
Barium	180		0.51	0.11	mg/Kg		05/23/14 13:50	05/28/14 19:19	1
Cadmium	1.6		0.20	0.031	mg/Kg		05/23/14 13:50	05/28/14 19:19	1
Chromium	5400		5.1	2.0	mg/Kg		05/23/14 13:50	05/30/14 13:00	10
Lead	730		1.0	0.24	mg/Kg		05/23/14 13:50	05/28/14 19:19	1
Selenium	2.3	J	4.1	0.41	mg/Kg		05/23/14 13:50	05/28/14 19:19	1
Silver	0.64		0.61	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:19	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	1.3		0.10	0.042	mg/Kg		05/30/14 10:00	05/31/14 10:47	5

Client Sample ID: S-213

Date Collected: 05/21/14 13:06

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-13

Matrix: Solid

Percent Solids: 83.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	73	J	2000	24	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Acenaphthene	220	J	2000	23	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Acenaphthylene	ND		2000	16	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Anthracene	540	J	2000	51	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Benzo[a]anthracene	1500	J	2000	35	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Benzo[a]pyrene	1200	J	2000	48	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Benzo[b]fluoranthene	1700	J	2000	39	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Benzo[g,h,i]perylene	890	J	2000	24	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Benzo[k]fluoranthene	690	J	2000	22	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Chrysene	1700	J	2000	20	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Dibenz(a,h)anthracene	320	J	2000	24	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Fluoranthene	3400		2000	29	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Fluorene	220	J	2000	46	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Indeno[1,2,3-cd]pyrene	870	J	2000	55	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Naphthalene	180	J	2000	33	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Phenanthrene	2500		2000	42	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10
Pyrene	3000		2000	13	ug/Kg	*	05/23/14 12:27	05/29/14 05:14	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		37 - 120	05/23/14 12:27	05/29/14 05:14	10
Nitrobenzene-d5 (Surr)	77		34 - 132	05/23/14 12:27	05/29/14 05:14	10
p-Terphenyl-d14 (Surr)	110		65 - 153	05/23/14 12:27	05/29/14 05:14	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		2.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 19:22	1
Barium	210		0.51	0.11	mg/Kg		05/23/14 13:50	05/28/14 19:22	1
Cadmium	0.16	J	0.20	0.030	mg/Kg		05/23/14 13:50	05/28/14 19:22	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-213

Date Collected: 05/21/14 13:06

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-13

Matrix: Solid

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1100		0.51	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:22	1
Lead	2800		1.0	0.24	mg/Kg		05/23/14 13:50	05/28/14 19:22	1
Selenium	1.0	J	4.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 19:22	1
Silver	ND		0.61	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.18		0.020	0.0081	mg/Kg		05/30/14 10:00	05/31/14 09:13	1

Client Sample ID: S-214

Date Collected: 05/21/14 13:07

Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-14

Matrix: Solid

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	37	J	210	2.5	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Acenaphthene	44	J	210	2.4	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Acenaphthylene	42	J	210	1.7	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Anthracene	100	J	210	5.3	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Benzo[a]anthracene	540		210	3.6	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Benzo[a]pyrene	470		210	5.0	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Benzo[b]fluoranthene	690		210	4.0	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Benzo[g,h,i]perylene	310		210	2.5	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Benzo[k]fluoranthene	240		210	2.3	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Chrysene	710		210	2.1	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Dibenz(a,h)anthracene	84	J	210	2.4	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Fluoranthene	1300		210	3.0	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Fluorene	46	J	210	4.8	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Indeno[1,2,3-cd]pyrene	300		210	5.7	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Naphthalene	35	J	210	3.5	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Phenanthrene	820		210	4.4	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1
Pyrene	1300		210	1.3	ug/Kg	☼	05/23/14 12:27	05/29/14 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		37 - 120	05/23/14 12:27	05/29/14 05:37	1
Nitrobenzene-d5 (Surr)	74		34 - 132	05/23/14 12:27	05/29/14 05:37	1
p-Terphenyl-d14 (Surr)	104		65 - 153	05/23/14 12:27	05/29/14 05:37	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		2.0	0.39	mg/Kg		05/23/14 13:50	05/28/14 19:36	1
Barium	46		0.49	0.11	mg/Kg		05/23/14 13:50	05/28/14 19:36	1
Cadmium	0.076	J	0.20	0.030	mg/Kg		05/23/14 13:50	05/28/14 19:36	1
Chromium	7.1		0.49	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:36	1
Lead	51		0.99	0.24	mg/Kg		05/23/14 13:50	05/28/14 19:36	1
Selenium	0.76	J	3.9	0.39	mg/Kg		05/23/14 13:50	05/28/14 19:36	1
Silver	ND		0.59	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.059		0.020	0.0082	mg/Kg		05/30/14 10:00	05/31/14 09:14	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-215
Date Collected: 05/21/14 13:08
Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-15
Matrix: Solid
Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	23	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Acenaphthene	4.3	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Acenaphthylene	4.8	J	190	1.5	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Anthracene	15	J	190	4.8	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Benzo[a]anthracene	ND		190	3.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Benzo[a]pyrene	50	J	190	4.5	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Benzo[b]fluoranthene	130	J	190	3.6	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Benzo[g,h,i]perylene	85	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Benzo[k]fluoranthene	24	J	190	2.0	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Chrysene	140	J	190	1.9	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Dibenz(a,h)anthracene	26	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Fluoranthene	110	J	190	2.7	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Fluorene	ND		190	4.3	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Indeno[1,2,3-cd]pyrene	71	J	190	5.1	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Naphthalene	21	J	190	3.1	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Phenanthrene	120	J	190	3.9	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Pyrene	110	J	190	1.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		37 - 120				05/23/14 12:27	05/29/14 06:00	1
Nitrobenzene-d5 (Surr)	76		34 - 132				05/23/14 12:27	05/29/14 06:00	1
p-Terphenyl-d14 (Surr)	106		65 - 153				05/23/14 12:27	05/29/14 06:00	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		1.8	0.37	mg/Kg		05/23/14 13:50	05/28/14 19:39	1
Barium	45		0.46	0.10	mg/Kg		05/23/14 13:50	05/28/14 19:39	1
Cadmium	0.21		0.18	0.027	mg/Kg		05/23/14 13:50	05/28/14 19:39	1
Chromium	9.8		0.46	0.18	mg/Kg		05/23/14 13:50	05/28/14 19:39	1
Lead	22		0.91	0.22	mg/Kg		05/23/14 13:50	05/28/14 19:39	1
Selenium	7.3		3.7	0.37	mg/Kg		05/23/14 13:50	05/28/14 19:39	1
Silver	ND		0.55	0.18	mg/Kg		05/23/14 13:50	05/28/14 19:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.089		0.021	0.0084	mg/Kg		05/30/14 10:00	05/31/14 09:16	1

Client Sample ID: S-216
Date Collected: 05/21/14 13:15
Date Received: 05/23/14 01:00

Lab Sample ID: 480-60422-16
Matrix: Solid
Percent Solids: 89.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Acenaphthene	3.3	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Anthracene	6.7	J	190	4.7	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Benzo[a]anthracene	47	J	190	3.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Benzo[a]pyrene	37	J	190	4.5	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Benzo[b]fluoranthene	56	J	190	3.6	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-216

Lab Sample ID: 480-60422-16

Date Collected: 05/21/14 13:15

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 89.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	27	J	190	2.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Benzo[k]fluoranthene	21	J	190	2.0	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Chrysene	57	J	190	1.9	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Fluoranthene	100	J	190	2.7	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Fluorene	ND		190	4.3	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Indeno[1,2,3-cd]pyrene	26	J	190	5.1	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Naphthalene	ND		190	3.1	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Phenanthrene	55	J	190	3.9	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Pyrene	100	J	190	1.2	ug/Kg	☼	05/23/14 12:27	05/29/14 06:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		37 - 120				05/23/14 12:27	05/29/14 06:23	1
Nitrobenzene-d5 (Surr)	75		34 - 132				05/23/14 12:27	05/29/14 06:23	1
p-Terphenyl-d14 (Surr)	104		65 - 153				05/23/14 12:27	05/29/14 06:23	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8	J	2.1	0.42	mg/Kg		05/23/14 13:50	05/28/14 19:42	1
Barium	8.7		0.53	0.12	mg/Kg		05/23/14 13:50	05/28/14 19:42	1
Cadmium	ND		0.21	0.032	mg/Kg		05/23/14 13:50	05/28/14 19:42	1
Chromium	220		0.53	0.21	mg/Kg		05/23/14 13:50	05/28/14 19:42	1
Lead	5.9		1.1	0.25	mg/Kg		05/23/14 13:50	05/28/14 19:42	1
Selenium	ND		4.2	0.42	mg/Kg		05/23/14 13:50	05/28/14 19:42	1
Silver	ND		0.63	0.21	mg/Kg		05/23/14 13:50	05/28/14 19:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.024		0.020	0.0082	mg/Kg		05/30/14 10:00	05/31/14 09:18	1

Client Sample ID: TP-101 (5-5.5')

Lab Sample ID: 480-60422-17

Date Collected: 05/21/14 14:32

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.8	J	200	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Acenaphthene	4.2	J	200	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Acenaphthylene	ND		200	1.6	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Anthracene	ND		200	5.0	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Benzo[a]anthracene	ND		200	3.4	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Benzo[a]pyrene	ND		200	4.7	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Benzo[b]fluoranthene	ND		200	3.8	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Benzo[g,h,i]perylene	ND		200	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Benzo[k]fluoranthene	ND		200	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Chrysene	ND		200	1.9	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Dibenz(a,h)anthracene	ND		200	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Fluoranthene	ND		200	2.8	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Fluorene	ND		200	4.5	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Indeno[1,2,3-cd]pyrene	ND		200	5.4	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-101 (5-5.5')

Lab Sample ID: 480-60422-17

Date Collected: 05/21/14 14:32

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	22	J B	200	3.2	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Phenanthrene	8.8	J	200	4.1	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Pyrene	ND		200	1.3	ug/Kg	☼	05/23/14 12:33	05/28/14 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		37 - 120				05/23/14 12:33	05/28/14 13:09	1
Nitrobenzene-d5 (Surr)	72		34 - 132				05/23/14 12:33	05/28/14 13:09	1
p-Terphenyl-d14 (Surr)	93		65 - 153				05/23/14 12:33	05/28/14 13:09	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.1	J	1.9	0.39	mg/Kg		05/23/14 13:50	05/28/14 19:45	1
Barium	7.1		0.49	0.11	mg/Kg		05/23/14 13:50	05/28/14 19:45	1
Cadmium	ND		0.19	0.029	mg/Kg		05/23/14 13:50	05/28/14 19:45	1
Chromium	1.3		0.49	0.19	mg/Kg		05/23/14 13:50	05/28/14 19:45	1
Lead	1.2		0.97	0.23	mg/Kg		05/23/14 13:50	05/28/14 19:45	1
Selenium	ND		3.9	0.39	mg/Kg		05/23/14 13:50	05/28/14 19:45	1
Silver	ND		0.58	0.19	mg/Kg		05/23/14 13:50	05/28/14 19:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.018	0.0073	mg/Kg		05/30/14 10:00	05/31/14 09:29	1

Client Sample ID: TP-101 (10')

Lab Sample ID: 480-60422-18

Date Collected: 05/21/14 14:30

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 96.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		170	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Acenaphthene	ND		170	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Acenaphthylene	ND		170	1.4	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Anthracene	ND		170	4.4	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Benzo[a]anthracene	ND		170	3.0	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Benzo[a]pyrene	ND		170	4.1	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Benzo[b]fluoranthene	ND		170	3.3	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Benzo[g,h,i]perylene	ND		170	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Benzo[k]fluoranthene	ND		170	1.9	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Chrysene	ND		170	1.7	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Fluoranthene	ND		170	2.5	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Fluorene	ND		170	4.0	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Indeno[1,2,3-cd]pyrene	ND		170	4.7	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Naphthalene	ND		170	2.9	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Phenanthrene	ND		170	3.6	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Pyrene	ND		170	1.1	ug/Kg	☼	05/23/14 12:33	05/28/14 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		37 - 120				05/23/14 12:33	05/28/14 13:32	1
Nitrobenzene-d5 (Surr)	75		34 - 132				05/23/14 12:33	05/28/14 13:32	1
p-Terphenyl-d14 (Surr)	97		65 - 153				05/23/14 12:33	05/28/14 13:32	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-101 (10')

Lab Sample ID: 480-60422-18

Date Collected: 05/21/14 14:30

Matrix: Solid

Date Received: 05/23/14 01:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.0	J	2.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 19:47	1
Barium	7.0		0.50	0.11	mg/Kg		05/23/14 13:50	05/28/14 19:47	1
Cadmium	0.040	J	0.20	0.030	mg/Kg		05/23/14 13:50	05/28/14 19:47	1
Chromium	1.4		0.50	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:47	1
Lead	1.1		1.0	0.24	mg/Kg		05/23/14 13:50	05/28/14 19:47	1
Selenium	0.40	J	4.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 19:47	1
Silver	ND		0.61	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0082	mg/Kg		05/30/14 10:00	05/31/14 09:31	1

Client Sample ID: TP-102 (4-5')

Lab Sample ID: 480-60422-19

Date Collected: 05/21/14 14:38

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 97.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		170	2.1	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Acenaphthene	ND		170	2.0	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Acenaphthylene	ND		170	1.4	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Anthracene	ND		170	4.4	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Benzo[a]anthracene	ND		170	3.0	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Benzo[a]pyrene	ND		170	4.1	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Benzo[b]fluoranthene	ND		170	3.3	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Benzo[g,h,i]perylene	ND		170	2.1	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Benzo[k]fluoranthene	ND		170	1.9	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Chrysene	ND		170	1.7	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Fluoranthene	ND		170	2.5	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Fluorene	ND		170	3.9	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Indeno[1,2,3-cd]pyrene	ND		170	4.7	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Naphthalene	ND		170	2.8	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Phenanthrene	ND		170	3.6	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1
Pyrene	ND		170	1.1	ug/Kg	*	05/23/14 12:33	05/28/14 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		37 - 120	05/23/14 12:33	05/28/14 13:55	1
Nitrobenzene-d5 (Surr)	78		34 - 132	05/23/14 12:33	05/28/14 13:55	1
p-Terphenyl-d14 (Surr)	100		65 - 153	05/23/14 12:33	05/28/14 13:55	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3	J	2.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 19:50	1
Barium	11		0.50	0.11	mg/Kg		05/23/14 13:50	05/28/14 19:50	1
Cadmium	ND		0.20	0.030	mg/Kg		05/23/14 13:50	05/28/14 19:50	1
Chromium	2.1		0.50	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:50	1
Lead	1.5		1.0	0.24	mg/Kg		05/23/14 13:50	05/28/14 19:50	1
Selenium	0.48	J	4.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 19:50	1
Silver	ND		0.60	0.20	mg/Kg		05/23/14 13:50	05/28/14 19:50	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-102 (4-5')

Lab Sample ID: 480-60422-19

Date Collected: 05/21/14 14:38

Matrix: Solid

Date Received: 05/23/14 01:00

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0082	mg/Kg		05/30/14 10:00	05/31/14 09:32	1

Client Sample ID: TP-102 (9.5')

Lab Sample ID: 480-60422-20

Date Collected: 05/21/14 14:45

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Acenaphthene	ND		200	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Acenaphthylene	ND		200	1.6	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Anthracene	ND		200	5.1	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Benzo[a]anthracene	ND		200	3.5	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Benzo[a]pyrene	ND		200	4.8	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Benzo[b]fluoranthene	ND		200	3.9	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Benzo[g,h,i]perylene	ND		200	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Benzo[k]fluoranthene	ND		200	2.2	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Chrysene	ND		200	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Dibenz(a,h)anthracene	ND		200	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Fluoranthene	ND		200	2.9	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Fluorene	ND		200	4.6	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Indeno[1,2,3-cd]pyrene	ND		200	5.5	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Naphthalene	ND		200	3.3	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Phenanthrene	ND		200	4.2	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1
Pyrene	ND		200	1.3	ug/Kg	☼	05/23/14 12:33	05/28/14 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		37 - 120	05/23/14 12:33	05/28/14 14:19	1
Nitrobenzene-d5 (Surr)	76		34 - 132	05/23/14 12:33	05/28/14 14:19	1
p-Terphenyl-d14 (Surr)	97		65 - 153	05/23/14 12:33	05/28/14 14:19	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.90	J	1.9	0.39	mg/Kg		05/23/14 13:50	05/28/14 19:53	1
Barium	6.3		0.48	0.11	mg/Kg		05/23/14 13:50	05/28/14 19:53	1
Cadmium	ND		0.19	0.029	mg/Kg		05/23/14 13:50	05/28/14 19:53	1
Chromium	1.4		0.48	0.19	mg/Kg		05/23/14 13:50	05/28/14 19:53	1
Lead	0.80	J	0.97	0.23	mg/Kg		05/23/14 13:50	05/28/14 19:53	1
Selenium	ND		3.9	0.39	mg/Kg		05/23/14 13:50	05/28/14 19:53	1
Silver	ND		0.58	0.19	mg/Kg		05/23/14 13:50	05/28/14 19:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.019	0.0077	mg/Kg		05/30/14 10:00	05/31/14 09:34	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-103 (2-3')

Lab Sample ID: 480-60422-21

Date Collected: 05/21/14 15:35

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 89.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Acenaphthene	ND		190	2.2	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Anthracene	ND		190	4.8	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Benzo[a]anthracene	ND		190	3.2	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Benzo[a]pyrene	ND		190	4.5	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Benzo[b]fluoranthene	ND		190	3.6	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Benzo[g,h,i]perylene	ND		190	2.2	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Benzo[k]fluoranthene	ND		190	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Chrysene	ND		190	1.9	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Fluoranthene	10	J	190	2.7	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Fluorene	ND		190	4.3	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Indeno[1,2,3-cd]pyrene	ND		190	5.2	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Naphthalene	ND		190	3.1	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Phenanthrene	6.7	J	190	3.9	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Pyrene	ND		190	1.2	ug/Kg	☼	05/23/14 12:33	05/28/14 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		37 - 120				05/23/14 12:33	05/28/14 14:42	1
Nitrobenzene-d5 (Surr)	76		34 - 132				05/23/14 12:33	05/28/14 14:42	1
p-Terphenyl-d14 (Surr)	97		65 - 153				05/23/14 12:33	05/28/14 14:42	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.0	J	2.1	0.42	mg/Kg		05/23/14 13:50	05/28/14 19:56	1
Barium	5.2		0.52	0.11	mg/Kg		05/23/14 13:50	05/28/14 19:56	1
Cadmium	ND		0.21	0.031	mg/Kg		05/23/14 13:50	05/28/14 19:56	1
Chromium	0.53		0.52	0.21	mg/Kg		05/23/14 13:50	05/28/14 19:56	1
Lead	5.5		1.0	0.25	mg/Kg		05/23/14 13:50	05/28/14 19:56	1
Selenium	ND		4.2	0.42	mg/Kg		05/23/14 13:50	05/28/14 19:56	1
Silver	ND		0.62	0.21	mg/Kg		05/23/14 13:50	05/28/14 19:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.0099	J	0.018	0.0072	mg/Kg		05/30/14 10:00	05/31/14 09:36	1

Client Sample ID: TP-103 (4')

Lab Sample ID: 480-60422-22

Date Collected: 05/21/14 15:38

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		4100	50	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Acenaphthene	ND		4100	48	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Acenaphthylene	ND		4100	34	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Anthracene	ND		4100	110	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Benzo[a]anthracene	ND		4100	71	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Benzo[a]pyrene	ND		4100	99	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Benzo[b]fluoranthene	ND		4100	80	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-103 (4')

Lab Sample ID: 480-60422-22

Date Collected: 05/21/14 15:38

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		4100	49	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Benzo[k]fluoranthene	ND		4100	45	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Chrysene	ND		4100	41	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Dibenz(a,h)anthracene	ND		4100	48	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Fluoranthene	190	J	4100	60	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Fluorene	ND		4100	95	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Indeno[1,2,3-cd]pyrene	ND		4100	110	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Naphthalene	ND		4100	68	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Phenanthrene	ND		4100	86	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20
Pyrene	ND		4100	27	ug/Kg	☼	05/23/14 12:33	05/28/14 15:06	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	49		37 - 120	05/23/14 12:33	05/28/14 15:06	20
Nitrobenzene-d5 (Surr)	71		34 - 132	05/23/14 12:33	05/28/14 15:06	20
p-Terphenyl-d14 (Surr)	91		65 - 153	05/23/14 12:33	05/28/14 15:06	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4	J	2.2	0.44	mg/Kg		05/23/14 13:50	05/28/14 20:10	1
Barium	2.8		0.55	0.12	mg/Kg		05/23/14 13:50	05/28/14 20:10	1
Cadmium	ND		0.22	0.033	mg/Kg		05/23/14 13:50	05/28/14 20:10	1
Chromium	0.31	J	0.55	0.22	mg/Kg		05/23/14 13:50	05/28/14 20:10	1
Lead	3.0		1.1	0.27	mg/Kg		05/23/14 13:50	05/28/14 20:10	1
Selenium	0.45	J	4.4	0.44	mg/Kg		05/23/14 13:50	05/28/14 20:10	1
Silver	0.22	J	0.66	0.22	mg/Kg		05/23/14 13:50	05/28/14 20:10	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.20		0.020	0.0081	mg/Kg		05/30/14 10:00	05/31/14 09:38	1

Client Sample ID: TP-104 (2-3')

Lab Sample ID: 480-60422-23

Date Collected: 05/21/14 15:55

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 93.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		180	2.2	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Anthracene	ND		180	4.6	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Benzo[a]anthracene	ND		180	3.1	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Benzo[a]pyrene	ND	*	180	4.3	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Benzo[b]fluoranthene	ND	*	180	3.5	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Benzo[g,h,i]perylene	ND	*	180	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Benzo[k]fluoranthene	ND	*	180	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Chrysene	ND		180	1.8	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Dibenz(a,h)anthracene	ND	*	180	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Fluoranthene	7.6	J	180	2.6	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Fluorene	ND		180	4.1	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Indeno[1,2,3-cd]pyrene	ND	*	180	4.9	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-104 (2-3')

Lab Sample ID: 480-60422-23

Date Collected: 05/21/14 15:55

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 93.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		180	3.0	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Phenanthrene	6.4	J	180	3.8	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Pyrene	ND		180	1.2	ug/Kg	☼	05/23/14 12:33	05/28/14 15:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		37 - 120				05/23/14 12:33	05/28/14 15:30	1
Nitrobenzene-d5 (Surr)	76		34 - 132				05/23/14 12:33	05/28/14 15:30	1
p-Terphenyl-d14 (Surr)	117		65 - 153				05/23/14 12:33	05/28/14 15:30	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	J	2.0	0.39	mg/Kg		05/23/14 13:50	05/28/14 20:13	1
Barium	5.2		0.49	0.11	mg/Kg		05/23/14 13:50	05/28/14 20:13	1
Cadmium	ND		0.20	0.029	mg/Kg		05/23/14 13:50	05/28/14 20:13	1
Chromium	ND		0.49	0.20	mg/Kg		05/23/14 13:50	05/28/14 20:13	1
Lead	12		0.98	0.24	mg/Kg		05/23/14 13:50	05/28/14 20:13	1
Selenium	ND		3.9	0.39	mg/Kg		05/23/14 13:50	05/28/14 20:13	1
Silver	ND		0.59	0.20	mg/Kg		05/23/14 13:50	05/28/14 20:13	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0081	mg/Kg		05/30/14 10:00	05/31/14 09:39	1

Client Sample ID: TP-104 (4)

Lab Sample ID: 480-60422-24

Date Collected: 05/21/14 15:56

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Acenaphthene	ND		190	2.2	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Acenaphthylene	ND		190	1.6	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Anthracene	ND		190	4.9	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Benzo[a]anthracene	ND		190	3.3	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Benzo[a]pyrene	ND	*	190	4.6	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Benzo[b]fluoranthene	ND	*	190	3.7	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Benzo[g,h,i]perylene	ND	*	190	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Benzo[k]fluoranthene	ND	*	190	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Chrysene	ND		190	1.9	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Dibenz(a,h)anthracene	ND	*	190	2.2	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Fluoranthene	ND		190	2.8	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Fluorene	ND		190	4.4	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Indeno[1,2,3-cd]pyrene	ND	*	190	5.3	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Naphthalene	ND		190	3.2	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Phenanthrene	ND		190	4.0	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Pyrene	ND		190	1.2	ug/Kg	☼	05/23/14 12:33	05/28/14 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		37 - 120				05/23/14 12:33	05/28/14 15:53	1
Nitrobenzene-d5 (Surr)	78		34 - 132				05/23/14 12:33	05/28/14 15:53	1
p-Terphenyl-d14 (Surr)	124		65 - 153				05/23/14 12:33	05/28/14 15:53	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-104 (4)

Lab Sample ID: 480-60422-24

Date Collected: 05/21/14 15:56

Matrix: Solid

Date Received: 05/23/14 01:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		1.9	0.38	mg/Kg		05/23/14 13:50	05/28/14 20:15	1
Barium	14		0.48	0.11	mg/Kg		05/23/14 13:50	05/28/14 20:15	1
Cadmium	ND		0.19	0.029	mg/Kg		05/23/14 13:50	05/28/14 20:15	1
Chromium	1.3		0.48	0.19	mg/Kg		05/23/14 13:50	05/28/14 20:15	1
Lead	83		0.96	0.23	mg/Kg		05/23/14 13:50	05/28/14 20:15	1
Selenium	0.49	J	3.8	0.38	mg/Kg		05/23/14 13:50	05/28/14 20:15	1
Silver	ND		0.58	0.19	mg/Kg		05/23/14 13:50	05/28/14 20:15	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.0081	J	0.019	0.0075	mg/Kg		05/30/14 10:00	05/31/14 09:41	1

Client Sample ID: TP-105 (4-5')

Lab Sample ID: 480-60422-25

Date Collected: 05/21/14 16:20

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 95.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		180	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Acenaphthylene	ND		180	1.4	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Anthracene	ND		180	4.5	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Benzo[a]anthracene	ND		180	3.0	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Benzo[a]pyrene	ND	*	180	4.2	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Benzo[b]fluoranthene	ND	*	180	3.4	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Benzo[g,h,i]perylene	ND	*	180	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Benzo[k]fluoranthene	ND	*	180	1.9	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Chrysene	ND		180	1.7	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Dibenz(a,h)anthracene	ND	*	180	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Fluoranthene	ND		180	2.5	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Fluorene	ND		180	4.0	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Indeno[1,2,3-cd]pyrene	ND	*	180	4.8	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Naphthalene	ND		180	2.9	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Phenanthrene	ND		180	3.7	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1
Pyrene	ND		180	1.1	ug/Kg	☼	05/23/14 12:33	05/28/14 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		37 - 120	05/23/14 12:33	05/28/14 16:17	1
Nitrobenzene-d5 (Surr)	77		34 - 132	05/23/14 12:33	05/28/14 16:17	1
p-Terphenyl-d14 (Surr)	122		65 - 153	05/23/14 12:33	05/28/14 16:17	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5	J	2.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 20:18	1
Barium	7.4		0.50	0.11	mg/Kg		05/23/14 13:50	05/28/14 20:18	1
Cadmium	ND		0.20	0.030	mg/Kg		05/23/14 13:50	05/28/14 20:18	1
Chromium	2.1		0.50	0.20	mg/Kg		05/23/14 13:50	05/28/14 20:18	1
Lead	1.3		0.99	0.24	mg/Kg		05/23/14 13:50	05/28/14 20:18	1
Selenium	ND		4.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 20:18	1
Silver	ND		0.60	0.20	mg/Kg		05/23/14 13:50	05/28/14 20:18	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-105 (4-5')

Lab Sample ID: 480-60422-25

Date Collected: 05/21/14 16:20

Matrix: Solid

Date Received: 05/23/14 01:00

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.021	0.0083	mg/Kg		05/30/14 10:00	05/31/14 09:43	1

Client Sample ID: TP-105 (10')

Lab Sample ID: 480-60422-26

Date Collected: 05/21/14 16:23

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Acenaphthene	ND		200	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Acenaphthylene	ND		200	1.6	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Anthracene	ND		200	5.1	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Benzo[a]anthracene	12	J	200	3.4	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Benzo[a]pyrene	ND	*	200	4.8	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Benzo[b]fluoranthene	ND	*	200	3.8	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Benzo[g,h,i]perylene	ND	*	200	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Benzo[k]fluoranthene	ND	*	200	2.2	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Chrysene	11	J	200	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Dibenz(a,h)anthracene	ND	*	200	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Fluoranthene	18	J	200	2.9	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Fluorene	ND		200	4.6	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Indeno[1,2,3-cd]pyrene	ND	*	200	5.5	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Naphthalene	ND		200	3.3	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Phenanthrene	14	J	200	4.1	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1
Pyrene	21	J	200	1.3	ug/Kg	☼	05/23/14 12:33	05/28/14 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		37 - 120	05/23/14 12:33	05/28/14 16:41	1
Nitrobenzene-d5 (Surr)	77		34 - 132	05/23/14 12:33	05/28/14 16:41	1
p-Terphenyl-d14 (Surr)	123		65 - 153	05/23/14 12:33	05/28/14 16:41	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.96	J	2.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 20:21	1
Barium	7.2		0.50	0.11	mg/Kg		05/23/14 13:50	05/28/14 20:21	1
Cadmium	0.039	J	0.20	0.030	mg/Kg		05/23/14 13:50	05/28/14 20:21	1
Chromium	1.7		0.50	0.20	mg/Kg		05/23/14 13:50	05/28/14 20:21	1
Lead	0.98	J	1.0	0.24	mg/Kg		05/23/14 13:50	05/28/14 20:21	1
Selenium	ND		4.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 20:21	1
Silver	ND		0.60	0.20	mg/Kg		05/23/14 13:50	05/28/14 20:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0082	mg/Kg		05/30/14 10:00	05/31/14 09:48	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-106 (4-5')

Lab Sample ID: 480-60422-27

Date Collected: 05/21/14 16:35

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 95.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		180	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Acenaphthene	ND		180	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Acenaphthylene	ND		180	1.4	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Anthracene	ND		180	4.5	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Benzo[a]anthracene	ND		180	3.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Benzo[a]pyrene	ND	*	180	4.2	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Benzo[b]fluoranthene	ND	*	180	3.4	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Benzo[g,h,i]perylene	ND	*	180	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Benzo[k]fluoranthene	ND	*	180	1.9	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Chrysene	ND		180	1.7	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Dibenz(a,h)anthracene	ND	*	180	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Fluoranthene	ND		180	2.5	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Fluorene	ND		180	4.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Indeno[1,2,3-cd]pyrene	ND	*	180	4.8	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Naphthalene	ND		180	2.9	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Phenanthrene	ND		180	3.7	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1
Pyrene	ND		180	1.1	ug/Kg	☼	05/23/14 12:33	05/28/14 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		37 - 120	05/23/14 12:33	05/28/14 17:04	1
Nitrobenzene-d5 (Surr)	78		34 - 132	05/23/14 12:33	05/28/14 17:04	1
p-Terphenyl-d14 (Surr)	128		65 - 153	05/23/14 12:33	05/28/14 17:04	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3	J	1.9	0.38	mg/Kg		05/23/14 13:50	05/28/14 20:24	1
Barium	6.0		0.47	0.10	mg/Kg		05/23/14 13:50	05/28/14 20:24	1
Cadmium	0.036	J	0.19	0.028	mg/Kg		05/23/14 13:50	05/28/14 20:24	1
Chromium	1.7		0.47	0.19	mg/Kg		05/23/14 13:50	05/28/14 20:24	1
Lead	1.2		0.94	0.23	mg/Kg		05/23/14 13:50	05/28/14 20:24	1
Selenium	ND		3.8	0.38	mg/Kg		05/23/14 13:50	05/28/14 20:24	1
Silver	ND		0.57	0.19	mg/Kg		05/23/14 13:50	05/28/14 20:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0081	mg/Kg		05/30/14 10:00	05/31/14 09:50	1

Client Sample ID: TP-106 (10)

Lab Sample ID: 480-60422-28

Date Collected: 05/21/14 16:38

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		210	2.5	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Acenaphthene	ND		210	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Acenaphthylene	ND		210	1.7	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Anthracene	ND		210	5.3	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Benzo[a]anthracene	ND		210	3.6	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Benzo[a]pyrene	ND	*	210	5.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Benzo[b]fluoranthene	ND	*	210	4.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-106 (10)

Lab Sample ID: 480-60422-28

Date Collected: 05/21/14 16:38

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND	*	210	2.5	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Benzo[k]fluoranthene	ND	*	210	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Chrysene	ND		210	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Dibenz(a,h)anthracene	ND	*	210	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Fluoranthene	ND		210	3.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Fluorene	ND		210	4.7	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Indeno[1,2,3-cd]pyrene	ND	*	210	5.7	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Naphthalene	ND		210	3.4	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Phenanthrene	ND		210	4.3	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Pyrene	ND		210	1.3	ug/Kg	☼	05/23/14 12:33	05/28/14 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		37 - 120				05/23/14 12:33	05/28/14 17:27	1
Nitrobenzene-d5 (Surr)	72		34 - 132				05/23/14 12:33	05/28/14 17:27	1
p-Terphenyl-d14 (Surr)	124		65 - 153				05/23/14 12:33	05/28/14 17:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.90	J	1.9	0.38	mg/Kg		05/23/14 13:50	05/28/14 20:26	1
Barium	6.3		0.47	0.10	mg/Kg		05/23/14 13:50	05/28/14 20:26	1
Cadmium	0.030	J	0.19	0.028	mg/Kg		05/23/14 13:50	05/28/14 20:26	1
Chromium	1.3		0.47	0.19	mg/Kg		05/23/14 13:50	05/28/14 20:26	1
Lead	0.72	J	0.94	0.23	mg/Kg		05/23/14 13:50	05/28/14 20:26	1
Selenium	ND		3.8	0.38	mg/Kg		05/23/14 13:50	05/28/14 20:26	1
Silver	ND		0.56	0.19	mg/Kg		05/23/14 13:50	05/28/14 20:26	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0081	mg/Kg		05/30/14 10:00	05/31/14 09:52	1

Client Sample ID: TP-107 (5-5.5)

Lab Sample ID: 480-60422-29

Date Collected: 05/21/14 17:00

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 97.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		170	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Acenaphthene	ND		170	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Acenaphthylene	ND		170	1.4	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Anthracene	ND		170	4.4	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Benzo[a]anthracene	ND	*	170	3.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Benzo[a]pyrene	ND	*	170	4.1	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Benzo[b]fluoranthene	ND	*	170	3.3	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Benzo[g,h,i]perylene	ND	*	170	2.1	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Benzo[k]fluoranthene	ND	*	170	1.9	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Chrysene	ND	*	170	1.7	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Dibenz(a,h)anthracene	ND	*	170	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Fluoranthene	ND		170	2.5	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Fluorene	ND		170	4.0	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Indeno[1,2,3-cd]pyrene	ND	*	170	4.8	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-107 (5-5.5)

Lab Sample ID: 480-60422-29

Date Collected: 05/21/14 17:00

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 97.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		170	2.9	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Phenanthrene	ND		170	3.6	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Pyrene	ND	*	170	1.1	ug/Kg	☼	05/23/14 12:33	05/28/14 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		37 - 120				05/23/14 12:33	05/28/14 17:51	1
Nitrobenzene-d5 (Surr)	77		34 - 132				05/23/14 12:33	05/28/14 17:51	1
p-Terphenyl-d14 (Surr)	132	*	65 - 153				05/23/14 12:33	05/28/14 17:51	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.96	J	2.1	0.43	mg/Kg		05/23/14 13:50	05/28/14 20:29	1
Barium	8.0		0.53	0.12	mg/Kg		05/23/14 13:50	05/28/14 20:29	1
Cadmium	ND		0.21	0.032	mg/Kg		05/23/14 13:50	05/28/14 20:29	1
Chromium	1.4		0.53	0.21	mg/Kg		05/23/14 13:50	05/28/14 20:29	1
Lead	1.2		1.1	0.26	mg/Kg		05/23/14 13:50	05/28/14 20:29	1
Selenium	ND		4.3	0.43	mg/Kg		05/23/14 13:50	05/28/14 20:29	1
Silver	ND		0.64	0.21	mg/Kg		05/23/14 13:50	05/28/14 20:29	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0079	mg/Kg		05/30/14 10:00	05/31/14 09:54	1

Client Sample ID: TP-107 (10')

Lab Sample ID: 480-60422-30

Date Collected: 05/21/14 17:02

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Acenaphthene	ND		200	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Acenaphthylene	ND		200	1.6	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Anthracene	ND		200	5.0	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Benzo[a]anthracene	ND	*	200	3.4	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Benzo[a]pyrene	ND	*	200	4.7	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Benzo[b]fluoranthene	ND	*	200	3.8	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Benzo[g,h,i]perylene	ND	*	200	2.4	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Benzo[k]fluoranthene	ND	*	200	2.2	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Chrysene	ND	*	200	2.0	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Dibenz(a,h)anthracene	ND	*	200	2.3	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Fluoranthene	ND		200	2.9	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Fluorene	ND		200	4.5	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Indeno[1,2,3-cd]pyrene	ND	*	200	5.4	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Naphthalene	ND		200	3.3	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Phenanthrene	ND		200	4.1	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Pyrene	ND	*	200	1.3	ug/Kg	☼	05/23/14 12:33	05/28/14 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		37 - 120				05/23/14 12:33	05/28/14 18:14	1
Nitrobenzene-d5 (Surr)	83		34 - 132				05/23/14 12:33	05/28/14 18:14	1
p-Terphenyl-d14 (Surr)	140	*	65 - 153				05/23/14 12:33	05/28/14 18:14	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-107 (10')

Lab Sample ID: 480-60422-30

Date Collected: 05/21/14 17:02

Matrix: Solid

Date Received: 05/23/14 01:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.1	J	2.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 20:43	1
Barium	4.3	^	0.51	0.11	mg/Kg		05/23/14 13:50	05/28/14 20:43	1
Cadmium	ND		0.20	0.030	mg/Kg		05/23/14 13:50	05/28/14 20:43	1
Chromium	1.3		0.51	0.20	mg/Kg		05/23/14 13:50	05/28/14 20:43	1
Lead	0.88	J	1.0	0.24	mg/Kg		05/23/14 13:50	05/28/14 20:43	1
Selenium	ND		4.0	0.40	mg/Kg		05/23/14 13:50	05/28/14 20:43	1
Silver	ND		0.61	0.20	mg/Kg		05/23/14 13:50	05/28/14 20:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0081	mg/Kg		05/30/14 10:00	05/31/14 09:55	1

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Date Collected: 05/21/14 17:30

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 86.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1400		320	88	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,1,2,2-Tetrachloroethane	ND		320	52	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		320	160	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,1,2-Trichloroethane	ND		320	67	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,1-Dichloroethane	580		320	98	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,1-Dichloroethene	ND		320	110	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,2,4-Trichlorobenzene	ND		320	120	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,2-Dibromo-3-Chloropropane	ND		320	160	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,2-Dibromoethane	ND		320	56	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,2-Dichlorobenzene	ND		320	81	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,2-Dichloroethane	ND		320	130	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,2-Dichloropropane	ND		320	51	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,3-Dichlorobenzene	ND		320	85	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
1,4-Dichlorobenzene	ND		320	44	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
2-Butanone (MEK)	ND		1600	940	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
2-Hexanone	ND		1600	650	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
4-Methyl-2-pentanone (MIBK)	ND		1600	100	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Acetone	ND		1600	1300	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Benzene	ND		320	60	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Bromodichloromethane	ND		320	64	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Bromoform	ND		320	160	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Bromomethane	ND		320	70	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Carbon disulfide	ND		320	140	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Carbon tetrachloride	ND		320	81	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Chlorobenzene	ND		320	42	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Chloroethane	ND	*	320	66	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Chloroform	ND		320	220	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Chloromethane	ND		320	76	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
cis-1,2-Dichloroethene	660		320	88	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
cis-1,3-Dichloropropene	ND		320	76	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Cyclohexane	190	J	320	71	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Dibromochloromethane	ND		320	150	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Date Collected: 05/21/14 17:30

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 86.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		320	140	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Ethylbenzene	3300		320	92	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Isopropylbenzene	ND		320	48	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Methyl acetate	ND		320	150	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Methyl tert-butyl ether	ND		320	120	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Methylcyclohexane	620		320	150	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Methylene Chloride	ND		320	63	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Styrene	ND		320	77	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Tetrachloroethene	ND		320	43	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Toluene	1600		320	85	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
trans-1,2-Dichloroethene	ND		320	75	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
trans-1,3-Dichloropropene	ND		320	31	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Trichloroethene	14000		320	88	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Trichlorofluoromethane	ND		320	150	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Vinyl chloride	ND		320	110	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Xylenes, Total	16000		640	53	ug/Kg	☼	05/23/14 16:38	05/24/14 15:49	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		53 - 146				05/23/14 16:38	05/24/14 15:49	5
4-Bromofluorobenzene (Surr)	97		49 - 148				05/23/14 16:38	05/24/14 15:49	5
Toluene-d8 (Surr)	106		50 - 149				05/23/14 16:38	05/24/14 15:49	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		7800	1700	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2,4,6-Trichlorophenol	ND		7800	510	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2,4-Dichlorophenol	ND		7800	410	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2,4-Dimethylphenol	ND		7800	2100	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2,4-Dinitrophenol	ND		15000	2700	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2,4-Dinitrotoluene	ND		7800	1200	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2,6-Dinitrotoluene	ND		7800	1900	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2-Chloronaphthalene	ND		7800	520	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2-Chlorophenol	ND		7800	390	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2-Methylnaphthalene	9300		7800	94	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2-Methylphenol	ND		7800	240	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2-Nitroaniline	ND		15000	2500	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
2-Nitrophenol	ND		7800	350	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
3,3'-Dichlorobenzidine	ND		7800	6800	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
3-Nitroaniline	ND		15000	1800	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
4,6-Dinitro-2-methylphenol	ND		15000	2700	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
4-Bromophenyl phenyl ether	ND		7800	2500	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
4-Chloro-3-methylphenol	ND		7800	320	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
4-Chloroaniline	ND		7800	2300	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
4-Chlorophenyl phenyl ether	ND		7800	160	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
4-Methylphenol	820 J		15000	430	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
4-Nitroaniline	ND		15000	860	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
4-Nitrophenol	ND		15000	1900	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Acenaphthene	27000		7800	91	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Acenaphthylene	1100 J		7800	63	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Acetophenone	ND		7800	400	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Date Collected: 05/21/14 17:30

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	52000		7800	200	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Atrazine	ND		7800	340	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Benzaldehyde	ND		7800	850	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Benzo[a]anthracene	100000		7800	130	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Benzo[a]pyrene	88000		7800	190	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Benzo[b]fluoranthene	120000		7800	150	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Benzo[g,h,i]perylene	30000 *		7800	93	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Benzo[k]fluoranthene	64000		7800	85	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Biphenyl	2400 J		7800	480	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
bis (2-chloroisopropyl) ether	ND		7800	810	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Bis(2-chloroethoxy)methane	ND		7800	420	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Bis(2-chloroethyl)ether	ND		7800	670	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Bis(2-ethylhexyl) phthalate	ND		7800	2500	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Butyl benzyl phthalate	ND		7800	2100	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Caprolactam	ND		7800	3300	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Carbazole	26000		7800	89	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Chrysene	120000		7800	77	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Dibenz(a,h)anthracene	11000		7800	91	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Dibenzofuran	18000		7800	80	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Diethyl phthalate	ND		7800	230	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Dimethyl phthalate	ND		7800	200	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Di-n-butyl phthalate	ND		7800	2700	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Di-n-octyl phthalate	ND		7800	180	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Fluoranthene	240000		7800	110	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Fluorene	27000		7800	180	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Hexachlorobenzene	ND		7800	380	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Hexachlorobutadiene	ND		7800	400	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Hexachlorocyclopentadiene	ND		7800	2300	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Hexachloroethane	ND		7800	600	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Indeno[1,2,3-cd]pyrene	27000 *		7800	210	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Isophorone	ND		7800	390	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Naphthalene	21000		7800	130	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Nitrobenzene	ND		7800	340	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
N-Nitrosodi-n-propylamine	ND		7800	610	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
N-Nitrosodiphenylamine	ND		7800	420	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Pentachlorophenol	ND		15000	2700	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Phenol	ND		7800	810	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40
Pyrene	170000		7800	50	ug/Kg	☼	05/23/14 12:34	05/28/14 21:27	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	X	39 - 146	05/23/14 12:34	05/28/14 21:27	40
2-Fluorobiphenyl	64		37 - 120	05/23/14 12:34	05/28/14 21:27	40
2-Fluorophenol (Surr)	59		18 - 120	05/23/14 12:34	05/28/14 21:27	40
Nitrobenzene-d5 (Surr)	57		34 - 132	05/23/14 12:34	05/28/14 21:27	40
Phenol-d5 (Surr)	55		11 - 120	05/23/14 12:34	05/28/14 21:27	40
p-Terphenyl-d14 (Surr)	59	X	65 - 153	05/23/14 12:34	05/28/14 21:27	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	280000		16000	320	ug/Kg	☼	05/23/14 12:34	05/29/14 02:09	80

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Date Collected: 05/21/14 17:30

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 86.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	X	39 - 146	05/23/14 12:34	05/29/14 02:09	80
2-Fluorobiphenyl	71		37 - 120	05/23/14 12:34	05/29/14 02:09	80
2-Fluorophenol (Surr)	0	X	18 - 120	05/23/14 12:34	05/29/14 02:09	80
Nitrobenzene-d5 (Surr)	0	X	34 - 132	05/23/14 12:34	05/29/14 02:09	80
Phenol-d5 (Surr)	0	X	11 - 120	05/23/14 12:34	05/29/14 02:09	80
p-Terphenyl-d14 (Surr)	0	X	65 - 153	05/23/14 12:34	05/29/14 02:09	80

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5700		1700	520	mg/Kg	☼	05/27/14 14:56	05/29/14 08:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	748	X	48 - 125	05/27/14 14:56	05/29/14 08:38	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	05/27/14 10:26	05/28/14 15:22	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	05/27/14 10:26	05/28/14 15:22	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	05/27/14 10:26	05/28/14 15:22	1
PCB-1242	ND		0.22	0.043	mg/Kg	☼	05/27/14 10:26	05/28/14 15:22	1
PCB-1248	ND		0.22	0.043	mg/Kg	☼	05/27/14 10:26	05/28/14 15:22	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	05/27/14 10:26	05/28/14 15:22	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	05/27/14 10:26	05/28/14 15:22	1
PCB-1262	ND		0.22	0.10	mg/Kg	☼	05/27/14 10:26	05/28/14 15:22	1
PCB-1268	ND		0.22	0.10	mg/Kg	☼	05/27/14 10:26	05/28/14 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		46 - 175	05/27/14 10:26	05/28/14 15:22	1
DCB Decachlorobiphenyl	111		47 - 176	05/27/14 10:26	05/28/14 15:22	1

Method: 6010B - Inductively Coupled Plasma - Atomic Emission Spectrometry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		2.1	0.41	mg/Kg		05/23/14 13:50	05/27/14 17:02	1
Barium	48		0.52	0.11	mg/Kg		05/23/14 13:50	05/27/14 17:02	1
Cadmium	0.36		0.21	0.031	mg/Kg		05/23/14 13:50	05/27/14 17:02	1
Chromium	25		0.52	0.21	mg/Kg		05/23/14 13:50	05/27/14 17:02	1
Lead	65		1.0	0.25	mg/Kg		05/23/14 13:50	05/27/14 17:02	1
Selenium	0.41	J	4.1	0.41	mg/Kg		05/23/14 13:50	05/27/14 17:02	1
Silver	ND		0.62	0.21	mg/Kg		05/23/14 13:50	05/27/14 17:02	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.48		0.020	0.0082	mg/Kg		05/30/14 10:00	05/31/14 10:01	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	passed				mL/100g			06/03/14 09:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	0.0030	mg/Kg		06/02/14 03:05	06/02/14 10:13	1
Sulfide, Reactive	ND		10	0.57	mg/Kg		06/02/14 03:05	06/02/14 06:50	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Date Collected: 05/21/14 17:30

Matrix: Solid

Date Received: 05/23/14 01:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			05/27/14 08:49	1
pH	7.60		0.100	0.100	SU			05/23/14 22:57	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (53-146)	BFB (49-148)	TOL (50-149)
480-60422-31	Cistern Disposal	117	97	106
LCS 480-183905/1-A	Lab Control Sample	114	98	105
MB 480-183905/2-A	Method Blank	119	91	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (37-120)	TBP (39-146)	2FP (18-120)	NBZ (34-132)	TPH (65-153)	PHL (11-120)
480-60422-1	S-201	76			70	111	
480-60422-1 MS	S-201	76			68	107	
480-60422-1 MSD	S-201	76			68	110	
480-60422-2	S-202	73			65	107	
480-60422-3	S-203	76			67	112	
480-60422-4	S-204	77			68	115	
480-60422-5	S-205	70			60	115	
480-60422-6	S-206	79			70	115	
480-60422-7	S-207	77			72	114	
480-60422-8	S-208	79			73	115	
480-60422-9	S-209	79			73	114	
480-60422-10	S-210	80			74	94	
480-60422-11	S-211	82			75	93	
480-60422-12	S-212	72			75	94	
480-60422-13	S-213	83			77	110	
480-60422-14	S-214	81			74	104	
480-60422-15	S-215	82			76	106	
480-60422-16	S-216	81			75	104	
480-60422-17	TP-101 (5-5.5')	79			72	93	
480-60422-18	TP-101 (10')	81			75	97	
480-60422-19	TP-102 (4-5')	87			78	100	
480-60422-20	TP-102 (9.5')	83			76	97	
480-60422-21	TP-103 (2-3')	84			76	97	
480-60422-22	TP-103 (4')	49			71	91	
480-60422-23	TP-104 (2-3')	83			76	117	
480-60422-24	TP-104 (4)	87			78	124	
480-60422-25	TP-105 (4-5')	84			77	122	
480-60422-26	TP-105 (10')	86			77	123	
480-60422-27	TP-106 (4-5')	87			78	128	
480-60422-28	TP-106 (10)	82			72	124	
480-60422-29	TP-107 (5-5.5')	86			77	132 *	
480-60422-30	TP-107 (10')	95			83	140 *	
480-60422-31	Cistern Disposal	64	0 X	59	57	59 X	55
480-60422-31 - DL	Cistern Disposal	71	0 X	0 X	0 X	0 X	0 X

TestAmerica Buffalo

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (37-120)	TBP (39-146)	2FP (18-120)	NBZ (34-132)	TPH (65-153)	PHL (11-120)
480-60422-31 MS	Cistern Disposal	86	0 X	79	86	78	90
480-60422-31 MSD	Cistern Disposal	83	95	86	82	77	83
LCS 480-183839/2-A	Lab Control Sample	76			68	110	
LCS 480-183840/2-A	Lab Control Sample	86	93	81	81	73	82
LCS 480-183840/2-A	Lab Control Sample	83			77	89	
MB 480-183839/1-A	Method Blank	75			68	112	
MB 480-183840/1-A	Method Blank	82	82	80	82	72	84
MB 480-183840/1-A	Method Blank	80			74	96	

Surrogate Legend

FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	OTPH
		(48-125)
480-60422-31	Cistern Disposal	748 X
LCS 480-184210/2-A	Lab Control Sample	103
LCS 480-184210/3-A	Lab Control Sample Dup	94
MB 480-184210/1-A	Method Blank	98

Surrogate Legend

OTPH = o-Terphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (46-175)	DCB1 (47-176)
480-60422-31	Cistern Disposal	80	111
LCS 480-184145/2-A	Lab Control Sample	117	114
MB 480-184145/1-A	Method Blank	98	105

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-183905/2-A

Matrix: Solid

Analysis Batch: 183935

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		98	27	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,1,2,2-Tetrachloroethane	ND		98	16	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		98	49	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,1,2-Trichloroethane	ND		98	21	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,1-Dichloroethane	ND		98	30	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,1-Dichloroethene	ND		98	34	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,2,4-Trichlorobenzene	ND		98	37	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,2-Dibromo-3-Chloropropane	ND		98	49	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,2-Dibromoethane	ND		98	17	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,2-Dichlorobenzene	ND		98	25	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,2-Dichloroethane	ND		98	40	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,2-Dichloropropane	ND		98	16	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,3-Dichlorobenzene	ND		98	26	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
1,4-Dichlorobenzene	ND		98	14	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
2-Butanone (MEK)	ND		490	290	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
2-Hexanone	ND		490	200	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
4-Methyl-2-pentanone (MIBK)	ND		490	31	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Acetone	ND		490	400	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Benzene	ND		98	19	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Bromodichloromethane	ND		98	20	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Bromoform	ND		98	49	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Bromomethane	ND		98	22	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Carbon disulfide	ND		98	45	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Carbon tetrachloride	ND		98	25	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Chlorobenzene	ND		98	13	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Chloroethane	ND		98	20	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Chloroform	ND		98	67	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Chloromethane	ND		98	23	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
cis-1,2-Dichloroethene	ND		98	27	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
cis-1,3-Dichloropropene	ND		98	23	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Cyclohexane	ND		98	22	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Dibromochloromethane	ND		98	47	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Dichlorodifluoromethane	ND		98	43	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Ethylbenzene	ND		98	28	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Isopropylbenzene	ND		98	15	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Methyl acetate	ND		98	47	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Methyl tert-butyl ether	ND		98	37	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Methylcyclohexane	ND		98	46	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Methylene Chloride	33.8	J	98	19	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Styrene	ND		98	24	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Tetrachloroethene	ND		98	13	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Toluene	ND		98	26	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
trans-1,2-Dichloroethene	ND		98	23	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
trans-1,3-Dichloropropene	ND		98	9.6	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Trichloroethene	ND		98	27	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Trichlorofluoromethane	ND		98	46	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Vinyl chloride	ND		98	33	ug/Kg		05/23/14 16:38	05/24/14 02:14	1
Xylenes, Total	ND		200	16	ug/Kg		05/23/14 16:38	05/24/14 02:14	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-183905/2-A

Matrix: Solid

Analysis Batch: 183935

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183905

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	119		53 - 146	05/23/14 16:38	05/24/14 02:14	1
4-Bromofluorobenzene (Surr)	91		49 - 148	05/23/14 16:38	05/24/14 02:14	1
Toluene-d8 (Surr)	104		50 - 149	05/23/14 16:38	05/24/14 02:14	1

Lab Sample ID: LCS 480-183905/1-A

Matrix: Solid

Analysis Batch: 183935

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1-Dichloroethane	2470	2450		ug/Kg		100	82 - 138
1,1-Dichloroethene	2470	1510		ug/Kg		61	54 - 144
1,2-Dichlorobenzene	2470	2480		ug/Kg		101	80 - 132
1,2-Dichloroethane	2470	2610		ug/Kg		106	78 - 129
Benzene	2470	2460		ug/Kg		100	75 - 131
Chlorobenzene	2470	2480		ug/Kg		101	80 - 127
cis-1,2-Dichloroethene	2470	2480		ug/Kg		100	79 - 128
Ethylbenzene	2470	2550		ug/Kg		103	78 - 136
Methyl tert-butyl ether	2470	2280		ug/Kg		93	67 - 137
Tetrachloroethene	2470	2340		ug/Kg		95	72 - 141
Toluene	2470	2510		ug/Kg		102	76 - 133
trans-1,2-Dichloroethene	2470	2310		ug/Kg		94	81 - 147
Trichloroethene	2470	2440		ug/Kg		99	77 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	114		53 - 146
4-Bromofluorobenzene (Surr)	98		49 - 148
Toluene-d8 (Surr)	105		50 - 149

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-183839/1-A

Matrix: Solid

Analysis Batch: 184368

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183839

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylnaphthalene	ND		170	2.0	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Acenaphthene	ND		170	2.0	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Acenaphthylene	ND		170	1.4	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Anthracene	ND		170	4.3	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Benzo[a]anthracene	ND		170	2.9	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Benzo[a]pyrene	ND		170	4.0	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Benzo[b]fluoranthene	ND		170	3.2	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Benzo[g,h,i]perylene	ND		170	2.0	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Benzo[k]fluoranthene	ND		170	1.8	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Chrysene	ND		170	1.7	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Fluoranthene	ND		170	2.4	ug/Kg		05/23/14 12:27	05/28/14 18:37	1

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QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-183839/1-A

Matrix: Solid

Analysis Batch: 184368

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		170	3.8	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Indeno[1,2,3-cd]pyrene	ND		170	4.6	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Naphthalene	ND		170	2.8	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Phenanthrene	ND		170	3.5	ug/Kg		05/23/14 12:27	05/28/14 18:37	1
Pyrene	ND		170	1.1	ug/Kg		05/23/14 12:27	05/28/14 18:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		37 - 120	05/23/14 12:27	05/28/14 18:37	1
Nitrobenzene-d5 (Surr)	68		34 - 132	05/23/14 12:27	05/28/14 18:37	1
p-Terphenyl-d14 (Surr)	112		65 - 153	05/23/14 12:27	05/28/14 18:37	1

Lab Sample ID: LCS 480-183839/2-A

Matrix: Solid

Analysis Batch: 184368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1620	1320		ug/Kg		82	53 - 120
Acenaphthylene	1620	1360		ug/Kg		84	58 - 121
Anthracene	1620	1420		ug/Kg		87	62 - 129
Benzo[a]anthracene	1620	1420		ug/Kg		88	65 - 133
Benzo[a]pyrene	1620	1330		ug/Kg		82	64 - 127
Benzo[b]fluoranthene	1620	1320		ug/Kg		82	64 - 135
Benzo[g,h,i]perylene	1620	1300		ug/Kg		80	50 - 152
Benzo[k]fluoranthene	1620	1410		ug/Kg		87	58 - 138
Chrysene	1620	1460		ug/Kg		90	64 - 131
Dibenz(a,h)anthracene	1620	1380		ug/Kg		85	54 - 148
Fluoranthene	1620	1350		ug/Kg		83	62 - 131
Fluorene	1620	1380		ug/Kg		85	63 - 126
Indeno[1,2,3-cd]pyrene	1620	1270		ug/Kg		79	56 - 149
Naphthalene	1620	1230		ug/Kg		76	46 - 120
Phenanthrene	1620	1410		ug/Kg		87	60 - 130
Pyrene	1620	1730		ug/Kg		107	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	76		37 - 120
Nitrobenzene-d5 (Surr)	68		34 - 132
p-Terphenyl-d14 (Surr)	110		65 - 153

Lab Sample ID: 480-60422-1 MS

Matrix: Solid

Analysis Batch: 184368

Client Sample ID: S-201

Prep Type: Total/NA

Prep Batch: 183839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6.2	J	1830	1530		ug/Kg	☼	83	53 - 120
Acenaphthylene	4.1	J	1830	1570		ug/Kg	☼	85	58 - 121
Anthracene	11	J	1830	1610		ug/Kg	☼	87	62 - 129
Benzo[a]anthracene	56	J	1830	1690		ug/Kg	☼	89	65 - 133
Benzo[a]pyrene	56	J	1830	1600		ug/Kg	☼	84	64 - 127

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QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-60422-1 MS

Matrix: Solid

Analysis Batch: 184368

Client Sample ID: S-201

Prep Type: Total/NA

Prep Batch: 183839

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Benzo[b]fluoranthene	77	J	1830	1600		ug/Kg	*	83	64 - 135	
Benzo[g,h,i]perylene	110	J	1830	1900		ug/Kg	*	98	50 - 152	
Benzo[k]fluoranthene	31	J	1830	1610		ug/Kg	*	86	58 - 138	
Chrysene	69	J	1830	1730		ug/Kg	*	91	64 - 131	
Dibenz(a,h)anthracene	29	J	1830	1720		ug/Kg	*	92	54 - 148	
Fluoranthene	120	J	1830	1690		ug/Kg	*	86	62 - 131	
Fluorene	ND		1830	1590		ug/Kg	*	87	63 - 126	
Indeno[1,2,3-cd]pyrene	77	J	1830	2110		ug/Kg	*	111	56 - 149	
Naphthalene	8.1	J	1830	1410		ug/Kg	*	76	46 - 120	
Phenanthrene	81	J	1830	1690		ug/Kg	*	88	60 - 130	
Pyrene	150	J	1830	2100		ug/Kg	*	106	51 - 133	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
2-Fluorobiphenyl	76		37 - 120							
Nitrobenzene-d5 (Surr)	68		34 - 132							
p-Terphenyl-d14 (Surr)	107		65 - 153							

Lab Sample ID: 480-60422-1 MSD

Matrix: Solid

Analysis Batch: 184368

Client Sample ID: S-201

Prep Type: Total/NA

Prep Batch: 183839

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	RPD	Limit
Acenaphthene	6.2	J	1840	1530		ug/Kg	*	83	53 - 120	0	35	
Acenaphthylene	4.1	J	1840	1580		ug/Kg	*	86	58 - 121	1	18	
Anthracene	11	J	1840	1630		ug/Kg	*	88	62 - 129	1	15	
Benzo[a]anthracene	56	J	1840	1700		ug/Kg	*	89	65 - 133	1	15	
Benzo[a]pyrene	56	J	1840	1630		ug/Kg	*	86	64 - 127	2	15	
Benzo[b]fluoranthene	77	J	1840	1650		ug/Kg	*	86	64 - 135	3	15	
Benzo[g,h,i]perylene	110	J	1840	1870		ug/Kg	*	96	50 - 152	1	15	
Benzo[k]fluoranthene	31	J	1840	1670		ug/Kg	*	89	58 - 138	4	22	
Chrysene	69	J	1840	1750		ug/Kg	*	91	64 - 131	1	15	
Dibenz(a,h)anthracene	29	J	1840	1740		ug/Kg	*	93	54 - 148	1	15	
Fluoranthene	120	J	1840	1690		ug/Kg	*	86	62 - 131	0	15	
Fluorene	ND		1840	1590		ug/Kg	*	87	63 - 126	0	15	
Indeno[1,2,3-cd]pyrene	77	J	1840	1720	F2	ug/Kg	*	90	56 - 149	20	15	
Naphthalene	8.1	J	1840	1420		ug/Kg	*	77	46 - 120	1	29	
Phenanthrene	81	J	1840	1680		ug/Kg	*	87	60 - 130	0	15	
Pyrene	150	J	1840	2100		ug/Kg	*	106	51 - 133	0	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
2-Fluorobiphenyl	76		37 - 120									
Nitrobenzene-d5 (Surr)	68		34 - 132									
p-Terphenyl-d14 (Surr)	110		65 - 153									

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-183840/1-A

Matrix: Solid

Analysis Batch: 184368

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		170	2.0	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Acenaphthene	ND		170	2.0	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Acenaphthylene	ND		170	1.4	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Anthracene	ND		170	4.3	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Benzo[a]anthracene	ND		170	2.9	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Benzo[a]pyrene	ND		170	4.0	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Benzo[b]fluoranthene	ND		170	3.3	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Benzo[g,h,i]perylene	ND		170	2.0	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Benzo[k]fluoranthene	ND		170	1.8	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Chrysene	ND		170	1.7	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Fluoranthene	ND		170	2.4	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Fluorene	ND		170	3.9	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Indeno[1,2,3-cd]pyrene	ND		170	4.6	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Naphthalene	6.07	J	170	2.8	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Phenanthrene	ND		170	3.5	ug/Kg		05/23/14 12:33	05/28/14 12:22	1
Pyrene	ND		170	1.1	ug/Kg		05/23/14 12:33	05/28/14 12:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		37 - 120	05/23/14 12:33	05/28/14 12:22	1
Nitrobenzene-d5 (Surr)	74		34 - 132	05/23/14 12:33	05/28/14 12:22	1
p-Terphenyl-d14 (Surr)	96		65 - 153	05/23/14 12:33	05/28/14 12:22	1

Lab Sample ID: MB 480-183840/1-A

Matrix: Solid

Analysis Batch: 184350

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	37	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2,4-Dichlorophenol	ND		170	8.8	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2,4-Dimethylphenol	ND		170	45	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2,4-Dinitrophenol	ND		330	59	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2,4-Dinitrotoluene	ND		170	26	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2,6-Dinitrotoluene	ND		170	41	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2-Chloronaphthalene	ND		170	11	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2-Chlorophenol	ND		170	8.5	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2-Methylnaphthalene	ND		170	2.0	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2-Methylphenol	ND		170	5.2	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2-Nitroaniline	ND		330	54	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
2-Nitrophenol	ND		170	7.7	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
3-Nitroaniline	ND		330	39	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
4,6-Dinitro-2-methylphenol	ND		330	58	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
4-Bromophenyl phenyl ether	ND		170	53	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
4-Chloro-3-methylphenol	ND		170	6.9	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
4-Chloroaniline	ND		170	49	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg		05/23/14 12:33	05/28/14 19:50	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-183840/1-A

Matrix: Solid

Analysis Batch: 184350

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183840

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Methylphenol	ND		330	9.3	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
4-Nitroaniline	ND		330	19	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
4-Nitrophenol	ND		330	41	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Acenaphthene	ND		170	2.0	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Acenaphthylene	ND		170	1.4	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Acetophenone	ND		170	8.6	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Anthracene	ND		170	4.3	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Atrazine	ND		170	7.5	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Benzaldehyde	ND		170	18	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Benzo[a]anthracene	ND		170	2.9	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Benzo[a]pyrene	ND		170	4.0	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Benzo[b]fluoranthene	ND		170	3.3	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Benzo[g,h,i]perylene	ND		170	2.0	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Benzo[k]fluoranthene	ND		170	1.8	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Biphenyl	ND		170	10	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Bis(2-chloroethoxy)methane	ND		170	9.1	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Bis(2-chloroethyl)ether	ND		170	14	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Bis(2-ethylhexyl) phthalate	ND		170	54	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Butyl benzyl phthalate	ND		170	45	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Caprolactam	ND		170	73	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Carbazole	ND		170	1.9	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Chrysene	ND		170	1.7	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Dibenzofuran	ND		170	1.7	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Diethyl phthalate	ND		170	5.1	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Dimethyl phthalate	ND		170	4.4	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Di-n-butyl phthalate	ND		170	58	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Di-n-octyl phthalate	ND		170	3.9	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Fluoranthene	ND		170	2.4	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Fluorene	ND		170	3.9	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Hexachlorobenzene	ND		170	8.3	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Hexachlorobutadiene	ND		170	8.6	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Hexachlorocyclopentadiene	ND		170	51	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Hexachloroethane	ND		170	13	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Indeno[1,2,3-cd]pyrene	ND		170	4.6	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Isophorone	ND		170	8.4	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Naphthalene	ND		170	2.8	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Nitrobenzene	ND		170	7.4	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
N-Nitrosodiphenylamine	ND		170	9.2	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Pentachlorophenol	ND		330	58	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Phenanthrene	ND		170	3.5	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Phenol	ND		170	18	ug/Kg		05/23/14 12:33	05/28/14 19:50	1
Pyrene	ND		170	1.1	ug/Kg		05/23/14 12:33	05/28/14 19:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	82		39 - 146	05/23/14 12:33	05/28/14 19:50	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-183840/1-A

Matrix: Solid

Analysis Batch: 184350

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183840

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	82		37 - 120	05/23/14 12:33	05/28/14 19:50	1
2-Fluorophenol (Surr)	80		18 - 120	05/23/14 12:33	05/28/14 19:50	1
Nitrobenzene-d5 (Surr)	82		34 - 132	05/23/14 12:33	05/28/14 19:50	1
Phenol-d5 (Surr)	84		11 - 120	05/23/14 12:33	05/28/14 19:50	1
p-Terphenyl-d14 (Surr)	72		65 - 153	05/23/14 12:33	05/28/14 19:50	1

Lab Sample ID: LCS 480-183840/2-A

Matrix: Solid

Analysis Batch: 184368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1660	1540		ug/Kg		93	58 - 121
Anthracene	1660	1530		ug/Kg		92	62 - 129
Benzo[a]anthracene	1660	1510		ug/Kg		91	65 - 133
Benzo[a]pyrene	1660	1520		ug/Kg		92	64 - 127
Benzo[b]fluoranthene	1660	1520		ug/Kg		92	64 - 135
Benzo[g,h,i]perylene	1660	1620		ug/Kg		98	50 - 152
Benzo[k]fluoranthene	1660	1460		ug/Kg		88	58 - 138
Chrysene	1660	1600		ug/Kg		96	64 - 131
Dibenz(a,h)anthracene	1660	1600		ug/Kg		97	54 - 148
Fluoranthene	1660	1580		ug/Kg		95	62 - 131
Fluorene	1660	1490		ug/Kg		90	63 - 126
Indeno[1,2,3-cd]pyrene	1660	1600		ug/Kg		97	56 - 149
Naphthalene	1660	1400		ug/Kg		84	46 - 120
Phenanthrene	1660	1530		ug/Kg		93	60 - 130
Pyrene	1660	1490		ug/Kg		90	51 - 133

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	83		37 - 120
Nitrobenzene-d5 (Surr)	77		34 - 132
p-Terphenyl-d14 (Surr)	89		65 - 153

Lab Sample ID: LCS 480-183840/2-A

Matrix: Solid

Analysis Batch: 184350

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorophenol	1660	1330		ug/Kg		81	38 - 120
4-Chloro-3-methylphenol	1660	1500		ug/Kg		91	49 - 125
4-Nitrophenol	3310	3020		ug/Kg		91	43 - 137
Acenaphthene	1660	1450		ug/Kg		87	53 - 120
Acenaphthylene	1660	1500		ug/Kg		91	58 - 121
Anthracene	1660	1520		ug/Kg		91	62 - 129
Atrazine	3310	3100		ug/Kg		94	60 - 164
Benzo[a]anthracene	1660	1440		ug/Kg		87	65 - 133
Benzo[a]pyrene	1660	1540		ug/Kg		93	64 - 127

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-183840/2-A

Matrix: Solid

Analysis Batch: 184350

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	1660	1740		ug/Kg		105	64 - 135
Benzo[g,h,i]perylene	1660	779	*	ug/Kg		47	50 - 152
Benzo[k]fluoranthene	1660	1590		ug/Kg		96	58 - 138
Bis(2-ethylhexyl) phthalate	1660	1310		ug/Kg		79	61 - 133
Chrysene	1660	1530		ug/Kg		92	64 - 131
Dibenz(a,h)anthracene	1660	927		ug/Kg		56	54 - 148
Fluoranthene	1660	1530		ug/Kg		92	62 - 131
Fluorene	1660	1430		ug/Kg		86	63 - 126
Hexachloroethane	1660	1250		ug/Kg		76	41 - 120
Indeno[1,2,3-cd]pyrene	1660	876	*	ug/Kg		53	56 - 149
Naphthalene	1660	1360		ug/Kg		82	46 - 120
N-Nitrosodi-n-propylamine	1660	1340		ug/Kg		81	46 - 120
Pentachlorophenol	3310	3280		ug/Kg		99	33 - 136
Phenanthrene	1660	1480		ug/Kg		90	60 - 130
Phenol	1660	1390		ug/Kg		84	36 - 120
Pyrene	1660	1270		ug/Kg		76	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		39 - 146
2-Fluorobiphenyl	86		37 - 120
2-Fluorophenol (Surr)	81		18 - 120
Nitrobenzene-d5 (Surr)	81		34 - 132
Phenol-d5 (Surr)	82		11 - 120
p-Terphenyl-d14 (Surr)	73		65 - 153

Lab Sample ID: 480-60422-31 MS

Matrix: Solid

Analysis Batch: 184350

Client Sample ID: Cistern Disposal

Prep Type: Total/NA

Prep Batch: 183840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	ND		1880	ND	F1	ug/Kg	☼	0	55 - 125
2-Chlorophenol	ND		1880	1600	J	ug/Kg	☼	85	38 - 120
4-Chloro-3-methylphenol	ND		1880	1560	J	ug/Kg	☼	83	49 - 125
4-Nitrophenol	ND		3750	ND	F1	ug/Kg	☼	0	43 - 137
Acenaphthene	27000		1880	38500	4	ug/Kg	☼	614	53 - 120
Acenaphthylene	1100	J	1880	3430	J F1	ug/Kg	☼	126	58 - 121
Anthracene	52000		1880	82300	4	ug/Kg	☼	1608	62 - 129
Atrazine	ND		3750	3150	J	ug/Kg	☼	84	60 - 164
Benzo[a]anthracene	100000		1880	151000	4	ug/Kg	☼	2571	65 - 133
Benzo[a]pyrene	88000		1880	127000	4	ug/Kg	☼	2079	64 - 127
Benzo[b]fluoranthene	120000		1880	191000	4	ug/Kg	☼	3723	64 - 135
Benzo[g,h,i]perylene	30000	*	1880	39400	4	ug/Kg	☼	493	50 - 152
Benzo[k]fluoranthene	64000		1880	69200	4	ug/Kg	☼	253	58 - 138
Bis(2-ethylhexyl) phthalate	ND		1880	2430	J	ug/Kg	☼	NC	61 - 133
Chrysene	120000		1880	168000	4	ug/Kg	☼	2617	64 - 131
Dibenz(a,h)anthracene	11000		1880	15200	4	ug/Kg	☼	250	54 - 148
Fluoranthene	240000		1880	349000	E 4	ug/Kg	☼	5982	62 - 131
Fluorene	27000		1880	41300	4	ug/Kg	☼	750	63 - 126

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-60422-31 MS

Matrix: Solid

Analysis Batch: 184350

Client Sample ID: Cistern Disposal

Prep Type: Total/NA

Prep Batch: 183840

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexachloroethane	ND		1880	1630	J	ug/Kg	☼	87	41 - 120
Indeno[1,2,3-cd]pyrene	27000	*	1880	35900	4	ug/Kg	☼	454	56 - 149
Naphthalene	21000		1880	32100	4	ug/Kg	☼	568	46 - 120
N-Nitrosodi-n-propylamine	ND		1880	1510	J	ug/Kg	☼	80	46 - 120
Pentachlorophenol	ND		3750	12600	J F1	ug/Kg	☼	335	33 - 136
Phenanthrene	250000		1880	366000	E 4	ug/Kg	☼	6358	60 - 130
Phenol	ND		1880	2300	J F1	ug/Kg	☼	123	36 - 120
Pyrene	170000		1880	237000	4	ug/Kg	☼	3770	51 - 133

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	0	X	39 - 146
2-Fluorobiphenyl	86		37 - 120
2-Fluorophenol (Surr)	79		18 - 120
Nitrobenzene-d5 (Surr)	86		34 - 132
Phenol-d5 (Surr)	90		11 - 120
p-Terphenyl-d14 (Surr)	78		65 - 153

Lab Sample ID: 480-60422-31 MSD

Matrix: Solid

Analysis Batch: 184350

Client Sample ID: Cistern Disposal

Prep Type: Total/NA

Prep Batch: 183840

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
2,4-Dinitrotoluene	ND		1880	ND	F1	ug/Kg	☼	0	55 - 125	NC	20
2-Chlorophenol	ND		1880	1390	J	ug/Kg	☼	74	38 - 120	14	25
4-Chloro-3-methylphenol	ND		1880	ND	F1	ug/Kg	☼	0	49 - 125	NC	27
4-Nitrophenol	ND		3760	ND	F1	ug/Kg	☼	0	43 - 137	NC	25
Acenaphthene	27000		1880	44200	4	ug/Kg	☼	914	53 - 120	14	35
Acenaphthylene	1100	J	1880	3870	J F1	ug/Kg	☼	149	58 - 121	12	18
Anthracene	52000		1880	88400	4	ug/Kg	☼	1928	62 - 129	7	15
Atrazine	ND		3760	3160	J	ug/Kg	☼	84	60 - 164	0	20
Benzo[a]anthracene	100000		1880	167000	4	ug/Kg	☼	3444	65 - 133	10	15
Benzo[a]pyrene	88000		1880	139000	4	ug/Kg	☼	2705	64 - 127	9	15
Benzo[b]fluoranthene	120000		1880	201000	4	ug/Kg	☼	4228	64 - 135	5	15
Benzo[g,h,i]perylene	30000	*	1880	41700	4	ug/Kg	☼	616	50 - 152	6	15
Benzo[k]fluoranthene	64000		1880	88500	4 F2	ug/Kg	☼	1277	58 - 138	24	22
Bis(2-ethylhexyl) phthalate	ND		1880	3150	J F2	ug/Kg	☼	NC	61 - 133	26	15
Chrysene	120000		1880	177000	4	ug/Kg	☼	3068	64 - 131	5	15
Dibenz(a,h)anthracene	11000		1880	16000	4	ug/Kg	☼	290	54 - 148	5	15
Fluoranthene	240000		1880	381000	E 4	ug/Kg	☼	7665	62 - 131	9	15
Fluorene	27000		1880	48800	4 F2	ug/Kg	☼	1141	63 - 126	16	15
Hexachloroethane	ND		1880	1440	J	ug/Kg	☼	77	41 - 120	12	46
Indeno[1,2,3-cd]pyrene	27000	*	1880	38400	4	ug/Kg	☼	588	56 - 149	7	15
Naphthalene	21000		1880	43100	4	ug/Kg	☼	1150	46 - 120	29	29
N-Nitrosodi-n-propylamine	ND		1880	1270	J	ug/Kg	☼	67	46 - 120	17	31
Pentachlorophenol	ND		3760	ND	F1	ug/Kg	☼	0	33 - 136	NC	35
Phenanthrene	250000		1880	423000	E 4	ug/Kg	☼	9340	60 - 130	14	15
Phenol	ND		1880	2510	J F1	ug/Kg	☼	133	36 - 120	9	35
Pyrene	170000		1880	262000	E 4	ug/Kg	☼	5063	51 - 133	10	35

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-60422-31 MSD

Matrix: Solid

Analysis Batch: 184350

Client Sample ID: Cistern Disposal

Prep Type: Total/NA

Prep Batch: 183840

Surrogate	MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	95		39 - 146
2-Fluorobiphenyl	83		37 - 120
2-Fluorophenol (Surr)	86		18 - 120
Nitrobenzene-d5 (Surr)	82		34 - 132
Phenol-d5 (Surr)	83		11 - 120
p-Terphenyl-d14 (Surr)	77		65 - 153

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-184210/1-A

Matrix: Solid

Analysis Batch: 184311

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184210

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		17	5.0	mg/Kg		05/27/14 14:56	05/28/14 14:26	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
o-Terphenyl	98		48 - 125	05/27/14 14:56	05/28/14 14:26	1

Lab Sample ID: LCS 480-184210/2-A

Matrix: Solid

Analysis Batch: 184311

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 184210

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Diesel Range Organics [C10-C28]	48.9	50.8		mg/Kg		104	63 - 127

Surrogate	LCS		Limits
	%Recovery	Qualifier	
o-Terphenyl	103		48 - 125

Lab Sample ID: LCSD 480-184210/3-A

Matrix: Solid

Analysis Batch: 184311

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 184210

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
Diesel Range Organics [C10-C28]	49.5	47.5		mg/Kg		96	63 - 127	7	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
o-Terphenyl	94		48 - 125

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-184145/1-A

Matrix: Solid

Analysis Batch: 184309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg		05/27/14 10:26	05/28/14 10:40	1
PCB-1221	ND		0.23	0.045	mg/Kg		05/27/14 10:26	05/28/14 10:40	1
PCB-1232	ND		0.23	0.045	mg/Kg		05/27/14 10:26	05/28/14 10:40	1
PCB-1242	ND		0.23	0.045	mg/Kg		05/27/14 10:26	05/28/14 10:40	1
PCB-1248	ND		0.23	0.045	mg/Kg		05/27/14 10:26	05/28/14 10:40	1
PCB-1254	ND		0.23	0.11	mg/Kg		05/27/14 10:26	05/28/14 10:40	1
PCB-1260	ND		0.23	0.11	mg/Kg		05/27/14 10:26	05/28/14 10:40	1
PCB-1262	ND		0.23	0.11	mg/Kg		05/27/14 10:26	05/28/14 10:40	1
PCB-1268	ND		0.23	0.11	mg/Kg		05/27/14 10:26	05/28/14 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		46 - 175	05/27/14 10:26	05/28/14 10:40	1
DCB Decachlorobiphenyl	105		47 - 176	05/27/14 10:26	05/28/14 10:40	1

Lab Sample ID: LCS 480-184145/2-A

Matrix: Solid

Analysis Batch: 184309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 184145

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.23	2.79		mg/Kg		125	51 - 185
PCB-1260	2.23	2.79		mg/Kg		125	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	117		46 - 175
DCB Decachlorobiphenyl	114		47 - 176

Method: 6010B - Inductively Coupled Plasma - Atomic Emission Spectrometry

Lab Sample ID: MB 480-183837/1-A

Matrix: Solid

Analysis Batch: 184306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.1	0.42	mg/Kg		05/23/14 13:50	05/27/14 16:29	1
Barium	ND		0.52	0.12	mg/Kg		05/23/14 13:50	05/27/14 16:29	1
Cadmium	ND		0.21	0.031	mg/Kg		05/23/14 13:50	05/27/14 16:29	1
Chromium	ND		0.52	0.21	mg/Kg		05/23/14 13:50	05/27/14 16:29	1
Lead	ND		1.0	0.25	mg/Kg		05/23/14 13:50	05/27/14 16:29	1
Selenium	ND		4.2	0.42	mg/Kg		05/23/14 13:50	05/27/14 16:29	1
Silver	ND		0.63	0.21	mg/Kg		05/23/14 13:50	05/27/14 16:29	1

Lab Sample ID: LCSSRM 480-183837/2-A

Matrix: Solid

Analysis Batch: 184306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183837

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	88.3	69.2		mg/Kg		78.4	69.0 - 131.2

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 6010B - Inductively Coupled Plasma - Atomic Emission Spectrometry (Continued)

Lab Sample ID: LCSSRM 480-183837/2-A
Matrix: Solid
Analysis Batch: 184306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183837

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	210	155		mg/Kg		73.8	73.3 - 126.7
Cadmium	143	106		mg/Kg		74.4	72.7 - 127.3
Chromium	86.7	62.9		mg/Kg		72.6	69.1 - 131.3
Lead	97.8	76.3		mg/Kg		78.1	70.8 - 128.7
Selenium	127	98.7		mg/Kg		77.9	66.6 - 133.9
Silver	66.1	50.0		mg/Kg		75.7	67.1 - 132.9

Lab Sample ID: 480-60422-31 MS
Matrix: Solid
Analysis Batch: 184306

Client Sample ID: Cistern Disposal
Prep Type: Total/NA
Prep Batch: 183837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.9		40.9	44.5		mg/Kg		97	75 - 125
Barium	48		40.9	111	F1	mg/Kg		154	75 - 125
Cadmium	0.36		40.9	37.8		mg/Kg		92	75 - 125
Chromium	25		40.9	61.8		mg/Kg		89	75 - 125
Lead	65		40.9	156	F1	mg/Kg		223	75 - 125
Selenium	0.41	J	40.9	36.5		mg/Kg		89	75 - 125
Silver	ND		10.2	9.30		mg/Kg		91	75 - 125

Lab Sample ID: 480-60422-31 MSD
Matrix: Solid
Analysis Batch: 184306

Client Sample ID: Cistern Disposal
Prep Type: Total/NA
Prep Batch: 183837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	4.9		42.7	48.0		mg/Kg		101	75 - 125	8	20
Barium	48		42.7	133	F1	mg/Kg		200	75 - 125	18	20
Cadmium	0.36		42.7	42.3		mg/Kg		98	75 - 125	11	20
Chromium	25		42.7	67.8		mg/Kg		100	75 - 125	9	20
Lead	65		42.7	141	F1	mg/Kg		176	75 - 125	11	20
Selenium	0.41	J	42.7	41.8		mg/Kg		98	75 - 125	13	20
Silver	ND		10.7	10.5		mg/Kg		99	75 - 125	12	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-183828/1-A
Matrix: Solid
Analysis Batch: 184551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.9	0.39	mg/Kg		05/23/14 13:50	05/28/14 18:52	1
Barium	ND		0.49	0.11	mg/Kg		05/23/14 13:50	05/28/14 18:52	1
Cadmium	ND		0.19	0.029	mg/Kg		05/23/14 13:50	05/28/14 18:52	1
Chromium	ND		0.49	0.19	mg/Kg		05/23/14 13:50	05/28/14 18:52	1

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QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-183828/1-A
Matrix: Solid
Analysis Batch: 184551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.97	0.23	mg/Kg		05/23/14 13:50	05/28/14 18:52	1
Selenium	ND		3.9	0.39	mg/Kg		05/23/14 13:50	05/28/14 18:52	1
Silver	ND		0.58	0.19	mg/Kg		05/23/14 13:50	05/28/14 18:52	1

Lab Sample ID: LCSSRM 480-183828/2-A
Matrix: Solid
Analysis Batch: 184551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183828

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	88.4	91.1		mg/Kg		103.1	69.0 - 131.2
Barium	210	207		mg/Kg		98.6	73.3 - 126.7
Cadmium	143	156		mg/Kg		109.1	72.7 - 127.3
Chromium	86.8	96.5		mg/Kg		111.2	69.1 - 131.3
Lead	97.9	104		mg/Kg		106.0	70.8 - 128.7
Selenium	127	136		mg/Kg		107.4	66.6 - 133.9
Silver	66.2	67.0		mg/Kg		101.2	67.1 - 132.9

Lab Sample ID: 480-60422-11 MS
Matrix: Solid
Analysis Batch: 184551

Client Sample ID: S-211
Prep Type: Total/NA
Prep Batch: 183828

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.71	J	44.0	43.9		mg/Kg		98	75 - 125
Barium	5.5		44.0	51.2		mg/Kg		104	75 - 125
Cadmium	0.044	J	44.0	42.9		mg/Kg		97	75 - 125
Chromium	20		44.0	63.5		mg/Kg		98	75 - 125
Lead	1.1		44.0	44.4		mg/Kg		98	75 - 125
Selenium	ND		44.0	43.0		mg/Kg		98	75 - 125
Silver	ND		11.0	10.8		mg/Kg		98	75 - 125

Lab Sample ID: 480-60422-11 MSD
Matrix: Solid
Analysis Batch: 184551

Client Sample ID: S-211
Prep Type: Total/NA
Prep Batch: 183828

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.71	J	38.8	39.3		mg/Kg		100	75 - 125	11	20
Barium	5.5		38.8	46.6		mg/Kg		106	75 - 125	10	20
Cadmium	0.044	J	38.8	38.2		mg/Kg		98	75 - 125	12	20
Chromium	20		38.8	58.1		mg/Kg		97	75 - 125	9	20
Lead	1.1		38.8	39.7		mg/Kg		100	75 - 125	11	20
Selenium	ND		38.8	38.1		mg/Kg		98	75 - 125	12	20
Silver	ND		9.69	9.58		mg/Kg		99	75 - 125	12	20

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 480-184620/1-A
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.019	0.0078	mg/Kg		05/30/14 10:00	05/31/14 09:57	1

Lab Sample ID: LCSSRM 480-184620/2-A
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184620

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	3.98	3.65		mg/Kg		91.6	51.0 - 149.0

Lab Sample ID: 480-60422-31 MS
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: Cistern Disposal
Prep Type: Total/NA
Prep Batch: 184620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	0.48		0.343	0.786		mg/Kg		90	75 - 125

Lab Sample ID: 480-60422-31 MSD
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: Cistern Disposal
Prep Type: Total/NA
Prep Batch: 184620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	0.48		0.294	0.823		mg/Kg		117	75 - 125	5	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-184619/1-A
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0080	mg/Kg		05/30/14 10:00	05/31/14 09:05	1

Lab Sample ID: LCSSRM 480-184619/2-A
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184619

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	9.03	8.94		mg/Kg		99.0	51.3 - 148.4

Lab Sample ID: 480-60422-16 MS
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: S-216
Prep Type: Total/NA
Prep Batch: 184619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	0.024		0.322	0.334		mg/Kg		96	80 - 120

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QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: 480-60422-16 MSD
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: S-216
Prep Type: Total/NA
Prep Batch: 184619

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Hg	0.024		0.345	0.341		mg/Kg		92	80 - 120	2	20

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-184240/1
Matrix: Solid
Analysis Batch: 184240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-185139/1-A
Matrix: Solid
Analysis Batch: 185302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	0.0030	mg/Kg		06/02/14 03:05	06/02/14 10:13	1

Lab Sample ID: LCS 480-185139/2-A
Matrix: Solid
Analysis Batch: 185302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	450		mg/Kg		45	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-185164/1-A
Matrix: Solid
Analysis Batch: 185165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		10	0.57	mg/Kg		06/02/14 03:05	06/02/14 06:50	1

Lab Sample ID: LCS 480-185164/2-A
Matrix: Solid
Analysis Batch: 185165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	1000	802		mg/Kg		80	10 - 100

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QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method: 9045C - pH

Lab Sample ID: LCS 480-183952/23
Matrix: Solid
Analysis Batch: 183952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.010		SU		100	99 - 101

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Association Summary

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

GC/MS VOA

Prep Batch: 183905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	5035A	
LCS 480-183905/1-A	Lab Control Sample	Total/NA	Solid	5035A	
MB 480-183905/2-A	Method Blank	Total/NA	Solid	5035A	

Analysis Batch: 183935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-183905/1-A	Lab Control Sample	Total/NA	Solid	8260C	183905
MB 480-183905/2-A	Method Blank	Total/NA	Solid	8260C	183905

Analysis Batch: 183987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	8260C	183905

GC/MS Semi VOA

Prep Batch: 183839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-1	S-201	Total/NA	Solid	3550C	
480-60422-1 MS	S-201	Total/NA	Solid	3550C	
480-60422-1 MSD	S-201	Total/NA	Solid	3550C	
480-60422-2	S-202	Total/NA	Solid	3550C	
480-60422-3	S-203	Total/NA	Solid	3550C	
480-60422-4	S-204	Total/NA	Solid	3550C	
480-60422-5	S-205	Total/NA	Solid	3550C	
480-60422-6	S-206	Total/NA	Solid	3550C	
480-60422-7	S-207	Total/NA	Solid	3550C	
480-60422-8	S-208	Total/NA	Solid	3550C	
480-60422-9	S-209	Total/NA	Solid	3550C	
480-60422-10	S-210	Total/NA	Solid	3550C	
480-60422-11	S-211	Total/NA	Solid	3550C	
480-60422-12	S-212	Total/NA	Solid	3550C	
480-60422-13	S-213	Total/NA	Solid	3550C	
480-60422-14	S-214	Total/NA	Solid	3550C	
480-60422-15	S-215	Total/NA	Solid	3550C	
480-60422-16	S-216	Total/NA	Solid	3550C	
LCS 480-183839/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-183839/1-A	Method Blank	Total/NA	Solid	3550C	

Prep Batch: 183840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-17	TP-101 (5-5.5')	Total/NA	Solid	3550C	
480-60422-18	TP-101 (10')	Total/NA	Solid	3550C	
480-60422-19	TP-102 (4-5')	Total/NA	Solid	3550C	
480-60422-20	TP-102 (9.5')	Total/NA	Solid	3550C	
480-60422-21	TP-103 (2-3')	Total/NA	Solid	3550C	
480-60422-22	TP-103 (4')	Total/NA	Solid	3550C	
480-60422-23	TP-104 (2-3')	Total/NA	Solid	3550C	
480-60422-24	TP-104 (4')	Total/NA	Solid	3550C	
480-60422-25	TP-105 (4-5')	Total/NA	Solid	3550C	
480-60422-26	TP-105 (10')	Total/NA	Solid	3550C	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

GC/MS Semi VOA (Continued)

Prep Batch: 183840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-27	TP-106 (4-5')	Total/NA	Solid	3550C	
480-60422-28	TP-106 (10')	Total/NA	Solid	3550C	
480-60422-29	TP-107 (5-5.5')	Total/NA	Solid	3550C	
480-60422-30	TP-107 (10')	Total/NA	Solid	3550C	
480-60422-31 - DL	Cistern Disposal	Total/NA	Solid	3550C	
480-60422-31	Cistern Disposal	Total/NA	Solid	3550C	
480-60422-31 MS	Cistern Disposal	Total/NA	Solid	3550C	
480-60422-31 MSD	Cistern Disposal	Total/NA	Solid	3550C	
LCS 480-183840/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-183840/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 184350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	8270D	183840
480-60422-31 MS	Cistern Disposal	Total/NA	Solid	8270D	183840
480-60422-31 MSD	Cistern Disposal	Total/NA	Solid	8270D	183840
LCS 480-183840/2-A	Lab Control Sample	Total/NA	Solid	8270D	183840
MB 480-183840/1-A	Method Blank	Total/NA	Solid	8270D	183840

Analysis Batch: 184368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-1	S-201	Total/NA	Solid	8270D	183839
480-60422-1 MS	S-201	Total/NA	Solid	8270D	183839
480-60422-1 MSD	S-201	Total/NA	Solid	8270D	183839
480-60422-2	S-202	Total/NA	Solid	8270D	183839
480-60422-3	S-203	Total/NA	Solid	8270D	183839
480-60422-4	S-204	Total/NA	Solid	8270D	183839
480-60422-5	S-205	Total/NA	Solid	8270D	183839
480-60422-6	S-206	Total/NA	Solid	8270D	183839
480-60422-7	S-207	Total/NA	Solid	8270D	183839
480-60422-8	S-208	Total/NA	Solid	8270D	183839
480-60422-9	S-209	Total/NA	Solid	8270D	183839
480-60422-17	TP-101 (5-5.5')	Total/NA	Solid	8270D	183840
480-60422-18	TP-101 (10')	Total/NA	Solid	8270D	183840
480-60422-19	TP-102 (4-5')	Total/NA	Solid	8270D	183840
480-60422-20	TP-102 (9.5')	Total/NA	Solid	8270D	183840
480-60422-21	TP-103 (2-3')	Total/NA	Solid	8270D	183840
480-60422-22	TP-103 (4')	Total/NA	Solid	8270D	183840
480-60422-23	TP-104 (2-3')	Total/NA	Solid	8270D	183840
480-60422-24	TP-104 (4')	Total/NA	Solid	8270D	183840
480-60422-25	TP-105 (4-5')	Total/NA	Solid	8270D	183840
480-60422-26	TP-105 (10')	Total/NA	Solid	8270D	183840
480-60422-27	TP-106 (4-5')	Total/NA	Solid	8270D	183840
480-60422-28	TP-106 (10')	Total/NA	Solid	8270D	183840
480-60422-29	TP-107 (5-5.5')	Total/NA	Solid	8270D	183840
480-60422-30	TP-107 (10')	Total/NA	Solid	8270D	183840
LCS 480-183839/2-A	Lab Control Sample	Total/NA	Solid	8270D	183839
LCS 480-183840/2-A	Lab Control Sample	Total/NA	Solid	8270D	183840
MB 480-183839/1-A	Method Blank	Total/NA	Solid	8270D	183839
MB 480-183840/1-A	Method Blank	Total/NA	Solid	8270D	183840

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

GC/MS Semi VOA (Continued)

Analysis Batch: 184383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31 - DL	Cistern Disposal	Total/NA	Solid	8270D	183840

Analysis Batch: 184439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-10	S-210	Total/NA	Solid	8270D	183839
480-60422-11	S-211	Total/NA	Solid	8270D	183839
480-60422-12	S-212	Total/NA	Solid	8270D	183839
480-60422-13	S-213	Total/NA	Solid	8270D	183839
480-60422-14	S-214	Total/NA	Solid	8270D	183839
480-60422-15	S-215	Total/NA	Solid	8270D	183839
480-60422-16	S-216	Total/NA	Solid	8270D	183839

GC Semi VOA

Prep Batch: 184145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	3550C	
LCS 480-184145/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-184145/1-A	Method Blank	Total/NA	Solid	3550C	

Prep Batch: 184210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	3550C	
LCS 480-184210/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-184210/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 480-184210/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 184309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	8082A	184145
LCS 480-184145/2-A	Lab Control Sample	Total/NA	Solid	8082A	184145
MB 480-184145/1-A	Method Blank	Total/NA	Solid	8082A	184145

Analysis Batch: 184311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	8015D	184210
LCS 480-184210/2-A	Lab Control Sample	Total/NA	Solid	8015D	184210
LCSD 480-184210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	184210
MB 480-184210/1-A	Method Blank	Total/NA	Solid	8015D	184210

Metals

Prep Batch: 183828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-11	S-211	Total/NA	Solid	3050B	
480-60422-11 MS	S-211	Total/NA	Solid	3050B	
480-60422-11 MSD	S-211	Total/NA	Solid	3050B	
480-60422-12	S-212	Total/NA	Solid	3050B	
480-60422-13	S-213	Total/NA	Solid	3050B	
480-60422-14	S-214	Total/NA	Solid	3050B	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Metals (Continued)

Prep Batch: 183828 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-15	S-215	Total/NA	Solid	3050B	
480-60422-16	S-216	Total/NA	Solid	3050B	
480-60422-17	TP-101 (5-5.5')	Total/NA	Solid	3050B	
480-60422-18	TP-101 (10')	Total/NA	Solid	3050B	
480-60422-19	TP-102 (4-5')	Total/NA	Solid	3050B	
480-60422-20	TP-102 (9.5')	Total/NA	Solid	3050B	
480-60422-21	TP-103 (2-3')	Total/NA	Solid	3050B	
480-60422-22	TP-103 (4')	Total/NA	Solid	3050B	
480-60422-23	TP-104 (2-3')	Total/NA	Solid	3050B	
480-60422-24	TP-104 (4')	Total/NA	Solid	3050B	
480-60422-25	TP-105 (4-5')	Total/NA	Solid	3050B	
480-60422-26	TP-105 (10')	Total/NA	Solid	3050B	
480-60422-27	TP-106 (4-5')	Total/NA	Solid	3050B	
480-60422-28	TP-106 (10')	Total/NA	Solid	3050B	
480-60422-29	TP-107 (5-5.5')	Total/NA	Solid	3050B	
480-60422-30	TP-107 (10')	Total/NA	Solid	3050B	
LCSSRM 480-183828/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-183828/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 183837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	3050B	
480-60422-31 MS	Cistern Disposal	Total/NA	Solid	3050B	
480-60422-31 MSD	Cistern Disposal	Total/NA	Solid	3050B	
LCSSRM 480-183837/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-183837/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 184306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	6010B	183837
480-60422-31 MS	Cistern Disposal	Total/NA	Solid	6010B	183837
480-60422-31 MSD	Cistern Disposal	Total/NA	Solid	6010B	183837
LCSSRM 480-183837/2-A	Lab Control Sample	Total/NA	Solid	6010B	183837
MB 480-183837/1-A	Method Blank	Total/NA	Solid	6010B	183837

Analysis Batch: 184551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-11	S-211	Total/NA	Solid	6010C	183828
480-60422-11 MS	S-211	Total/NA	Solid	6010C	183828
480-60422-11 MSD	S-211	Total/NA	Solid	6010C	183828
480-60422-12	S-212	Total/NA	Solid	6010C	183828
480-60422-13	S-213	Total/NA	Solid	6010C	183828
480-60422-14	S-214	Total/NA	Solid	6010C	183828
480-60422-15	S-215	Total/NA	Solid	6010C	183828
480-60422-16	S-216	Total/NA	Solid	6010C	183828
480-60422-17	TP-101 (5-5.5')	Total/NA	Solid	6010C	183828
480-60422-18	TP-101 (10')	Total/NA	Solid	6010C	183828
480-60422-19	TP-102 (4-5')	Total/NA	Solid	6010C	183828
480-60422-20	TP-102 (9.5')	Total/NA	Solid	6010C	183828
480-60422-21	TP-103 (2-3')	Total/NA	Solid	6010C	183828
480-60422-22	TP-103 (4')	Total/NA	Solid	6010C	183828

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Metals (Continued)

Analysis Batch: 184551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-23	TP-104 (2-3')	Total/NA	Solid	6010C	183828
480-60422-24	TP-104 (4)	Total/NA	Solid	6010C	183828
480-60422-25	TP-105 (4-5')	Total/NA	Solid	6010C	183828
480-60422-26	TP-105 (10')	Total/NA	Solid	6010C	183828
480-60422-27	TP-106 (4-5')	Total/NA	Solid	6010C	183828
480-60422-28	TP-106 (10)	Total/NA	Solid	6010C	183828
480-60422-29	TP-107 (5-5.5)	Total/NA	Solid	6010C	183828
480-60422-30	TP-107 (10')	Total/NA	Solid	6010C	183828
LCSSRM 480-183828/2-A	Lab Control Sample	Total/NA	Solid	6010C	183828
MB 480-183828/1-A	Method Blank	Total/NA	Solid	6010C	183828

Prep Batch: 184619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-11	S-211	Total/NA	Solid	7471B	
480-60422-12	S-212	Total/NA	Solid	7471B	
480-60422-13	S-213	Total/NA	Solid	7471B	
480-60422-14	S-214	Total/NA	Solid	7471B	
480-60422-15	S-215	Total/NA	Solid	7471B	
480-60422-16	S-216	Total/NA	Solid	7471B	
480-60422-16 MS	S-216	Total/NA	Solid	7471B	
480-60422-16 MSD	S-216	Total/NA	Solid	7471B	
480-60422-17	TP-101 (5-5.5')	Total/NA	Solid	7471B	
480-60422-18	TP-101 (10')	Total/NA	Solid	7471B	
480-60422-19	TP-102 (4-5')	Total/NA	Solid	7471B	
480-60422-20	TP-102 (9.5')	Total/NA	Solid	7471B	
480-60422-21	TP-103 (2-3')	Total/NA	Solid	7471B	
480-60422-22	TP-103 (4')	Total/NA	Solid	7471B	
480-60422-23	TP-104 (2-3')	Total/NA	Solid	7471B	
480-60422-24	TP-104 (4)	Total/NA	Solid	7471B	
480-60422-25	TP-105 (4-5')	Total/NA	Solid	7471B	
480-60422-26	TP-105 (10')	Total/NA	Solid	7471B	
480-60422-27	TP-106 (4-5')	Total/NA	Solid	7471B	
480-60422-28	TP-106 (10)	Total/NA	Solid	7471B	
480-60422-29	TP-107 (5-5.5)	Total/NA	Solid	7471B	
480-60422-30	TP-107 (10')	Total/NA	Solid	7471B	
LCSSRM 480-184619/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 480-184619/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 184620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	7471A	
480-60422-31 MS	Cistern Disposal	Total/NA	Solid	7471A	
480-60422-31 MSD	Cistern Disposal	Total/NA	Solid	7471A	
LCSSRM 480-184620/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 480-184620/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 185090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-12	S-212	Total/NA	Solid	6010C	183828

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Metals (Continued)

Analysis Batch: 185183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-11	S-211	Total/NA	Solid	7471B	184619
480-60422-12	S-212	Total/NA	Solid	7471B	184619
480-60422-13	S-213	Total/NA	Solid	7471B	184619
480-60422-14	S-214	Total/NA	Solid	7471B	184619
480-60422-15	S-215	Total/NA	Solid	7471B	184619
480-60422-16	S-216	Total/NA	Solid	7471B	184619
480-60422-16 MS	S-216	Total/NA	Solid	7471B	184619
480-60422-16 MSD	S-216	Total/NA	Solid	7471B	184619
480-60422-17	TP-101 (5-5.5')	Total/NA	Solid	7471B	184619
480-60422-18	TP-101 (10')	Total/NA	Solid	7471B	184619
480-60422-19	TP-102 (4-5')	Total/NA	Solid	7471B	184619
480-60422-20	TP-102 (9.5')	Total/NA	Solid	7471B	184619
480-60422-21	TP-103 (2-3')	Total/NA	Solid	7471B	184619
480-60422-22	TP-103 (4')	Total/NA	Solid	7471B	184619
480-60422-23	TP-104 (2-3')	Total/NA	Solid	7471B	184619
480-60422-24	TP-104 (4)	Total/NA	Solid	7471B	184619
480-60422-25	TP-105 (4-5')	Total/NA	Solid	7471B	184619
480-60422-26	TP-105 (10')	Total/NA	Solid	7471B	184619
480-60422-27	TP-106 (4-5')	Total/NA	Solid	7471B	184619
480-60422-28	TP-106 (10)	Total/NA	Solid	7471B	184619
480-60422-29	TP-107 (5-5.5)	Total/NA	Solid	7471B	184619
480-60422-30	TP-107 (10')	Total/NA	Solid	7471B	184619
480-60422-31	Cistern Disposal	Total/NA	Solid	7471A	184620
480-60422-31 MS	Cistern Disposal	Total/NA	Solid	7471A	184620
480-60422-31 MSD	Cistern Disposal	Total/NA	Solid	7471A	184620
LCSSRM 480-184619/2-A	Lab Control Sample	Total/NA	Solid	7471B	184619
LCSSRM 480-184620/2-A	Lab Control Sample	Total/NA	Solid	7471A	184620
MB 480-184619/1-A	Method Blank	Total/NA	Solid	7471B	184619
MB 480-184620/1-A	Method Blank	Total/NA	Solid	7471A	184620

General Chemistry

Analysis Batch: 183883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-1	S-201	Total/NA	Solid	Moisture	
480-60422-2	S-202	Total/NA	Solid	Moisture	
480-60422-3	S-203	Total/NA	Solid	Moisture	
480-60422-4	S-204	Total/NA	Solid	Moisture	
480-60422-5	S-205	Total/NA	Solid	Moisture	
480-60422-6	S-206	Total/NA	Solid	Moisture	
480-60422-7	S-207	Total/NA	Solid	Moisture	
480-60422-8	S-208	Total/NA	Solid	Moisture	
480-60422-9	S-209	Total/NA	Solid	Moisture	
480-60422-10	S-210	Total/NA	Solid	Moisture	
480-60422-11	S-211	Total/NA	Solid	Moisture	
480-60422-12	S-212	Total/NA	Solid	Moisture	
480-60422-13	S-213	Total/NA	Solid	Moisture	
480-60422-14	S-214	Total/NA	Solid	Moisture	
480-60422-15	S-215	Total/NA	Solid	Moisture	
480-60422-16	S-216	Total/NA	Solid	Moisture	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

General Chemistry (Continued)

Analysis Batch: 183883 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-17	TP-101 (5-5.5')	Total/NA	Solid	Moisture	
480-60422-18	TP-101 (10')	Total/NA	Solid	Moisture	
480-60422-19	TP-102 (4-5')	Total/NA	Solid	Moisture	
480-60422-20	TP-102 (9.5')	Total/NA	Solid	Moisture	
480-60422-21	TP-103 (2-3')	Total/NA	Solid	Moisture	
480-60422-22	TP-103 (4')	Total/NA	Solid	Moisture	
480-60422-23	TP-104 (2-3')	Total/NA	Solid	Moisture	
480-60422-24	TP-104 (4')	Total/NA	Solid	Moisture	
480-60422-25	TP-105 (4-5')	Total/NA	Solid	Moisture	
480-60422-26	TP-105 (10')	Total/NA	Solid	Moisture	
480-60422-27	TP-106 (4-5')	Total/NA	Solid	Moisture	
480-60422-28	TP-106 (10')	Total/NA	Solid	Moisture	
480-60422-29	TP-107 (5-5.5')	Total/NA	Solid	Moisture	
480-60422-30	TP-107 (10')	Total/NA	Solid	Moisture	
480-60422-31	Cistern Disposal	Total/NA	Solid	Moisture	

Analysis Batch: 183952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	9045C	
LCS 480-183952/23	Lab Control Sample	Total/NA	Solid	9045C	

Analysis Batch: 184240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	1010	
LCS 480-184240/1	Lab Control Sample	Total/NA	Solid	1010	

Prep Batch: 185139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	7.3.3	
LCS 480-185139/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
MB 480-185139/1-A	Method Blank	Total/NA	Solid	7.3.3	

Prep Batch: 185164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	7.3.4	
LCS 480-185164/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
MB 480-185164/1-A	Method Blank	Total/NA	Solid	7.3.4	

Analysis Batch: 185165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	9034	185164
LCS 480-185164/2-A	Lab Control Sample	Total/NA	Solid	9034	185164
MB 480-185164/1-A	Method Blank	Total/NA	Solid	9034	185164

Analysis Batch: 185302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	9012	185139
LCS 480-185139/2-A	Lab Control Sample	Total/NA	Solid	9012	185139
MB 480-185139/1-A	Method Blank	Total/NA	Solid	9012	185139

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

General Chemistry (Continued)

Analysis Batch: 185420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	Total/NA	Solid	9095B	

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Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-201

Lab Sample ID: 480-60422-1

Date Collected: 05/21/14 11:30

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 20:09	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-202

Lab Sample ID: 480-60422-2

Date Collected: 05/21/14 11:31

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 20:32	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-203

Lab Sample ID: 480-60422-3

Date Collected: 05/21/14 11:32

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 20:55	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-204

Lab Sample ID: 480-60422-4

Date Collected: 05/21/14 11:33

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 21:18	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-205

Lab Sample ID: 480-60422-5

Date Collected: 05/21/14 11:34

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 21:40	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-206

Lab Sample ID: 480-60422-6

Date Collected: 05/21/14 11:45

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 22:03	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-207

Lab Sample ID: 480-60422-7

Date Collected: 05/21/14 11:46

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 22:26	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-208

Lab Sample ID: 480-60422-8

Date Collected: 05/21/14 11:47

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 22:49	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-209

Lab Sample ID: 480-60422-9

Date Collected: 05/21/14 11:48

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 23:12	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-210

Lab Sample ID: 480-60422-10

Date Collected: 05/21/14 11:49

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184439	05/29/14 04:05	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-211

Lab Sample ID: 480-60422-11

Date Collected: 05/21/14 12:45

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184439	05/29/14 04:28	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:05	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:09	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-212

Lab Sample ID: 480-60422-12

Date Collected: 05/21/14 13:05

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 58.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		10	184439	05/29/14 04:51	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		10	185090	05/30/14 13:00	MTM2	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:19	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		5	185183	05/31/14 10:47	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-213

Lab Sample ID: 480-60422-13

Date Collected: 05/21/14 13:06

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		10	184439	05/29/14 05:14	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:22	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:13	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-214

Lab Sample ID: 480-60422-14

Date Collected: 05/21/14 13:07

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184439	05/29/14 05:37	ANM	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: S-214

Lab Sample ID: 480-60422-14

Date Collected: 05/21/14 13:07

Matrix: Solid

Date Received: 05/23/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:36	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:14	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-215

Lab Sample ID: 480-60422-15

Date Collected: 05/21/14 13:08

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184439	05/29/14 06:00	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:39	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:16	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: S-216

Lab Sample ID: 480-60422-16

Date Collected: 05/21/14 13:15

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183839	05/23/14 12:27	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184439	05/29/14 06:23	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:42	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:18	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-101 (5-5.5')

Lab Sample ID: 480-60422-17

Date Collected: 05/21/14 14:32

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 13:09	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:45	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:29	LRK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-101 (5-5.5')

Lab Sample ID: 480-60422-17

Date Collected: 05/21/14 14:32

Matrix: Solid

Date Received: 05/23/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-101 (10')

Lab Sample ID: 480-60422-18

Date Collected: 05/21/14 14:30

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 13:32	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:47	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:31	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-102 (4-5')

Lab Sample ID: 480-60422-19

Date Collected: 05/21/14 14:38

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 13:55	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:50	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:32	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-102 (9.5')

Lab Sample ID: 480-60422-20

Date Collected: 05/21/14 14:45

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 14:19	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:53	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:34	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-103 (2-3')

Lab Sample ID: 480-60422-21

Date Collected: 05/21/14 15:35

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 14:42	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 19:56	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:36	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-103 (4')

Lab Sample ID: 480-60422-22

Date Collected: 05/21/14 15:38

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		20	184368	05/28/14 15:06	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 20:10	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:38	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-104 (2-3')

Lab Sample ID: 480-60422-23

Date Collected: 05/21/14 15:55

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 15:30	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 20:13	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:39	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-104 (4)

Lab Sample ID: 480-60422-24

Date Collected: 05/21/14 15:56

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 15:53	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 20:15	MTM2	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-104 (4)

Lab Sample ID: 480-60422-24

Date Collected: 05/21/14 15:56

Matrix: Solid

Date Received: 05/23/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:41	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-105 (4-5')

Lab Sample ID: 480-60422-25

Date Collected: 05/21/14 16:20

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 16:17	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 20:18	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:43	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-105 (10')

Lab Sample ID: 480-60422-26

Date Collected: 05/21/14 16:23

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 16:41	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 20:21	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:48	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-106 (4-5')

Lab Sample ID: 480-60422-27

Date Collected: 05/21/14 16:35

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 17:04	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 20:24	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:50	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: TP-106 (10)

Lab Sample ID: 480-60422-28

Date Collected: 05/21/14 16:38

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 17:27	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 20:26	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:52	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-107 (5-5.5)

Lab Sample ID: 480-60422-29

Date Collected: 05/21/14 17:00

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 17:51	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 20:29	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:54	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: TP-107 (10')

Lab Sample ID: 480-60422-30

Date Collected: 05/21/14 17:02

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			183840	05/23/14 12:33	AJM	TAL BUF
Total/NA	Analysis	8270D		1	184368	05/28/14 18:14	ANM	TAL BUF
Total/NA	Prep	3050B			183828	05/23/14 13:50	EHD	TAL BUF
Total/NA	Analysis	6010C		1	184551	05/28/14 20:43	MTM2	TAL BUF
Total/NA	Prep	7471B			184619	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 09:55	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Date Collected: 05/21/14 17:30

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			183905	05/23/14 16:38	GTG	TAL BUF
Total/NA	Analysis	8260C		5	183987	05/24/14 15:49	GTG	TAL BUF
Total/NA	Prep	3550C			183840	05/23/14 12:34	AJM	TAL BUF
Total/NA	Analysis	8270D		40	184350	05/28/14 21:27	ANM	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Date Collected: 05/21/14 17:30

Matrix: Solid

Date Received: 05/23/14 01:00

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C	DL		183840	05/23/14 12:34	AJM	TAL BUF
Total/NA	Analysis	8270D	DL	80	184383	05/29/14 02:09	ANM	TAL BUF
Total/NA	Prep	3550C			184210	05/27/14 14:56	AJM	TAL BUF
Total/NA	Analysis	8015D		10	184311	05/29/14 08:38	DLE	TAL BUF
Total/NA	Prep	3550C			184145	05/27/14 10:26	CPH	TAL BUF
Total/NA	Analysis	8082A		1	184309	05/28/14 15:22	JMM	TAL BUF
Total/NA	Prep	3050B			183837	05/23/14 13:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	184306	05/27/14 17:02	MTM2	TAL BUF
Total/NA	Prep	7471A			184620	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471A		1	185183	05/31/14 10:01	LRK	TAL BUF
Total/NA	Analysis	1010		1	184240	05/27/14 08:49	RP	TAL BUF
Total/NA	Prep	7.3.3			185139	06/02/14 03:05	LAW	TAL BUF
Total/NA	Analysis	9012		1	185302	06/02/14 10:13	LAW	TAL BUF
Total/NA	Prep	7.3.4			185164	06/02/14 03:05	LAW	TAL BUF
Total/NA	Analysis	9034		1	185165	06/02/14 06:50	LAW	TAL BUF
Total/NA	Analysis	9045C		1	183952	05/23/14 22:57	KS	TAL BUF
Total/NA	Analysis	9095B		1	185420	06/03/14 09:58	KJ1	TAL BUF
Total/NA	Analysis	Moisture		1	183883	05/23/14 14:55	CW	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Certification Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Massachusetts	State Program	1	M-NY044	06-30-14
Rhode Island	State Program	1	LAO00328	12-30-14

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Method Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010B	Inductively Coupled Plasma - Atomic Emission Spectrometry	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471A	Mercury (CVAA)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9045C	pH	SW846	TAL BUF
9095B	Paint Filter	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60422-1	S-201	Solid	05/21/14 11:30	05/23/14 01:00
480-60422-2	S-202	Solid	05/21/14 11:31	05/23/14 01:00
480-60422-3	S-203	Solid	05/21/14 11:32	05/23/14 01:00
480-60422-4	S-204	Solid	05/21/14 11:33	05/23/14 01:00
480-60422-5	S-205	Solid	05/21/14 11:34	05/23/14 01:00
480-60422-6	S-206	Solid	05/21/14 11:45	05/23/14 01:00
480-60422-7	S-207	Solid	05/21/14 11:46	05/23/14 01:00
480-60422-8	S-208	Solid	05/21/14 11:47	05/23/14 01:00
480-60422-9	S-209	Solid	05/21/14 11:48	05/23/14 01:00
480-60422-10	S-210	Solid	05/21/14 11:49	05/23/14 01:00
480-60422-11	S-211	Solid	05/21/14 12:45	05/23/14 01:00
480-60422-12	S-212	Solid	05/21/14 13:05	05/23/14 01:00
480-60422-13	S-213	Solid	05/21/14 13:06	05/23/14 01:00
480-60422-14	S-214	Solid	05/21/14 13:07	05/23/14 01:00
480-60422-15	S-215	Solid	05/21/14 13:08	05/23/14 01:00
480-60422-16	S-216	Solid	05/21/14 13:15	05/23/14 01:00
480-60422-17	TP-101 (5-5.5')	Solid	05/21/14 14:32	05/23/14 01:00
480-60422-18	TP-101 (10')	Solid	05/21/14 14:30	05/23/14 01:00
480-60422-19	TP-102 (4-5')	Solid	05/21/14 14:38	05/23/14 01:00
480-60422-20	TP-102 (9.5')	Solid	05/21/14 14:45	05/23/14 01:00
480-60422-21	TP-103 (2-3')	Solid	05/21/14 15:35	05/23/14 01:00
480-60422-22	TP-103 (4')	Solid	05/21/14 15:38	05/23/14 01:00
480-60422-23	TP-104 (2-3')	Solid	05/21/14 15:55	05/23/14 01:00
480-60422-24	TP-104 (4')	Solid	05/21/14 15:56	05/23/14 01:00
480-60422-25	TP-105 (4-5')	Solid	05/21/14 16:20	05/23/14 01:00
480-60422-26	TP-105 (10')	Solid	05/21/14 16:23	05/23/14 01:00
480-60422-27	TP-106 (4-5')	Solid	05/21/14 16:35	05/23/14 01:00
480-60422-28	TP-106 (10')	Solid	05/21/14 16:38	05/23/14 01:00
480-60422-29	TP-107 (5-5.5')	Solid	05/21/14 17:00	05/23/14 01:00
480-60422-30	TP-107 (10')	Solid	05/21/14 17:02	05/23/14 01:00
480-60422-31	Cistern Disposal	Solid	05/21/14 17:30	05/23/14 01:00



Tracking No(s): **30054**
Page: **1 of 4**
Job #:

480-60422 Chain of Custody

Client Information:
Client Contact: **Maureen Geringer**
Company: **Resource Controls**
Address: **474 Broadway Pawtucket RI 02860**
Client's Phone: **(401) 726-6860**
Client's Contact Email: **lgeringer@resourcecontrols.com**
Client's Project Name/Number: **Resource Controls**
Sample Collection Site Name & Location: **Boonville Realty Co / 7131A 90 Bay Spring Annual Remington 71**

PWS ID Number: **5 day**
Turnaround Time (TAT) Requested (business days): **5 day**
Quote #:
PO #: **7131A-8**
WO #:
SSOW#:

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hr Clock)	Sample Type: C-Comp G-Grab	Matrix Type **	Analyses Requested	
					Performs MS/MSD on This Sampler? (Y/N)	Was the Sample Field Filtered? (Y/N)
10E-S	5/8/14	1130	G	S	X	X
20E-S		1131			X	X
30E-S		1132			X	X
40E-S		1133			X	X
50E-S		1134			X	X
60E-S		1145			X	X
70E-S		1146			X	X
80E-S		1147			X	X
90E-S		1148			X	X
100E-S		1149			X	X

Preservation Codes:
A - Hydrochloric Acid
B - Sodium Hydroxide
C - Zinc Acetate
D - Nitric Acid
E - Sodium Bisulfite
F - Methanol
H - Ascorbic Acid
J - Deionized Water
M - Hexane
N - No Preservative
P - Sodium Sulfate
Q - Sodium Sulfite
R - Sodium Thiosulfate
S - Sulfuric Acid
Z - other (specify):

Regulatory Programs:
MCP GW/IS1
RCP CT RSR
DEP Form EDD Required
eDEP Filing NPDES

SUBCONTRACT POLICY:
advance to permit TestAmerica to use certified, subcontract labs, without any instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in your work order.

Special Instructions & Notes:

Return To Client	Disposal By Lab	Archive For	Months
<input type="checkbox"/>	<input checked="" type="checkbox"/>		

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

Relinquished by: **MRG** Date/Time: **5/22/14 11:50** Company: **RA**
Relinquished by: **MRG** Date/Time: **5/22/14 01:00** Company: **RA**
Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No **Custody Seal No.:** **2.4, 2.6 #1**



Chain of Custody Record

Boston Service Center
240 Bear Hill Road - Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica Westfield
53 Southhampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (413) 572-3707

Client Information:
 Client Contact: Danielle Fitzinger
 Company: Resource Controls
 Address: 174 Broadway
 City: Pawtucket
 State and Zip: RI 02860
 Client's Phone: 401-786-6860
 Client's Contact Email: d.fitzinger@resourcecontrols.com
 Client's Project Name/Number: H31A
 Sample Collection Site Name & Location: 90 Bay Springs, Pawtucket, RI

Sample Information:
 Sample Collector's Name (Please Print Neatly): Steve Hoffman
 Sample Collector's Phone: (401) 786-6860 x222
 Lab PIV's E-Mail: Steve.Hoffman
 Carrier Tracking No(s): 30055
 Page: Pg 2 of 4
 Job #:

Analyses Requested:
 Turnaround Time (TAT) Requested (business days): 5 day
 PWS ID Number:
 Quote #: 731A-8
 PO #: 731A-8
 WO #:
 SSOW#:

Preservation Codes:
 J - Deionized Water
 A - Hydrochloric Acid
 M - Hexane
 B - Sodium Hydroxide
 N - No Preservative
 C - Zinc Acetate
 P - Sodium Sulfate
 D - Nitric Acid
 Q - Sodium Sulfite
 E - Sodium Bisulfite
 R - Sodium Thiosulfate
 F - Methanol
 H - Ascorbic Acid
 Z - other (specify):
 Regulatory Programs:
 MCP GW/IS1
 RCP CT RSR
 DEP Form EDD Required
 eDEP Filing NPDES
 SUBCONTRACT POLICY: advance to permit TestAmerica to use certified, unless you provide instructions to the contrary, or subcontract labs, without any specification which sub-contract labs are or are not to be used, you agree in your work order.

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hr Clock)	Sample Type: C-Comp G-Grab	Matrix Type **	Was the Sample Field Filtered? (Y/N)	Perform MS/MSD on This Sample? (Y/N)	Analyses Requested	Total Number of Containers (per line)	Special Instructions & Notes:
f 84	5/18/14	1845	G	S					
S-818		1305			X				HOLD
S-813		1306			X				HOLD
S-814		1307			X				HOLD
S-815		1308			X				HOLD
S-816		1315			X				
TP-101(5-5'S)		143X			X				
TP-101(10')		1438			X				
TP-102(4-5')		1438			X				
TP-102(9.5')		1445			X				

Special Instructions & Notes:
 MA DISPOSED
 REAR METALS
 RCH

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months
NOTE!! ALL SAMPLES MUST BE TRANSPORTED ON ICE !!

Relinquished by: [Signature] Date/Time: 5/22/14 11:50 Company: RCA
Relinquished by: [Signature] Date/Time: 5/23/14 0100 Company: TCU
Relinquished by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: 2.4 2.6 7.1

Client Information:
 Client Contact: Danielle Gotsinger
 Company: Resome Controls
 Address: 174 Broadway
 City: Pawtucket
 State and Zip: RI 02860
 Client's Phone: 401-785-6000
 Client's Contact Email: d.gotsinger@resomecontrols.com
 Client's Project Name/Number: 731A
 Sample Collection Site Name & Location: 90 Bay Spine Rd, Pawtucket, RI

Lab PM: Steve Heenan
Lab PM's E-Mail: Steve.Heenan
Carrier Tracking No(s): 30056
Page: 3 of 4
Job #:

Analyses Requested

Sample ID Number:	Turnaround Time (TAT) Requested (business days):	Was the Sample Field Filtered? (Y/N)	Perform MS/MSD on This Sampler? (Y/N)	MA disposal	Preservation Codes:
TP-103 (2-31)	5 day	X	X	X	J - Deionized Water M - Hexane N - No Preservative P - Sodium Sulfate E - Sodium Bisulfite F - Methanol H - Ascorbic Acid S - Sulfuric Acid
TP-103 (41)		X	X	X	
TP-104 (2-31)		X	X	X	
TP-104 (41)		X	X	X	
TP-105 (4-51)		X	X	X	
TP-105 (101)		X	X	X	
TP-106 (4-51)		X	X	X	
TP-106 (101)		X	X	X	
TP-107 (5-5.5)		X	X	X	
TP-107 (101)		X	X	X	

Regulatory Programs:
 MCP GW1/S1
 RCP CT RSR
 DEP Form EDD Required
 eDEP Filing NPDES

Special Instructions & Notes:

Preservation Codes:
 A - Hydrochloric Acid
 B - Sodium Hydroxide
 C - Zinc Acetate
 D - Nitric Acid
 E - Sodium Bisulfite
 F - Methanol
 H - Ascorbic Acid
 S - Sulfuric Acid
 Z - other (specify):

Regulatory Programs:
 MCP GW1/S1
 RCP CT RSR
 DEP Form EDD Required
 eDEP Filing NPDES

Subcontract Policy:
 Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED ON ICE !!

Relinquished by: M. C. Gotsinger Date/Time: 5/20/14 11:50 Company: RCA
Relinquished by: M. C. Gotsinger Date/Time: 5/22/14 01:20 Company: RA
Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
Custody Seal No.: 2-4, 2-6 #1

Login Sample Receipt Checklist

Client: Resource Control Associates, Inc.

Job Number: 480-60422-1

Login Number: 60422

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-60422-2

Client Project/Site: Bay Spring Realty CO / 7131A

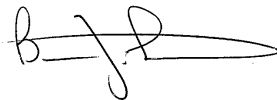
For:

Resource Control Associates, Inc.

474 Broadway

Pawtucket, Rhode Island 02860

Attn: Ms. Danielle Eastman-Getsinger



Authorized for release by:

6/27/2014 3:12:57 PM

Brian Fischer, Manager of Project Management

(716)504-9835

brian.fischer@testamericainc.com

Designee for

Steve Hartmann, Service Center Manager

(413)572-4000

steve.hartmann@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

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8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	19

Definitions/Glossary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Job ID: 480-60422-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-60422-2

Comments

No additional comments.

Receipt

The samples were received on 5/23/2014 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.6° C.

Except:

The following sample was activated for TCLP Volatiles analysis by the client on 6/20/14: Cistern Disposal (480-60422-31). This analysis was not originally requested on the chain-of-custody (COC).

GC/MS VOA

Method(s) 8260C: The following sample was analyzed outside of analytical holding time due to analysis being assigned after hold time was expired: Cistern Disposal (480-60422-31).

Method(s) 8260C: The following sample was diluted due to the nature of the TCLP matrix: (LB 480-189319/1-A), Cistern Disposal (480-60422-31). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0069	J H	0.010	0.0041	mg/L	10		8260C	TCLP
Trichloroethene	0.019	H	0.010	0.0046	mg/L	10		8260C	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



Client Sample Results

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Date Collected: 05/21/14 17:30

Matrix: Solid

Date Received: 05/23/14 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0069	J H	0.010	0.0041	mg/L			06/26/14 02:37	10
Carbon tetrachloride	ND	H	0.010	0.0027	mg/L			06/26/14 02:37	10
Chlorobenzene	ND	H	0.010	0.0075	mg/L			06/26/14 02:37	10
Chloroform	ND	H	0.010	0.0034	mg/L			06/26/14 02:37	10
1,2-Dichloroethane	ND	H	0.010	0.0021	mg/L			06/26/14 02:37	10
1,1-Dichloroethene	ND	H	0.010	0.0029	mg/L			06/26/14 02:37	10
2-Butanone (MEK)	ND	H	0.050	0.013	mg/L			06/26/14 02:37	10
Tetrachloroethene	ND	H	0.010	0.0036	mg/L			06/26/14 02:37	10
Trichloroethene	0.019	H	0.010	0.0046	mg/L			06/26/14 02:37	10
Vinyl chloride	ND	H	0.010	0.0090	mg/L			06/26/14 02:37	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137					06/26/14 02:37	10
Toluene-d8 (Surr)	105		71 - 126					06/26/14 02:37	10
4-Bromofluorobenzene (Surr)	105		73 - 120					06/26/14 02:37	10

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	TOL (71-126)	BFB (73-120)
LCS 480-189885/5	Lab Control Sample	108	104	103
MB 480-189885/6	Method Blank	109	106	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	TOL (71-126)	BFB (73-120)
480-60422-31	Cistern Disposal	107	105	105
LB 480-189319/1-A	Method Blank	108	107	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-189885/6

Matrix: Solid

Analysis Batch: 189885

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00041	mg/L			06/26/14 00:05	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			06/26/14 00:05	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			06/26/14 00:05	1
Chloroform	ND		0.0010	0.00034	mg/L			06/26/14 00:05	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			06/26/14 00:05	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			06/26/14 00:05	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			06/26/14 00:05	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			06/26/14 00:05	1
Trichloroethene	ND		0.0010	0.00046	mg/L			06/26/14 00:05	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			06/26/14 00:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		66 - 137		06/26/14 00:05	1
Toluene-d8 (Surr)	106		71 - 126		06/26/14 00:05	1
4-Bromofluorobenzene (Surr)	107		73 - 120		06/26/14 00:05	1

Lab Sample ID: LCS 480-189885/5

Matrix: Solid

Analysis Batch: 189885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0250	0.0261		mg/L		104	71 - 124
Chlorobenzene	0.0250	0.0253		mg/L		101	72 - 120
1,2-Dichloroethane	0.0250	0.0259		mg/L		104	75 - 127
1,1-Dichloroethene	0.0250	0.0251		mg/L		101	58 - 121
Tetrachloroethene	0.0250	0.0259		mg/L		104	74 - 122
Trichloroethene	0.0250	0.0262		mg/L		105	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120

Lab Sample ID: LB 480-189319/1-A

Matrix: Solid

Analysis Batch: 189885

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			06/26/14 01:13	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			06/26/14 01:13	10
Chlorobenzene	ND		0.010	0.0075	mg/L			06/26/14 01:13	10
Chloroform	ND		0.010	0.0034	mg/L			06/26/14 01:13	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			06/26/14 01:13	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			06/26/14 01:13	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			06/26/14 01:13	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			06/26/14 01:13	10
Trichloroethene	ND		0.010	0.0046	mg/L			06/26/14 01:13	10

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-189319/1-A

Matrix: Solid

Analysis Batch: 189885

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.010	0.0090	mg/L			06/26/14 01:13	10

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137		06/26/14 01:13	10
Toluene-d8 (Surr)	107		71 - 126		06/26/14 01:13	10
4-Bromofluorobenzene (Surr)	107		73 - 120		06/26/14 01:13	10

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

GC/MS VOA

Leach Batch: 189319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	TCLP	Solid	1311	
LB 480-189319/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 189885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60422-31	Cistern Disposal	TCLP	Solid	8260C	189319
LB 480-189319/1-A	Method Blank	TCLP	Solid	8260C	189319
LCS 480-189885/5	Lab Control Sample	Total/NA	Solid	8260C	
MB 480-189885/6	Method Blank	Total/NA	Solid	8260C	

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Client Sample ID: Cistern Disposal

Lab Sample ID: 480-60422-31

Date Collected: 05/21/14 17:30

Matrix: Solid

Date Received: 05/23/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			189319	06/23/14 12:06	MRB	TAL BUF
TCLP	Analysis	8260C		10	189885	06/26/14 02:37	RAS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Certification Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Massachusetts	State Program	1	M-NY044	06-30-14 *
Rhode Island	State Program	1	LAO00328	12-30-14

* Certification renewal pending - certification considered valid.



Method Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring Realty CO / 7131A

TestAmerica Job ID: 480-60422-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60422-31	Cistern Disposal	Solid	05/21/14 17:30	05/23/14 01:00

1

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Tracking No(s): **30054**
Page: **1 of 4**
Job #:

480-60422 Chain of Custody

Client Information:
Client Contact: **Maureen Geringer**
Company: **Resourc Controls**
Address: **474 Broadway Pawtucket RI 02860**
Client's Phone: **(401) 728-6860**
Client's Contact Email: **lgearing@resourccontrols.com**
Client's Project Name/Number: **Resourc Controls**
Sample Collection Site Name & Location: **Bowling Green CO / 7131A 90 Bay Spring Annual Benchmarking 71**

PWS ID Number: **5 day**
Turnaround Time (TAT) Requested (business days): **5 day**
Quote #:
PO #: **7131A-8**
WO #:
SSOW#:

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hr Clock)	Sample Type: C-Comp G-Grab	Matrix Type **	Analyses Requested	
					Performs MS/MSD on This Sampler? (Y/N)	Was the Sample Field Filtered? (Y/N)
102-S	5/21/14	1130	G	S	X	X
202-S	5/21/14	1131	G	S	X	X
302-S	5/21/14	1132	G	S	X	X
402-S	5/21/14	1133	G	S	X	X
502-S	5/21/14	1134	G	S	X	X
602-S	5/21/14	1145	G	S	X	X
702-S	5/21/14	1146	G	S	X	X
802-S	5/21/14	1147	G	S	X	X
902-S	5/21/14	1148	G	S	X	X
1002-S	5/21/14	1149	G	S	X	X

Special Instructions & Notes:
MA disposal
RCA-8 metals
RHH

Preservation Codes:
A - Hydrochloric Acid
B - Sodium Hydroxide
C - Zinc Acetate
D - Nitric Acid
E - Sodium Bisulfite
F - Methanol
H - Ascorbic Acid
J - Deionized Water
M - Hexane
N - No Preservative
P - Sodium Sulfate
Q - Sodium Sulfite
R - Sodium Thiosulfate
S - Sulfuric Acid
Z - other (specify):

Regulatory Programs:
MCP GW/IS1
RCP CT RSR
DEP Form EDD Required
eDEP Filing NPDES

SUBCONTRACT POLICY:
advance to permit TestAmerica to use certified, subcontract labs, without any instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in your work order.

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months
NOTE!! ALL SAMPLES MUST BE TRANSPORTED ON ICE !!

Relinquished by: **SMC** Date/Time: **5/22/14 11:50** Company: **RCA**
Relinquished by: **M.C.** Date/Time: **5/23/14 01:00** Company: **TRC**
Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
Custody Seal No.: **2.4, 2.6 #1**

Chain of Custody Record

Boston Service Center
240 Bear Hill Road - Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica Westfield
53 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (413) 572-3707

Client Information:
 Client Contact: Danielle Fitzinger
 Company: Resource Controls
 Address: 174 Broadway
 City: Pawtucket
 State and Zip: RI 02860
 Client's Phone: 401-786-6860
 Client's Contact Email: d.fitzinger@resourcecontrols.com
 Client's Project Name/Number: H31A
 Sample Collection Site Name & Location: 90 Bay Springs, Pawtucket, RI

Sample Information:
 Sample Collector's Name (Please Print Neatly): Steve Hoffman
 Sample Collector's Phone: (401) 786-6860 x222
 Lab PIV's E-Mail: Steve.Hoffman
 Carrier Tracking No(s): 30055
 Page: Pg 2 of 4
 Job #:

Analyses Requested:
 Turnaround Time (TAT) Requested (business days): 5 day
 PWS ID Number:
 Quote #:
 PO #: H31A-8
 WO #:
 SSOW#:

Preservation Codes:
 J - Deionized Water
 A - Hydrochloric Acid
 M - Hexane
 B - Sodium Hydroxide
 N - No Preservative
 C - Zinc Acetate
 P - Sodium Sulfate
 D - Nitric Acid
 Q - Sodium Sulfite
 E - Sodium Bisulfite
 R - Sodium Thiosulfate
 F - Methanol
 H - Ascorbic Acid
 Z - other (specify):

Regulatory Programs:
 MCP GW/IS1
 RCP CT RSR
 DEP Form EDD Required
 eDEP Filing NPDES

SUBCONTRACT POLICY:
 Unless you provide instructions to the contrary, or specify which sub-contract labels are or are not to be used, you agree in advance to permit TestAmerica to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Page	Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hr Clock)	Sample Type: C-Comp G-Grab	Matrix Type **	Was the Sample Field Filtered? (Y/N)	Perform MS/MSD on This Sample? (Y/N)	Analyses Requested	Total Number of Containers (per line)	Special Instructions & Notes:
1	f 19	5/18/14	1845	G	S	X	X	REAR metals		HOLD
	S-818		1305			X	X			HOLD
	S-813		1306			X	X			HOLD
	S-814		1307			X	X			HOLD
	S-815		1308			X	X			HOLD
	S-816		1315			X	X			
	TP-101(5-5'S)		143X			X	X			
	TP-101(10')		1438			X	X			
	TP-102 (4-5')		1438			X	X			
	TP-102 (9.5')		1445			X	X			

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED ON ICE !!

Relinquished by: [Signature] Date/Time: 5/22/14 11:50 Company: RCA
 Relinquished by: [Signature] Date/Time: 5/23/14 0100 Company: TCU
 Relinquished by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: 2.4, 2.6, 7.1

Chain of Custody Record

Client Information:		Sample Collector's Name (Please Print Neatly): <u>Steve Heenan</u>		Carrier Tracking No(s): <u>30056</u>	
Client Contact: <u>Danielle Gotsinger</u>		Lab PM: <u>Steve Heenan</u>		Page: <u>3 of 4</u>	
Company: <u>Resome Controls</u>		Lab PM's E-Mail: <u>Steve Heenan</u>		Job #: _____	
Address: <u>174 Broadway</u>		Sample Collector's Phone: <u>401-785-6560 x 228</u>		Preservation Codes: A - Hydrochloric Acid B - Sodium Hydroxide C - Zinc Acetate D - Nitric Acid E - Sodium Bisulfite F - Methanol H - Ascorbic Acid J - Deionized Water M - Hexane N - No Preservative P - Sodium Sulfate Q - Sodium Sulfite R - Sodium Thiosulfate S - Sulfuric Acid Z - other (specify): _____	
City: <u>Pawtucket</u>		PWS ID Number: _____		Regulatory Programs: MCP <input type="checkbox"/> GW/IS1 <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/> eDEP Filing <input type="checkbox"/> NPDES <input type="checkbox"/>	
State and Zip: <u>RI 02860</u>		Turnaround Time (TAT) Requested (business days): <u>5 day</u>		SUBCONTRACT POLICY: Unless you provide in-advance to permit TestAmerica to use certified, instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in full compliance with the additional notification made by us, as necessary, to fulfill your work order.	
Client's Phone: <u>401-785-6560</u>		Quote #: _____		Special Instructions & Notes:	
Client's Contact Email: <u>d.gotsinger@resomecontrols.com</u>		PO #: <u>731A-K</u>		Total Number of Containers (per line): _____	
Client's Project Name/Number: <u>731A</u>		WO #: _____		Perform MS/MSD on This Sampler? (Y/N) _____	
Sample Collection Site Name & Location: <u>90 Bay Spine Rd, Pawtucket, RI</u>		SSOW#: _____		Was the Sample Field Filtered? (Y/N) _____	
Sample Identification		Sample Date (MM/DD/YY)		Sample Collection Time (24 Hr Clock)	
TP-103 (2-31)		5/8/14		1535 G S	
TP-103 (41)				1538	
TP-104 (2-31)				1555	
TP-104 (41)				1556	
TP-105 (4-51)				1620	
TP-105 (101)				1623	
TP-106 (4-51)				1635	
TP-106 (101)				1638	
TP-107 (5-5.5)				1700	
TP-107 (101)				1702	
Possible Hazard Identification (please check off each that may apply):		Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/> Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: <u>M. C. Gotsinger</u>		Date/Time: <u>5/20/14 11:50</u>		Company: <u>RCA</u>	
Relinquished by: <u>M. C. Gotsinger</u>		Date/Time: <u>5/22/14 01:20</u>		Company: <u>RA</u>	
Relinquished by: _____		Date/Time: _____		Company: _____	
Custody Seals Intact: <u>Yes</u>		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: <u>2.4, 2.6 #1</u>	



Client Information:		Client Contact: <u>Danielle Gotsinger</u>		Lab PM: <u>Steve Houtman</u>		Carrier Tracking No(s): <u>30057</u>	
Company: <u>Reserve Controls</u>		Sample Collector's Name (Please Print Neatly): <u>Emily Garsinet</u>		Lab PM's E-Mail: <u>Steve Houtman</u>		Page: <u>4 of 4</u>	
Address: <u>474 Broadway</u>		Sample Collector's Phone: <u>401-786-6560 x788</u>		Job #:		COC No: <u>30057</u>	
City: <u>Pawtucket</u>		Turnaround Time (TAT) Requested (business days):		Analyses Requested		Preservation Codes:	
State and Zip: <u>RI 02860</u>		Quote #:		Perform MS/MSD on This Sample? (Y/N)		A - Hydrochloric Acid M - Hexane N - No Preservative P - Sodium Sulfate Q - Sodium Bisulfite R - Sodium Thiosulfate S - Sulfuric Acid Z - other (specify):	
Client's Phone: <u>(401) 786-6560</u>		PO #: <u>781A-8</u>		Was the Sample Field Filtered? (Y/N)		J - Deionized Water B - Sodium Hydroxide C - Zinc Acetate D - Nitric Acid E - Sodium Bisulfite F - Methanol H - Ascorbic Acid Z - other (specify):	
Client's Contact Email: <u>danielle.gotsinger@reservecontrols.com</u>		WO #: <u>781A-8</u>		Total Number of Containers (per line)		MCP <input type="checkbox"/> GW/IS1 <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/> eDEP Filing <input type="checkbox"/> NPDES <input type="checkbox"/>	
Client's Project Name/Number: <u>H31A</u>		SSOW#:		Special Instructions & Notes:		SUBCONTRACT POLICY: advance to permit Test-America to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.	
Sample Collection Site Name & Location: <u>90 Bay Springs, Barrington, RI</u>		Sample Collection Date (MM/DD/YY)		Matrix Type **		Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in	
Sample Identification		Sample Collection Time (24 Hr Clock)		Sample Type: C=Comp G=Grab		You agree in	
Page		Sample Date		Sample Type		You agree in	
9		5/8/14 1730		C S		You agree in	
Custody Disposal		5/8/14 1730		C S		You agree in	
Possible Hazard Identification (please check off each that may apply):		Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Waste (non-water) <input type="checkbox"/> Z-Other: _____		<input type="checkbox"/> Waste (non-water) <input type="checkbox"/> Z-Other: _____		<input type="checkbox"/> Waste (non-water) <input type="checkbox"/> Z-Other: _____	
Relinquished by: <u>M.C. [Signature]</u>		Date/Time: <u>5/8/14 11:50</u>		Company: <u>PCA</u>		Company: <u>PCA</u>	
Relinquished by: <u>M.C. [Signature]</u>		Date/Time: <u>5/23/14 0100</u>		Company: <u>PCA</u>		Company: <u>PCA</u>	
Relinquished by: <u>M.C. [Signature]</u>		Date/Time: <u>5/23/14 0100</u>		Company: <u>PCA</u>		Company: <u>PCA</u>	
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2-4 2.6 #1</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2-4 2.6 #1</u>	
Δ Yes Δ No				Δ Yes Δ No			



Login Sample Receipt Checklist

Client: Resource Control Associates, Inc.

Job Number: 480-60422-2

Login Number: 60422

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-60968-1

Client Project/Site: Bay Spring, Barrington

For:

Resource Control Associates, Inc.

474 Broadway

Pawtucket, Rhode Island 02860

Attn: Ms. Danielle Eastman-Getsinger



Authorized for release by:

6/10/2014 10:35:32 PM

Steve Hartmann, Service Center Manager

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	8
Surrogate Summary	17
QC Sample Results	18
QC Association Summary	24
Lab Chronicle	27
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Receipt Checklists	34

Definitions/Glossary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Job ID: 480-60968-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-60968-1

Comments

No additional comments.

Receipt

The samples were received on 6/3/2014 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

The following samples were preserved via freezing on 6/3/2014 at 04:00: S-301 (480-60968-1), S-302 (480-60968-2) . This is outside the 48 hour time frame required by the method.

GC/MS VOA

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 185630 recovered outside control limits for the following analytes: Carbon disulfide.

Method(s) 8260C: The method blank for batch 185630 contained Trichlorofluoromethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 186540 recovered above the upper control limit for Benzo(b)fluoranthene. The samples associated with this CCV were non-detects for the affected analytes or hits below the reporting limit; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-186540/3).

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 186540 recovered outside control limits for multiple analytes. The recoveries for these analytes were within quality control acceptance limits, therefore the data has been qualified and reported.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: S-302 (480-60968-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-301

Lab Sample ID: 480-60968-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.6	J H	5.3	0.39	ug/Kg	1	☼	8260C	Total/NA
1,1-Dichloroethane	2.7	J H	5.3	0.65	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	2.0	J H	5.3	0.68	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	26	H	5.3	1.2	ug/Kg	1	☼	8260C	Total/NA
Fluoranthene	5.4	J *	200	2.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	6.1	J *	200	4.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	4.5	J	200	1.3	ug/Kg	1	☼	8270D	Total/NA
Arsenic	0.76	J	1.9	0.38	mg/Kg	1		6010C	Total/NA
Barium	4.4		0.47	0.10	mg/Kg	1		6010C	Total/NA
Cadmium	0.049	J	0.19	0.028	mg/Kg	1		6010C	Total/NA
Chromium	16		0.47	0.19	mg/Kg	1		6010C	Total/NA
Lead	1.2		0.94	0.23	mg/Kg	1		6010C	Total/NA
Silver	0.44	J	0.56	0.19	mg/Kg	1		6010C	Total/NA
Hg	0.020		0.019	0.0076	mg/Kg	1		7471B	Total/NA

Client Sample ID: S-302

Lab Sample ID: 480-60968-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	31	H	5.9	0.43	ug/Kg	1	☼	8260C	Total/NA
1,1-Dichloroethane	17	H	5.9	0.72	ug/Kg	1	☼	8260C	Total/NA
1,1-Dichloroethene	1.9	J H	5.9	0.72	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	13	H	5.9	0.75	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	2.5	J H	5.9	0.40	ug/Kg	1	☼	8260C	Total/NA
Toluene	8.5	H	5.9	0.44	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	84	H	5.9	1.3	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	8.2	J H	12	0.99	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	45	J	1100	13	ug/Kg	5	☼	8270D	Total/NA
Anthracene	130	J *	1100	28	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	200	J *	1100	26	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	250	J *	1100	21	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	160	J	1100	12	ug/Kg	5	☼	8270D	Total/NA
Chrysene	290	J *	1100	11	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	590	J *	1100	16	ug/Kg	5	☼	8270D	Total/NA
Fluorene	66	J *	1100	25	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J	1100	30	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	55	J *	1100	18	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	570	J *	1100	23	ug/Kg	5	☼	8270D	Total/NA
Pyrene	590	J	1100	7.0	ug/Kg	5	☼	8270D	Total/NA
Arsenic	0.84	J	1.8	0.37	mg/Kg	1		6010C	Total/NA
Barium	4.9		0.46	0.10	mg/Kg	1		6010C	Total/NA
Cadmium	0.050	J	0.18	0.028	mg/Kg	1		6010C	Total/NA
Chromium	7.0		0.46	0.18	mg/Kg	1		6010C	Total/NA
Lead	0.99		0.92	0.22	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-303

Lab Sample ID: 480-60968-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	30	J *	180	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	20	J *	180	3.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	10	J	180	2.0	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-303 (Continued)

Lab Sample ID: 480-60968-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	20	J*	180	1.8	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	35	J	180	2.2	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	20	J*	180	2.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	28	J	180	5.1	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	3.6	J*	180	3.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	12	J*	180	3.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22	J	180	1.2	ug/Kg	1	☼	8270D	Total/NA
Arsenic	4.5		1.8	0.36	mg/Kg	1		6010C	Total/NA
Barium	37		0.45	0.099	mg/Kg	1		6010C	Total/NA
Cadmium	0.043	J	0.18	0.027	mg/Kg	1		6010C	Total/NA
Chromium	6.1		0.45	0.18	mg/Kg	1		6010C	Total/NA
Lead	8.7		0.90	0.22	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-304

Lab Sample ID: 480-60968-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	2.8	J*	170	2.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3.7	J*	170	3.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2.8	J	170	1.1	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.6	J	2.2	0.44	mg/Kg	1		6010C	Total/NA
Barium	9.5		0.55	0.12	mg/Kg	1		6010C	Total/NA
Cadmium	0.14	J	0.22	0.033	mg/Kg	1		6010C	Total/NA
Chromium	2.4		0.55	0.22	mg/Kg	1		6010C	Total/NA
Lead	1.8		1.1	0.26	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-305

Lab Sample ID: 480-60968-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	3.4	J*	170	3.4	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	3.4	J*	170	2.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	4.0	J	170	1.1	ug/Kg	1	☼	8270D	Total/NA
Arsenic	14		2.2	0.43	mg/Kg	1		6010C	Total/NA
Barium	7.5		0.54	0.12	mg/Kg	1		6010C	Total/NA
Cadmium	0.058	J	0.22	0.032	mg/Kg	1		6010C	Total/NA
Chromium	3.0		0.54	0.22	mg/Kg	1		6010C	Total/NA
Lead	2.3		1.1	0.26	mg/Kg	1		6010C	Total/NA
Silver	0.83		0.65	0.22	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-306

Lab Sample ID: 480-60968-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		1.8	0.37	mg/Kg	1		6010C	Total/NA
Barium	10		0.46	0.10	mg/Kg	1		6010C	Total/NA
Cadmium	0.032	J	0.18	0.028	mg/Kg	1		6010C	Total/NA
Chromium	1.3		0.46	0.18	mg/Kg	1		6010C	Total/NA
Lead	0.77	J	0.92	0.22	mg/Kg	1		6010C	Total/NA
Silver	2.0		0.55	0.18	mg/Kg	1		6010C	Total/NA

Client Sample ID: S-307

Lab Sample ID: 480-60968-7

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-307 (Continued)

Lab Sample ID: 480-60968-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	4.4	J *	180	3.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	7.8	J *	180	1.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	7.2	J *	180	2.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	7.2	J *	180	3.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	8.6	J	180	1.1	ug/Kg	1	☼	8270D	Total/NA
Arsenic	7.2		2.1	0.41	mg/Kg	1		6010C	Total/NA
Barium	8.6		0.52	0.11	mg/Kg	1		6010C	Total/NA
Cadmium	0.075	J	0.21	0.031	mg/Kg	1		6010C	Total/NA
Chromium	2.2		0.52	0.21	mg/Kg	1		6010C	Total/NA
Lead	1.5		1.0	0.25	mg/Kg	1		6010C	Total/NA
Silver	0.62		0.62	0.21	mg/Kg	1		6010C	Total/NA
Hg	0.011	J	0.019	0.0077	mg/Kg	1		7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-301

Lab Sample ID: 480-60968-1

Date Collected: 05/28/14 14:40

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 84.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.6	J H	5.3	0.39	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,1,2,2-Tetrachloroethane	ND	H	5.3	0.86	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	5.3	1.2	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,1,2-Trichloroethane	ND	H	5.3	0.69	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,1-Dichloroethane	2.7	J H	5.3	0.65	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,1-Dichloroethene	ND	H	5.3	0.65	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,2,4-Trichlorobenzene	ND	H	5.3	0.32	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,2-Dibromo-3-Chloropropane	ND	H	5.3	2.7	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,2-Dibromoethane	ND	H	5.3	0.68	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,2-Dichlorobenzene	ND	H	5.3	0.42	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,2-Dichloroethane	ND	H	5.3	0.27	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,2-Dichloropropane	ND	H	5.3	2.7	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,3-Dichlorobenzene	ND	H	5.3	0.27	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
1,4-Dichlorobenzene	ND	H	5.3	0.74	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
2-Butanone (MEK)	ND	H *	27	1.9	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
2-Hexanone	ND	H	27	2.7	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
4-Methyl-2-pentanone (MIBK)	ND	H	27	1.7	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Acetone	ND	H	27	4.5	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Benzene	ND	H	5.3	0.26	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Bromodichloromethane	ND	H	5.3	0.71	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Bromoform	ND	H	5.3	2.7	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Bromomethane	ND	H	5.3	0.48	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Carbon disulfide	ND	H *	5.3	2.7	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Carbon tetrachloride	ND	H	5.3	0.51	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Chlorobenzene	ND	H	5.3	0.70	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Chloroethane	ND	H	5.3	1.2	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Chloroform	ND	H	5.3	0.33	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Chloromethane	ND	H	5.3	0.32	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
cis-1,2-Dichloroethene	2.0	J H	5.3	0.68	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
cis-1,3-Dichloropropene	ND	H	5.3	0.77	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Cyclohexane	ND	H	5.3	0.74	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Dibromochloromethane	ND	H	5.3	0.68	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Dichlorodifluoromethane	ND	H	5.3	0.44	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Ethylbenzene	ND	H	5.3	0.37	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Isopropylbenzene	ND	H	5.3	0.80	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Methyl acetate	ND	H	5.3	3.2	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Methyl tert-butyl ether	ND	H	5.3	0.52	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Methylcyclohexane	ND	H	5.3	0.81	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Methylene Chloride	ND	H	5.3	2.4	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Styrene	ND	H	5.3	0.27	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Tetrachloroethene	ND	H	5.3	0.71	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Toluene	ND	H	5.3	0.40	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
trans-1,2-Dichloroethene	ND	H	5.3	0.55	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
trans-1,3-Dichloropropene	ND	H	5.3	2.3	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Trichloroethene	26	H	5.3	1.2	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Trichlorofluoromethane	ND	H	5.3	0.50	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Vinyl chloride	ND	H	5.3	0.65	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1
Xylenes, Total	ND	H	11	0.89	ug/Kg	☼	06/04/14 11:40	06/04/14 21:35	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-301

Lab Sample ID: 480-60968-1

Date Collected: 05/28/14 14:40

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 84.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	06/04/14 11:40	06/04/14 21:35	1
4-Bromofluorobenzene (Surr)	100		72 - 126	06/04/14 11:40	06/04/14 21:35	1
Toluene-d8 (Surr)	101		71 - 125	06/04/14 11:40	06/04/14 21:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	*	200	2.4	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Acenaphthene	ND		200	2.3	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Acenaphthylene	ND	*	200	1.6	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Anthracene	ND	*	200	5.1	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Benzo[a]anthracene	ND	*	200	3.4	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Benzo[a]pyrene	ND	*	200	4.8	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Benzo[b]fluoranthene	ND	*	200	3.8	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Benzo[g,h,i]perylene	ND		200	2.4	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Benzo[k]fluoranthene	ND		200	2.2	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Chrysene	ND	*	200	2.0	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Dibenz(a,h)anthracene	ND		200	2.3	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Fluoranthene	5.4	J *	200	2.9	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Fluorene	ND	*	200	4.6	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Indeno[1,2,3-cd]pyrene	ND		200	5.5	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Naphthalene	ND	*	200	3.3	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Phenanthrene	6.1	J *	200	4.2	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1
Pyrene	4.5	J	200	1.3	ug/Kg	☼	06/04/14 08:03	06/09/14 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		37 - 120	06/04/14 08:03	06/09/14 15:54	1
Nitrobenzene-d5 (Surr)	65		34 - 132	06/04/14 08:03	06/09/14 15:54	1
p-Terphenyl-d14 (Surr)	91		65 - 153	06/04/14 08:03	06/09/14 15:54	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.76	J	1.9	0.38	mg/Kg		06/03/14 12:00	06/05/14 21:43	1
Barium	4.4		0.47	0.10	mg/Kg		06/03/14 12:00	06/05/14 21:43	1
Cadmium	0.049	J	0.19	0.028	mg/Kg		06/03/14 12:00	06/05/14 21:43	1
Chromium	16		0.47	0.19	mg/Kg		06/03/14 12:00	06/05/14 21:43	1
Lead	1.2		0.94	0.23	mg/Kg		06/03/14 12:00	06/05/14 21:43	1
Selenium	ND		3.8	0.38	mg/Kg		06/03/14 12:00	06/05/14 21:43	1
Silver	0.44	J	0.56	0.19	mg/Kg		06/03/14 12:00	06/05/14 21:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.020		0.019	0.0076	mg/Kg		06/03/14 13:45	06/03/14 15:30	1

Client Sample ID: S-302

Lab Sample ID: 480-60968-2

Date Collected: 05/28/14 14:50

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 76.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	31	H	5.9	0.43	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,1,2,2-Tetrachloroethane	ND	H	5.9	0.95	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-302

Lab Sample ID: 480-60968-2

Date Collected: 05/28/14 14:50

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 76.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	5.9	1.3	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,1,2-Trichloroethane	ND	H	5.9	0.76	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,1-Dichloroethane	17	H	5.9	0.72	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,1-Dichloroethene	1.9	J H	5.9	0.72	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,2,4-Trichlorobenzene	ND	H	5.9	0.36	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,2-Dibromo-3-Chloropropane	ND	H	5.9	2.9	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,2-Dibromoethane	ND	H	5.9	0.75	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,2-Dichlorobenzene	ND	H	5.9	0.46	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,2-Dichloroethane	ND	H	5.9	0.29	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,2-Dichloropropane	ND	H	5.9	2.9	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,3-Dichlorobenzene	ND	H	5.9	0.30	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
1,4-Dichlorobenzene	ND	H	5.9	0.82	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
2-Butanone (MEK)	ND	H *	29	2.1	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
2-Hexanone	ND	H	29	2.9	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
4-Methyl-2-pentanone (MIBK)	ND	H	29	1.9	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Acetone	ND	H	29	4.9	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Benzene	ND	H	5.9	0.29	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Bromodichloromethane	ND	H	5.9	0.79	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Bromoform	ND	H	5.9	2.9	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Bromomethane	ND	H	5.9	0.53	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Carbon disulfide	ND	H *	5.9	2.9	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Carbon tetrachloride	ND	H	5.9	0.57	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Chlorobenzene	ND	H	5.9	0.77	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Chloroethane	ND	H	5.9	1.3	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Chloroform	ND	H	5.9	0.36	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Chloromethane	ND	H	5.9	0.35	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
cis-1,2-Dichloroethene	13	H	5.9	0.75	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
cis-1,3-Dichloropropene	ND	H	5.9	0.84	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Cyclohexane	ND	H	5.9	0.82	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Dibromochloromethane	ND	H	5.9	0.75	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Dichlorodifluoromethane	ND	H	5.9	0.48	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Ethylbenzene	2.5	J H	5.9	0.40	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Isopropylbenzene	ND	H	5.9	0.88	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Methyl acetate	ND	H	5.9	3.5	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Methyl tert-butyl ether	ND	H	5.9	0.58	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Methylcyclohexane	ND	H	5.9	0.89	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Methylene Chloride	ND	H	5.9	2.7	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Styrene	ND	H	5.9	0.29	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Tetrachloroethene	ND	H	5.9	0.79	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Toluene	8.5	H	5.9	0.44	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
trans-1,2-Dichloroethene	ND	H	5.9	0.61	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
trans-1,3-Dichloropropene	ND	H	5.9	2.6	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Trichloroethene	84	H	5.9	1.3	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Trichlorofluoromethane	ND	H	5.9	0.56	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Vinyl chloride	ND	H	5.9	0.72	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1
Xylenes, Total	8.2	J H	12	0.99	ug/Kg	☼	06/04/14 11:40	06/04/14 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	06/04/14 11:40	06/04/14 22:01	1
4-Bromofluorobenzene (Surr)	102		72 - 126	06/04/14 11:40	06/04/14 22:01	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-302

Lab Sample ID: 480-60968-2

Date Collected: 05/28/14 14:50

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 76.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	06/04/14 11:40	06/04/14 22:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	*	1100	13	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Acenaphthene	45	J	1100	13	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Acenaphthylene	ND	*	1100	8.8	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Anthracene	130	J*	1100	28	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Benzo[a]anthracene	ND	*	1100	19	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Benzo[a]pyrene	200	J*	1100	26	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Benzo[b]fluoranthene	250	J*	1100	21	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Benzo[g,h,i]perylene	ND		1100	13	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Benzo[k]fluoranthene	160	J	1100	12	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Chrysene	290	J*	1100	11	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Dibenz(a,h)anthracene	ND		1100	13	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Fluoranthene	590	J*	1100	16	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Fluorene	66	J*	1100	25	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Indeno[1,2,3-cd]pyrene	150	J	1100	30	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Naphthalene	55	J*	1100	18	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Phenanthrene	570	J*	1100	23	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5
Pyrene	590	J	1100	7.0	ug/Kg	☼	06/04/14 08:03	06/09/14 16:18	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		37 - 120	06/04/14 08:03	06/09/14 16:18	5
Nitrobenzene-d5 (Surr)	83		34 - 132	06/04/14 08:03	06/09/14 16:18	5
p-Terphenyl-d14 (Surr)	127		65 - 153	06/04/14 08:03	06/09/14 16:18	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.84	J	1.8	0.37	mg/Kg		06/03/14 12:00	06/05/14 21:45	1
Barium	4.9		0.46	0.10	mg/Kg		06/03/14 12:00	06/05/14 21:45	1
Cadmium	0.050	J	0.18	0.028	mg/Kg		06/03/14 12:00	06/05/14 21:45	1
Chromium	7.0		0.46	0.18	mg/Kg		06/03/14 12:00	06/05/14 21:45	1
Lead	0.99		0.92	0.22	mg/Kg		06/03/14 12:00	06/05/14 21:45	1
Selenium	ND		3.7	0.37	mg/Kg		06/03/14 12:00	06/05/14 21:45	1
Silver	ND		0.55	0.18	mg/Kg		06/03/14 12:00	06/05/14 21:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0082	mg/Kg		06/03/14 13:45	06/03/14 15:32	1

Client Sample ID: S-303

Lab Sample ID: 480-60968-3

Date Collected: 05/30/14 13:30

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	*	180	2.2	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Acenaphthylene	ND	*	180	1.5	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-303

Lab Sample ID: 480-60968-3

Date Collected: 05/30/14 13:30

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND	*	180	4.7	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Benzo[a]anthracene	ND	*	180	3.2	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Benzo[a]pyrene	30	J*	180	4.4	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Benzo[b]fluoranthene	20	J*	180	3.5	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Benzo[g,h,i]perylene	ND		180	2.2	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Benzo[k]fluoranthene	10	J	180	2.0	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Chrysene	20	J*	180	1.8	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Dibenz(a,h)anthracene	35	J	180	2.2	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Fluoranthene	20	J*	180	2.6	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Fluorene	ND	*	180	4.2	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Indeno[1,2,3-cd]pyrene	28	J	180	5.1	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Naphthalene	3.6	J*	180	3.0	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Phenanthrene	12	J*	180	3.8	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Pyrene	22	J	180	1.2	ug/Kg	☼	06/04/14 08:03	06/09/14 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		37 - 120				06/04/14 08:03	06/09/14 16:42	1
Nitrobenzene-d5 (Surr)	66		34 - 132				06/04/14 08:03	06/09/14 16:42	1
p-Terphenyl-d14 (Surr)	120		65 - 153				06/04/14 08:03	06/09/14 16:42	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		1.8	0.36	mg/Kg		06/03/14 12:00	06/05/14 21:48	1
Barium	37		0.45	0.099	mg/Kg		06/03/14 12:00	06/05/14 21:48	1
Cadmium	0.043	J	0.18	0.027	mg/Kg		06/03/14 12:00	06/05/14 21:48	1
Chromium	6.1		0.45	0.18	mg/Kg		06/03/14 12:00	06/05/14 21:48	1
Lead	8.7		0.90	0.22	mg/Kg		06/03/14 12:00	06/05/14 21:48	1
Selenium	ND		3.6	0.36	mg/Kg		06/03/14 12:00	06/05/14 21:48	1
Silver	ND		0.54	0.18	mg/Kg		06/03/14 12:00	06/05/14 21:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0083	mg/Kg		06/03/14 13:45	06/03/14 15:34	1

Client Sample ID: S-304

Lab Sample ID: 480-60968-4

Date Collected: 05/30/14 13:35

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 95.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	*	170	2.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Acenaphthene	ND		170	2.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Acenaphthylene	ND	*	170	1.4	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Anthracene	ND	*	170	4.4	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Benzo[a]anthracene	ND	*	170	3.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Benzo[a]pyrene	ND	*	170	4.2	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Benzo[b]fluoranthene	ND	*	170	3.4	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Benzo[g,h,i]perylene	ND		170	2.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Benzo[k]fluoranthene	ND		170	1.9	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Chrysene	ND	*	170	1.7	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-304

Lab Sample ID: 480-60968-4

Date Collected: 05/30/14 13:35

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 95.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Fluoranthene	2.8	J *	170	2.5	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Fluorene	ND	*	170	4.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Indeno[1,2,3-cd]pyrene	ND		170	4.8	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Naphthalene	ND	*	170	2.9	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Phenanthrene	3.7	J *	170	3.6	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Pyrene	2.8	J	170	1.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		37 - 120				06/04/14 08:03	06/09/14 17:05	1
Nitrobenzene-d5 (Surr)	70		34 - 132				06/04/14 08:03	06/09/14 17:05	1
p-Terphenyl-d14 (Surr)	115		65 - 153				06/04/14 08:03	06/09/14 17:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6	J	2.2	0.44	mg/Kg		06/03/14 12:00	06/09/14 14:35	1
Barium	9.5		0.55	0.12	mg/Kg		06/03/14 12:00	06/06/14 11:52	1
Cadmium	0.14	J	0.22	0.033	mg/Kg		06/03/14 12:00	06/06/14 11:52	1
Chromium	2.4		0.55	0.22	mg/Kg		06/03/14 12:00	06/06/14 11:52	1
Lead	1.8		1.1	0.26	mg/Kg		06/03/14 12:00	06/06/14 11:52	1
Selenium	ND		4.4	0.44	mg/Kg		06/03/14 12:00	06/06/14 11:52	1
Silver	ND		0.66	0.22	mg/Kg		06/03/14 12:00	06/06/14 11:52	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.021	0.0083	mg/Kg		06/03/14 13:45	06/03/14 15:39	1

Client Sample ID: S-305

Lab Sample ID: 480-60968-5

Date Collected: 05/30/14 13:45

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 96.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	*	170	2.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Acenaphthene	ND		170	2.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Acenaphthylene	ND	*	170	1.4	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Anthracene	ND	*	170	4.4	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Benzo[a]anthracene	ND	*	170	3.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Benzo[a]pyrene	ND	*	170	4.2	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Benzo[b]fluoranthene	3.4	J *	170	3.4	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Benzo[g,h,i]perylene	ND		170	2.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Benzo[k]fluoranthene	ND		170	1.9	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Chrysene	ND	*	170	1.7	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Fluoranthene	3.4	J *	170	2.5	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Fluorene	ND	*	170	4.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Indeno[1,2,3-cd]pyrene	ND		170	4.8	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Naphthalene	ND	*	170	2.9	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Phenanthrene	ND	*	170	3.6	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1
Pyrene	4.0	J	170	1.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:29	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-305

Lab Sample ID: 480-60968-5

Date Collected: 05/30/14 13:45

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 96.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		37 - 120	06/04/14 08:03	06/09/14 17:29	1
Nitrobenzene-d5 (Surr)	66		34 - 132	06/04/14 08:03	06/09/14 17:29	1
p-Terphenyl-d14 (Surr)	110		65 - 153	06/04/14 08:03	06/09/14 17:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		2.2	0.43	mg/Kg		06/03/14 12:00	06/09/14 14:38	1
Barium	7.5		0.54	0.12	mg/Kg		06/03/14 12:00	06/06/14 12:04	1
Cadmium	0.058	J	0.22	0.032	mg/Kg		06/03/14 12:00	06/06/14 12:04	1
Chromium	3.0		0.54	0.22	mg/Kg		06/03/14 12:00	06/06/14 12:04	1
Lead	2.3		1.1	0.26	mg/Kg		06/03/14 12:00	06/06/14 12:04	1
Selenium	ND		4.3	0.43	mg/Kg		06/03/14 12:00	06/06/14 12:04	1
Silver	0.83		0.65	0.22	mg/Kg		06/03/14 12:00	06/06/14 12:04	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0080	mg/Kg		06/03/14 13:45	06/03/14 15:41	1

Client Sample ID: S-306

Lab Sample ID: 480-60968-6

Date Collected: 05/30/14 13:50

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	*	180	2.2	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Acenaphthylene	ND	*	180	1.5	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Anthracene	ND	*	180	4.5	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Benzo[a]anthracene	ND	*	180	3.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Benzo[a]pyrene	ND	*	180	4.3	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Benzo[b]fluoranthene	ND	*	180	3.4	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Benzo[g,h,i]perylene	ND		180	2.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Benzo[k]fluoranthene	ND		180	2.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Chrysene	ND	*	180	1.8	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Fluoranthene	ND	*	180	2.6	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Fluorene	ND	*	180	4.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Indeno[1,2,3-cd]pyrene	ND		180	4.9	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Naphthalene	ND	*	180	3.0	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Phenanthrene	ND	*	180	3.7	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1
Pyrene	ND		180	1.1	ug/Kg	☼	06/04/14 08:03	06/09/14 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		37 - 120	06/04/14 08:03	06/09/14 17:53	1
Nitrobenzene-d5 (Surr)	66		34 - 132	06/04/14 08:03	06/09/14 17:53	1
p-Terphenyl-d14 (Surr)	110		65 - 153	06/04/14 08:03	06/09/14 17:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		1.8	0.37	mg/Kg		06/03/14 12:00	06/09/14 14:41	1
Barium	10		0.46	0.10	mg/Kg		06/03/14 12:00	06/06/14 12:07	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-306

Lab Sample ID: 480-60968-6

Date Collected: 05/30/14 13:50

Matrix: Solid

Date Received: 06/03/14 01:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.032	J	0.18	0.028	mg/Kg		06/03/14 12:00	06/06/14 12:07	1
Chromium	1.3		0.46	0.18	mg/Kg		06/03/14 12:00	06/06/14 12:07	1
Lead	0.77	J	0.92	0.22	mg/Kg		06/03/14 12:00	06/06/14 12:07	1
Selenium	ND		3.7	0.37	mg/Kg		06/03/14 12:00	06/06/14 12:07	1
Silver	2.0		0.55	0.18	mg/Kg		06/03/14 12:00	06/06/14 12:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.018	0.0075	mg/Kg		06/03/14 13:45	06/03/14 15:42	1

Client Sample ID: S-307

Lab Sample ID: 480-60968-7

Date Collected: 05/30/14 13:55

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 95.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	*	180	2.1	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Acenaphthene	ND		180	2.0	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Acenaphthylene	ND	*	180	1.4	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Anthracene	ND	*	180	4.5	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Benzo[a]anthracene	ND	*	180	3.0	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Benzo[a]pyrene	ND	*	180	4.2	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Benzo[b]fluoranthene	4.4	J*	180	3.4	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Benzo[g,h,i]perylene	ND		180	2.1	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Benzo[k]fluoranthene	ND		180	1.9	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Chrysene	7.8	J*	180	1.7	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Dibenz(a,h)anthracene	ND		180	2.0	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Fluoranthene	7.2	J*	180	2.5	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Fluorene	ND	*	180	4.0	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Indeno[1,2,3-cd]pyrene	ND		180	4.8	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Naphthalene	ND	*	180	2.9	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Phenanthrene	7.2	J*	180	3.7	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1
Pyrene	8.6	J	180	1.1	ug/Kg	☼	06/04/14 08:54	06/09/14 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		37 - 120	06/04/14 08:54	06/09/14 18:17	1
Nitrobenzene-d5 (Surr)	69		34 - 132	06/04/14 08:54	06/09/14 18:17	1
p-Terphenyl-d14 (Surr)	116		65 - 153	06/04/14 08:54	06/09/14 18:17	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.2		2.1	0.41	mg/Kg		06/03/14 12:00	06/09/14 14:44	1
Barium	8.6		0.52	0.11	mg/Kg		06/03/14 12:00	06/06/14 12:10	1
Cadmium	0.075	J	0.21	0.031	mg/Kg		06/03/14 12:00	06/06/14 12:10	1
Chromium	2.2		0.52	0.21	mg/Kg		06/03/14 12:00	06/06/14 12:10	1
Lead	1.5		1.0	0.25	mg/Kg		06/03/14 12:00	06/06/14 12:10	1
Selenium	ND		4.1	0.41	mg/Kg		06/03/14 12:00	06/06/14 12:10	1
Silver	0.62		0.62	0.21	mg/Kg		06/03/14 12:00	06/06/14 12:10	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-307

Lab Sample ID: 480-60968-7

Date Collected: 05/30/14 13:55

Matrix: Solid

Date Received: 06/03/14 01:00

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.011	J	0.019	0.0077	mg/Kg		06/05/14 12:45	06/06/14 17:42	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (64-126)	BFB (72-126)	TOL (71-125)
480-60968-1	S-301	110	100	101
480-60968-2	S-302	108	102	101
LCS 480-185630/5	Lab Control Sample	113	101	100
LCSD 480-185630/6	Lab Control Sample Dup	111	101	100
MB 480-185630/31	Method Blank	106	98	101

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (37-120)	NBZ (34-132)	TPH (65-153)
480-60968-1	S-301	76	65	91
480-60968-2	S-302	98	83	127
480-60968-3	S-303	80	66	120
480-60968-4	S-304	82	70	115
480-60968-5	S-305	77	66	110
480-60968-6	S-306	75	66	110
480-60968-7	S-307	81	69	116
LCS 480-185557/2-A	Lab Control Sample	85	72	93
LCSD 480-185557/3-A	Lab Control Sample Dup	66	52	78
MB 480-185557/1-A	Method Blank	78	68	94

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPH = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-185630/31

Matrix: Solid

Analysis Batch: 185630

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			06/04/14 15:50	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg			06/04/14 15:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg			06/04/14 15:50	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg			06/04/14 15:50	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg			06/04/14 15:50	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg			06/04/14 15:50	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg			06/04/14 15:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg			06/04/14 15:50	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg			06/04/14 15:50	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg			06/04/14 15:50	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg			06/04/14 15:50	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			06/04/14 15:50	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg			06/04/14 15:50	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg			06/04/14 15:50	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg			06/04/14 15:50	1
2-Hexanone	ND		25	2.5	ug/Kg			06/04/14 15:50	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg			06/04/14 15:50	1
Acetone	ND		25	4.2	ug/Kg			06/04/14 15:50	1
Benzene	ND		5.0	0.25	ug/Kg			06/04/14 15:50	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg			06/04/14 15:50	1
Bromoform	ND		5.0	2.5	ug/Kg			06/04/14 15:50	1
Bromomethane	ND		5.0	0.45	ug/Kg			06/04/14 15:50	1
Carbon disulfide	ND		5.0	2.5	ug/Kg			06/04/14 15:50	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg			06/04/14 15:50	1
Chlorobenzene	ND		5.0	0.66	ug/Kg			06/04/14 15:50	1
Chloroethane	ND		5.0	1.1	ug/Kg			06/04/14 15:50	1
Chloroform	ND		5.0	0.31	ug/Kg			06/04/14 15:50	1
Chloromethane	ND		5.0	0.30	ug/Kg			06/04/14 15:50	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg			06/04/14 15:50	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg			06/04/14 15:50	1
Cyclohexane	ND		5.0	0.70	ug/Kg			06/04/14 15:50	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg			06/04/14 15:50	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg			06/04/14 15:50	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			06/04/14 15:50	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg			06/04/14 15:50	1
Methyl acetate	ND		5.0	3.0	ug/Kg			06/04/14 15:50	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg			06/04/14 15:50	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg			06/04/14 15:50	1
Methylene Chloride	ND		5.0	2.3	ug/Kg			06/04/14 15:50	1
Styrene	ND		5.0	0.25	ug/Kg			06/04/14 15:50	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			06/04/14 15:50	1
Toluene	ND		5.0	0.38	ug/Kg			06/04/14 15:50	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg			06/04/14 15:50	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg			06/04/14 15:50	1
Trichloroethene	ND		5.0	1.1	ug/Kg			06/04/14 15:50	1
Trichlorofluoromethane	1.37	J	5.0	0.47	ug/Kg			06/04/14 15:50	1
Vinyl chloride	ND		5.0	0.61	ug/Kg			06/04/14 15:50	1
Xylenes, Total	ND		10	0.84	ug/Kg			06/04/14 15:50	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-185630/31

Matrix: Solid

Analysis Batch: 185630

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		64 - 126		06/04/14 15:50	1
4-Bromofluorobenzene (Surr)	98		72 - 126		06/04/14 15:50	1
Toluene-d8 (Surr)	101		71 - 125		06/04/14 15:50	1

Lab Sample ID: LCS 480-185630/5

Matrix: Solid

Analysis Batch: 185630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,1-Dichloroethane	50.0	49.4		ug/Kg		99	73 - 126	
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	59 - 125	
1,2-Dichlorobenzene	50.0	49.5		ug/Kg		99	75 - 120	
1,2-Dichloroethane	50.0	50.1		ug/Kg		100	77 - 122	
Benzene	50.0	48.6		ug/Kg		97	79 - 127	
Chlorobenzene	50.0	48.3		ug/Kg		97	76 - 124	
cis-1,2-Dichloroethene	50.0	49.2		ug/Kg		98	81 - 117	
Ethylbenzene	50.0	48.7		ug/Kg		97	80 - 120	
Methyl tert-butyl ether	50.0	51.3		ug/Kg		103	63 - 125	
Tetrachloroethene	50.0	50.8		ug/Kg		102	74 - 122	
Toluene	50.0	48.5		ug/Kg		97	74 - 128	
trans-1,2-Dichloroethene	50.0	47.8		ug/Kg		96	78 - 126	
Trichloroethene	50.0	49.0		ug/Kg		98	77 - 129	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	113		64 - 126
4-Bromofluorobenzene (Surr)	101		72 - 126
Toluene-d8 (Surr)	100		71 - 125

Lab Sample ID: LCSD 480-185630/6

Matrix: Solid

Analysis Batch: 185630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit
1,1-Dichloroethane	50.0	49.2		ug/Kg		98	73 - 126	0	20	
1,1-Dichloroethene	50.0	46.9		ug/Kg		94	59 - 125	2	20	
1,2-Dichlorobenzene	50.0	48.7		ug/Kg		97	75 - 120	1	20	
1,2-Dichloroethane	50.0	49.3		ug/Kg		99	77 - 122	2	20	
Benzene	50.0	48.0		ug/Kg		96	79 - 127	1	20	
Chlorobenzene	50.0	47.8		ug/Kg		96	76 - 124	1	20	
cis-1,2-Dichloroethene	50.0	49.0		ug/Kg		98	81 - 117	0	20	
Ethylbenzene	50.0	47.5		ug/Kg		95	80 - 120	2	20	
Methyl tert-butyl ether	50.0	51.6		ug/Kg		103	63 - 125	1	20	
Tetrachloroethene	50.0	50.0		ug/Kg		100	74 - 122	2	20	
Toluene	50.0	47.8		ug/Kg		96	74 - 128	2	20	
trans-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	78 - 126	1	20	
Trichloroethene	50.0	48.4		ug/Kg		97	77 - 129	1	20	

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-185630/6

Matrix: Solid

Analysis Batch: 185630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		64 - 126
4-Bromofluorobenzene (Surr)	101		72 - 126
Toluene-d8 (Surr)	100		71 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-185557/1-A

Matrix: Solid

Analysis Batch: 186540

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 185557

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylnaphthalene	ND		170	2.0	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Acenaphthene	ND		170	1.9	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Acenaphthylene	ND		170	1.3	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Anthracene	ND		170	4.2	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Benzo[a]anthracene	ND		170	2.8	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Benzo[a]pyrene	ND		170	4.0	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Benzo[b]fluoranthene	ND		170	3.2	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Benzo[g,h,i]perylene	ND		170	2.0	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Benzo[k]fluoranthene	ND		170	1.8	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Chrysene	ND		170	1.6	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Dibenz(a,h)anthracene	ND		170	1.9	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Fluoranthene	ND		170	2.4	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Fluorene	ND		170	3.8	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Indeno[1,2,3-cd]pyrene	ND		170	4.5	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Naphthalene	ND		170	2.7	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Phenanthrene	ND		170	3.4	ug/Kg		06/04/14 08:03	06/09/14 14:19	1
Pyrene	ND		170	1.1	ug/Kg		06/04/14 08:03	06/09/14 14:19	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	78		37 - 120	06/04/14 08:03	06/09/14 14:19	1
Nitrobenzene-d5 (Surr)	68		34 - 132	06/04/14 08:03	06/09/14 14:19	1
p-Terphenyl-d14 (Surr)	94		65 - 153	06/04/14 08:03	06/09/14 14:19	1

Lab Sample ID: LCS 480-185557/2-A

Matrix: Solid

Analysis Batch: 186540

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 185557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1630	1490		ug/Kg		91	58 - 121
Anthracene	1630	1500		ug/Kg		92	62 - 129
Benzo[a]anthracene	1630	1480		ug/Kg		90	65 - 133
Benzo[a]pyrene	1630	1440		ug/Kg		88	64 - 127
Benzo[b]fluoranthene	1630	1610		ug/Kg		99	64 - 135
Benzo[g,h,i]perylene	1630	1370		ug/Kg		84	50 - 152
Benzo[k]fluoranthene	1630	1440		ug/Kg		88	58 - 138

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-185557/2-A

Matrix: Solid

Analysis Batch: 186540

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 185557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1630	1490		ug/Kg		92	64 - 131
Dibenz(a,h)anthracene	1630	1280		ug/Kg		78	54 - 148
Fluoranthene	1630	1550		ug/Kg		95	62 - 131
Fluorene	1630	1410		ug/Kg		86	63 - 126
Indeno[1,2,3-cd]pyrene	1630	1490		ug/Kg		91	56 - 149
Naphthalene	1630	1320		ug/Kg		81	46 - 120
Phenanthrene	1630	1500		ug/Kg		92	60 - 130
Pyrene	1630	1520		ug/Kg		93	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	85		37 - 120
Nitrobenzene-d5 (Surr)	72		34 - 132
p-Terphenyl-d14 (Surr)	93		65 - 153

Lab Sample ID: LCSD 480-185557/3-A

Matrix: Solid

Analysis Batch: 186540

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 185557

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	1650	1130		ug/Kg		69	53 - 120	21	35
Acenaphthylene	1650	1200	*	ug/Kg		73	58 - 121	22	18
Anthracene	1650	1250	*	ug/Kg		76	62 - 129	19	15
Benzo[a]anthracene	1650	1230	*	ug/Kg		75	65 - 133	18	15
Benzo[a]pyrene	1650	1210	*	ug/Kg		73	64 - 127	17	15
Benzo[b]fluoranthene	1650	1200	*	ug/Kg		73	64 - 135	29	15
Benzo[g,h,i]perylene	1650	1180		ug/Kg		71	50 - 152	15	15
Benzo[k]fluoranthene	1650	1360		ug/Kg		83	58 - 138	6	22
Chrysene	1650	1270	*	ug/Kg		77	64 - 131	17	15
Dibenz(a,h)anthracene	1650	1130		ug/Kg		69	54 - 148	12	15
Fluoranthene	1650	1320	*	ug/Kg		80	62 - 131	16	15
Fluorene	1650	1160	*	ug/Kg		70	63 - 126	20	15
Indeno[1,2,3-cd]pyrene	1650	1300		ug/Kg		79	56 - 149	14	15
Naphthalene	1650	971	*	ug/Kg		59	46 - 120	31	29
Phenanthrene	1650	1260	*	ug/Kg		76	60 - 130	18	15
Pyrene	1650	1270		ug/Kg		77	51 - 133	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	66		37 - 120
Nitrobenzene-d5 (Surr)	52		34 - 132
p-Terphenyl-d14 (Surr)	78		65 - 153

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-185394/1-A
Matrix: Solid
Analysis Batch: 186058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.9	0.39	mg/Kg		06/03/14 12:00	06/05/14 20:34	1
Barium	ND		0.48	0.11	mg/Kg		06/03/14 12:00	06/05/14 20:34	1
Cadmium	ND		0.19	0.029	mg/Kg		06/03/14 12:00	06/05/14 20:34	1
Chromium	ND		0.48	0.19	mg/Kg		06/03/14 12:00	06/05/14 20:34	1
Lead	ND		0.97	0.23	mg/Kg		06/03/14 12:00	06/05/14 20:34	1
Selenium	ND		3.9	0.39	mg/Kg		06/03/14 12:00	06/05/14 20:34	1
Silver	ND		0.58	0.19	mg/Kg		06/03/14 12:00	06/05/14 20:34	1

Lab Sample ID: LCDSRM 480-185394/3-A
Matrix: Solid
Analysis Batch: 186058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 185394

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	122	114		mg/Kg		93.5	70.0 - 145.1	0	20
Barium	167	155		mg/Kg		92.9	73.1 - 126.9	1	20
Cadmium	88.1	82.7		mg/Kg		93.9	73.3 - 127.3	1	20
Chromium	102	89.4		mg/Kg		87.6	69.4 - 130.4	0	20
Lead	94.6	93.2		mg/Kg		98.5	70.5 - 129.1	4	20
Selenium	157	150		mg/Kg		95.4	67.5 - 131.8	2	20
Silver	34.2	33.3		mg/Kg		97.3	65.5 - 134.2	4	20

Lab Sample ID: LCSSRM 480-185394/2-A
Matrix: Solid
Analysis Batch: 186058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185394

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	122	115		mg/Kg		93.8	70.0 - 145.1	0	20
Barium	167	154		mg/Kg		91.9	73.1 - 126.9	1	20
Cadmium	88.1	82.0		mg/Kg		93.1	73.3 - 127.3	1	20
Chromium	102	89.3		mg/Kg		87.4	69.4 - 130.4	0	20
Lead	94.6	97.1		mg/Kg		102.7	70.5 - 129.1	4	20
Selenium	157	153		mg/Kg		97.2	67.5 - 131.8	2	20
Silver	34.2	31.9		mg/Kg		93.2	65.5 - 134.2	4	20

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-185403/1-A
Matrix: Solid
Analysis Batch: 185551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0083	mg/Kg		06/03/14 13:45	06/03/14 14:55	1

Lab Sample ID: LCDSRM 480-185403/3-A
Matrix: Solid
Analysis Batch: 185551

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 185403

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	3.98	4.60		mg/Kg		115.6	51.0 - 149.0	8	20

Lab Sample ID: LCSSRM 480-185403/2-A
Matrix: Solid
Analysis Batch: 185551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185403

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	3.98	4.24		mg/Kg		106.6	51.0 - 149.0		

Lab Sample ID: MB 480-185902/1-A
Matrix: Solid
Analysis Batch: 186398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.020	0.0081	mg/Kg		06/05/14 12:45	06/06/14 16:53	1

Lab Sample ID: LCSSRM 480-185902/2-A
Matrix: Solid
Analysis Batch: 186398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185902

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	3.98	4.63		mg/Kg		116.4	51.0 - 149.0		

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

GC/MS VOA

Analysis Batch: 185630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-1	S-301	Total/NA	Solid	8260C	185637
480-60968-2	S-302	Total/NA	Solid	8260C	185637
LCS 480-185630/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 480-185630/6	Lab Control Sample Dup	Total/NA	Solid	8260C	
MB 480-185630/31	Method Blank	Total/NA	Solid	8260C	

Prep Batch: 185637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-1	S-301	Total/NA	Solid	5035A	
480-60968-2	S-302	Total/NA	Solid	5035A	

GC/MS Semi VOA

Prep Batch: 185557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-1	S-301	Total/NA	Solid	3550C	
480-60968-2	S-302	Total/NA	Solid	3550C	
480-60968-3	S-303	Total/NA	Solid	3550C	
480-60968-4	S-304	Total/NA	Solid	3550C	
480-60968-5	S-305	Total/NA	Solid	3550C	
480-60968-6	S-306	Total/NA	Solid	3550C	
480-60968-7	S-307	Total/NA	Solid	3550C	
LCS 480-185557/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-185557/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 480-185557/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 186540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-1	S-301	Total/NA	Solid	8270D	185557
480-60968-2	S-302	Total/NA	Solid	8270D	185557
480-60968-3	S-303	Total/NA	Solid	8270D	185557
480-60968-4	S-304	Total/NA	Solid	8270D	185557
480-60968-5	S-305	Total/NA	Solid	8270D	185557
480-60968-6	S-306	Total/NA	Solid	8270D	185557
480-60968-7	S-307	Total/NA	Solid	8270D	185557
LCS 480-185557/2-A	Lab Control Sample	Total/NA	Solid	8270D	185557
LCSD 480-185557/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	185557
MB 480-185557/1-A	Method Blank	Total/NA	Solid	8270D	185557

Metals

Prep Batch: 185394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-1	S-301	Total/NA	Solid	3050B	
480-60968-2	S-302	Total/NA	Solid	3050B	
480-60968-3	S-303	Total/NA	Solid	3050B	
480-60968-4	S-304	Total/NA	Solid	3050B	
480-60968-5	S-305	Total/NA	Solid	3050B	
480-60968-6	S-306	Total/NA	Solid	3050B	
480-60968-7	S-307	Total/NA	Solid	3050B	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Metals (Continued)

Prep Batch: 185394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCDSRM 480-185394/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 480-185394/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-185394/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 185403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-1	S-301	Total/NA	Solid	7471B	
480-60968-2	S-302	Total/NA	Solid	7471B	
480-60968-3	S-303	Total/NA	Solid	7471B	
480-60968-4	S-304	Total/NA	Solid	7471B	
480-60968-5	S-305	Total/NA	Solid	7471B	
480-60968-6	S-306	Total/NA	Solid	7471B	
LCDSRM 480-185403/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-185403/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-185403/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 185551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-1	S-301	Total/NA	Solid	7471B	185403
480-60968-2	S-302	Total/NA	Solid	7471B	185403
480-60968-3	S-303	Total/NA	Solid	7471B	185403
480-60968-4	S-304	Total/NA	Solid	7471B	185403
480-60968-5	S-305	Total/NA	Solid	7471B	185403
480-60968-6	S-306	Total/NA	Solid	7471B	185403
LCDSRM 480-185403/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	185403
LCSSRM 480-185403/2-A	Lab Control Sample	Total/NA	Solid	7471B	185403
MB 480-185403/1-A	Method Blank	Total/NA	Solid	7471B	185403

Prep Batch: 185902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-7	S-307	Total/NA	Solid	7471B	
LCSSRM 480-185902/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-185902/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 186058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-1	S-301	Total/NA	Solid	6010C	185394
480-60968-2	S-302	Total/NA	Solid	6010C	185394
480-60968-3	S-303	Total/NA	Solid	6010C	185394
LCDSRM 480-185394/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	185394
LCSSRM 480-185394/2-A	Lab Control Sample	Total/NA	Solid	6010C	185394
MB 480-185394/1-A	Method Blank	Total/NA	Solid	6010C	185394

Analysis Batch: 186398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-7	S-307	Total/NA	Solid	7471B	185902
LCSSRM 480-185902/2-A	Lab Control Sample	Total/NA	Solid	7471B	185902
MB 480-185902/1-A	Method Blank	Total/NA	Solid	7471B	185902

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Metals (Continued)

Analysis Batch: 186429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-4	S-304	Total/NA	Solid	6010C	185394
480-60968-5	S-305	Total/NA	Solid	6010C	185394
480-60968-6	S-306	Total/NA	Solid	6010C	185394
480-60968-7	S-307	Total/NA	Solid	6010C	185394

Analysis Batch: 186678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-4	S-304	Total/NA	Solid	6010C	185394
480-60968-5	S-305	Total/NA	Solid	6010C	185394
480-60968-6	S-306	Total/NA	Solid	6010C	185394
480-60968-7	S-307	Total/NA	Solid	6010C	185394

General Chemistry

Analysis Batch: 185436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60968-1	S-301	Total/NA	Solid	Moisture	
480-60968-2	S-302	Total/NA	Solid	Moisture	
480-60968-3	S-303	Total/NA	Solid	Moisture	
480-60968-4	S-304	Total/NA	Solid	Moisture	
480-60968-5	S-305	Total/NA	Solid	Moisture	
480-60968-6	S-306	Total/NA	Solid	Moisture	
480-60968-7	S-307	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-301

Lab Sample ID: 480-60968-1

Date Collected: 05/28/14 14:40

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			185637	06/04/14 11:40	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	185630	06/04/14 21:35	CDC	TAL BUF
Total/NA	Prep	3550C			185557	06/04/14 08:03	TRG	TAL BUF
Total/NA	Analysis	8270D		1	186540	06/09/14 15:54	DMR	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186058	06/05/14 21:43	MTM2	TAL BUF
Total/NA	Prep	7471B			185403	06/03/14 13:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	185551	06/03/14 15:30	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	185436	06/03/14 13:44	CW	TAL BUF

Client Sample ID: S-302

Lab Sample ID: 480-60968-2

Date Collected: 05/28/14 14:50

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			185637	06/04/14 11:40	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	185630	06/04/14 22:01	CDC	TAL BUF
Total/NA	Prep	3550C			185557	06/04/14 08:03	TRG	TAL BUF
Total/NA	Analysis	8270D		5	186540	06/09/14 16:18	DMR	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186058	06/05/14 21:45	MTM2	TAL BUF
Total/NA	Prep	7471B			185403	06/03/14 13:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	185551	06/03/14 15:32	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	185436	06/03/14 13:44	CW	TAL BUF

Client Sample ID: S-303

Lab Sample ID: 480-60968-3

Date Collected: 05/30/14 13:30

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			185557	06/04/14 08:03	TRG	TAL BUF
Total/NA	Analysis	8270D		1	186540	06/09/14 16:42	DMR	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186058	06/05/14 21:48	MTM2	TAL BUF
Total/NA	Prep	7471B			185403	06/03/14 13:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	185551	06/03/14 15:34	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	185436	06/03/14 13:44	CW	TAL BUF

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-304

Lab Sample ID: 480-60968-4

Date Collected: 05/30/14 13:35

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			185557	06/04/14 08:03	TRG	TAL BUF
Total/NA	Analysis	8270D		1	186540	06/09/14 17:05	DMR	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186429	06/06/14 11:52	MTM2	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186678	06/09/14 14:35	MTM2	TAL BUF
Total/NA	Prep	7471B			185403	06/03/14 13:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	185551	06/03/14 15:39	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	185436	06/03/14 13:44	CW	TAL BUF

Client Sample ID: S-305

Lab Sample ID: 480-60968-5

Date Collected: 05/30/14 13:45

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			185557	06/04/14 08:03	TRG	TAL BUF
Total/NA	Analysis	8270D		1	186540	06/09/14 17:29	DMR	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186429	06/06/14 12:04	MTM2	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186678	06/09/14 14:38	MTM2	TAL BUF
Total/NA	Prep	7471B			185403	06/03/14 13:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	185551	06/03/14 15:41	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	185436	06/03/14 13:44	CW	TAL BUF

Client Sample ID: S-306

Lab Sample ID: 480-60968-6

Date Collected: 05/30/14 13:50

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			185557	06/04/14 08:03	TRG	TAL BUF
Total/NA	Analysis	8270D		1	186540	06/09/14 17:53	DMR	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186429	06/06/14 12:07	MTM2	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186678	06/09/14 14:41	MTM2	TAL BUF
Total/NA	Prep	7471B			185403	06/03/14 13:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	185551	06/03/14 15:42	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	185436	06/03/14 13:44	CW	TAL BUF

Lab Chronicle

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Client Sample ID: S-307

Lab Sample ID: 480-60968-7

Date Collected: 05/30/14 13:55

Matrix: Solid

Date Received: 06/03/14 01:00

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			185557	06/04/14 08:54	TRG	TAL BUF
Total/NA	Analysis	8270D		1	186540	06/09/14 18:17	DMR	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186429	06/06/14 12:10	MTM2	TAL BUF
Total/NA	Prep	3050B			185394	06/03/14 12:00	SS1	TAL BUF
Total/NA	Analysis	6010C		1	186678	06/09/14 14:44	MTM2	TAL BUF
Total/NA	Prep	7471B			185902	06/05/14 12:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	186398	06/06/14 17:42	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	185436	06/03/14 13:44	CW	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Certification Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Massachusetts	State Program	1	M-NY044	06-30-14 *
Rhode Island	State Program	1	LAO00328	12-30-14

* Certification renewal pending - certification considered valid.

Method Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60968-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60968-1	S-301	Solid	05/28/14 14:40	06/03/14 01:00
480-60968-2	S-302	Solid	05/28/14 14:50	06/03/14 01:00
480-60968-3	S-303	Solid	05/30/14 13:30	06/03/14 01:00
480-60968-4	S-304	Solid	05/30/14 13:35	06/03/14 01:00
480-60968-5	S-305	Solid	05/30/14 13:45	06/03/14 01:00
480-60968-6	S-306	Solid	05/30/14 13:50	06/03/14 01:00
480-60968-7	S-307	Solid	05/30/14 13:55	06/03/14 01:00



Temperature on Re...
Drinking Water? >

Chain of Custody Record

TAL-4124 (1007)

Client: **Reserve Controls** Date: **5/30/14** Chain of Custody Number: **261981**

Address: **474 Broadway** Telephone Number (Area Code)/Fax Number: **401-728-6860 Ext. 2-16**

City: **Pawtucket** State: **RI** Zip Code: **02860** Site Contact: **Danielle Betswie** Lab Contact: **401-728-6860 Ext. 2-16** Page: **1** of **1**

Project Name and Location (State): **Bassonin Barrington** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH
S-301	5/28/14	1440		X	X	X	X					X VOCs	
S-302	5/28/14	1450		X	X	X	X					X PAHs	
S-303	5/30/14	1330			X	X	X					X VOCs	
S-304	5/30/14	1335		X	X	X	X					X	
S-305	5/30/14	1345		X	X	X	X					X	
S-306	5/30/14	1350		X	X	X	X					X	
S-307	5/30/14	1355		X	X	X	X					X	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Sample Disposal
 Disposal By Lab Other: **5/6/2014**

Turn Around Time Required
 24 Hours 48 Hours 14 Days 21 Days Other: _____

1. Relinquished By: **Jerry Oak** Date: **6/2/14** Time: **10:55**
 2. Relinquished By: **Jerry Oak** Date: **6-2-14** Time: **6:00**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: **3.6 #1**

Login Sample Receipt Checklist

Client: Resource Control Associates, Inc.

Job Number: 480-60968-1

Login Number: 60968

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-60969-1

Client Project/Site: Bay Spring, Barrington

For:

Resource Control Associates, Inc.

474 Broadway

Pawtucket, Rhode Island 02860

Attn: Ms. Danielle Eastman-Getsinger



Authorized for release by:

6/18/2014 2:16:18 PM

Steve Hartmann, Service Center Manager

(413)572-4000

steve.hartmann@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	7
Surrogate Summary	11
QC Sample Results	13
QC Association Summary	23
Lab Chronicle	26
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	31

Definitions/Glossary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Job ID: 480-60969-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-60969-1

Receipt

The sample was received on 6/3/2014 1:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 185319 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: Frac Tank (480-60969-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following analytes, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 2-Butanone, Benzene, Carbon Tetrachloride, Chloroethane, Tetrachloroethene, and Vinyl chloride were detected in the sample Frac Tank (480-60969-1) at a concentration above the linear range of the initial calibration curve. Due to the high dilution dictated by other target compounds, these analytes were diluted out in the re-analysis of the sample. Therefore, the value being reported is from the original analysis and is qualified with an E flag.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Surrogate recovery for the following samples was outside control limits: Frac Tank (480-60969-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 188158 recovered above the upper control limit for Atrazine and Indeno(1,2,3-cd)pyrene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-188158/6), (CCVIS 480-188158/3).

Method(s) 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 185534 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 185534 recovered outside control limits for 4-chloroaniline

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: Frac Tank (480-60969-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The following samples were diluted due to the nature of the sample matrix: Frac Tank (480-60969-1). As such, surrogate recoveries are not representative, and elevated reporting limits (RLs) are provided.

Method(s) 8082A: The laboratory control sample (LCS) for preparation batch 185762 recovered outside control limits for the surrogate, Decachlorobiphenyl indication a low bias. The individual spike recoveries met control criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The continuing calibration blank (CCB) for analytical batch 480-185788 contained total barium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Job ID: 480-60969-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

than 10X the value found in the CCB; therefore, re-analysis of samples Frac Tank (480-60969-1) was not performed.

Method(s) 245.1, 7470A: The following samples were diluted to bring the concentration of the target analyte, total mercury, within the calibration range: (480-61129-2 MS), (480-61129-2 MSD), SP-K PURGE (480-61129-2). Elevated reporting limits (RLs) are provided.

Method(s) 245.1, 7470A: The following samples were diluted to bring the concentration of the target analyte, total mercury, within the calibration range: (480-61129-2 SD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) 9040C, SM 4500 H+ B: The following sample(s) was received outside of holding time: Frac Tank (480-60969-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 185534 and 185799

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Client Sample ID: Frac Tank

Lab Sample ID: 480-60969-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	140	E	1.0	0.23	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	7.9		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2900	E	1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dibromo-3-Chloropropane	1.1		1.0	0.39	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	110	E	1.0	0.21	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	820	E	10	1.3	ug/L	1		8260C	Total/NA
2-Hexanone	29		5.0	1.2	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	130		5.0	2.1	ug/L	1		8260C	Total/NA
Acetone	290		10	3.0	ug/L	1		8260C	Total/NA
Benzene	120	E	1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	1.6		1.0	0.19	ug/L	1		8260C	Total/NA
Carbon tetrachloride	1400	E	1.0	0.27	ug/L	1		8260C	Total/NA
Chloroethane	170	E	1.0	0.32	ug/L	1		8260C	Total/NA
Chloroform	16		1.0	0.34	ug/L	1		8260C	Total/NA
Isopropylbenzene	40		1.0	0.79	ug/L	1		8260C	Total/NA
Methylene Chloride	80		1.0	0.44	ug/L	1		8260C	Total/NA
Tetrachloroethene	110	E	1.0	0.36	ug/L	1		8260C	Total/NA
Vinyl chloride	160	E	1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	43000		1000	820	ug/L	1000		8260C	Total/NA
1,1-Dichloroethane - DL	25000		1000	380	ug/L	1000		8260C	Total/NA
cis-1,2-Dichloroethene - DL	830	J	1000	810	ug/L	1000		8260C	Total/NA
Ethylbenzene - DL	7800		1000	740	ug/L	1000		8260C	Total/NA
Toluene - DL	13000		1000	510	ug/L	1000		8260C	Total/NA
Trichloroethene - DL	77000		1000	460	ug/L	1000		8260C	Total/NA
Xylenes, Total - DL	39000		2000	660	ug/L	1000		8260C	Total/NA
2,4-Dimethylphenol	61	J	100	10	ug/L	20		8270D	Total/NA
2-Methylphenol	37	J	100	8.0	ug/L	20		8270D	Total/NA
Acetophenone	85	J	100	11	ug/L	20		8270D	Total/NA
Benzaldehyde	21	J	100	5.4	ug/L	20		8270D	Total/NA
Di-n-butyl phthalate	9.8	J	100	6.2	ug/L	20		8270D	Total/NA
Fluoranthene	15	J	100	8.0	ug/L	20		8270D	Total/NA
Isophorone	20	J	100	8.7	ug/L	20		8270D	Total/NA
Nitrobenzene	110		100	5.8	ug/L	20		8270D	Total/NA
Phenanthrene	20	J	100	8.9	ug/L	20		8270D	Total/NA
Phenol	65	J	100	7.8	ug/L	20		8270D	Total/NA
Pyrene	9.6	J	100	6.8	ug/L	20		8270D	Total/NA
Diesel Range Organics [C10-C28]	8.0	B	0.50	0.31	mg/L	1		8015D	Total/NA
Arsenic	0.018		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.72	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0076		0.0020	0.00050	mg/L	1		6010C	Total/NA
Chromium	0.16		0.0040	0.0010	mg/L	1		6010C	Total/NA
Lead	1.7		0.010	0.0030	mg/L	1		6010C	Total/NA
Silver	0.0035	J	0.0060	0.0017	mg/L	1		6010C	Total/NA
Mercury	0.0047		0.00020	0.00012	mg/L	1		7470A	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	5.13	H	0.100	0.100	SU	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Client Sample ID: Frac Tank

Lab Sample ID: 480-60969-1

Date Collected: 05/30/14 07:30

Matrix: Water

Date Received: 06/03/14 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/14 13:27	1
1,1,2-Trichloroethane	140	E	1.0	0.23	ug/L			06/03/14 13:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	7.9		1.0	0.31	ug/L			06/03/14 13:27	1
1,1-Dichloroethene	2900	E	1.0	0.29	ug/L			06/03/14 13:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/14 13:27	1
1,2-Dibromo-3-Chloropropane	1.1		1.0	0.39	ug/L			06/03/14 13:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/14 13:27	1
1,2-Dichloroethane	110	E	1.0	0.21	ug/L			06/03/14 13:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/03/14 13:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/14 13:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/14 13:27	1
2-Butanone (MEK)	820	E	10	1.3	ug/L			06/03/14 13:27	1
2-Hexanone	29		5.0	1.2	ug/L			06/03/14 13:27	1
4-Methyl-2-pentanone (MIBK)	130		5.0	2.1	ug/L			06/03/14 13:27	1
Acetone	290		10	3.0	ug/L			06/03/14 13:27	1
Benzene	120	E	1.0	0.41	ug/L			06/03/14 13:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/03/14 13:27	1
Bromoform	ND		1.0	0.26	ug/L			06/03/14 13:27	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/14 13:27	1
Carbon disulfide	1.6		1.0	0.19	ug/L			06/03/14 13:27	1
Carbon tetrachloride	1400	E	1.0	0.27	ug/L			06/03/14 13:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/14 13:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/03/14 13:27	1
Chloroethane	170	E	1.0	0.32	ug/L			06/03/14 13:27	1
Chloroform	16		1.0	0.34	ug/L			06/03/14 13:27	1
Chloromethane	ND		1.0	0.35	ug/L			06/03/14 13:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/03/14 13:27	1
Cyclohexane	ND		1.0	0.18	ug/L			06/03/14 13:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/14 13:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/14 13:27	1
Isopropylbenzene	40		1.0	0.79	ug/L			06/03/14 13:27	1
Methyl acetate	ND		2.5	0.50	ug/L			06/03/14 13:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/14 13:27	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/03/14 13:27	1
Methylene Chloride	80		1.0	0.44	ug/L			06/03/14 13:27	1
Styrene	ND		1.0	0.73	ug/L			06/03/14 13:27	1
Tetrachloroethene	110	E	1.0	0.36	ug/L			06/03/14 13:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/14 13:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/03/14 13:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/14 13:27	1
Vinyl chloride	160	E	1.0	0.90	ug/L			06/03/14 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	79		71 - 126					06/03/14 13:27	1
1,2-Dichloroethane-d4 (Surr)	84		66 - 137					06/03/14 13:27	1
4-Bromofluorobenzene (Surr)	81		73 - 120					06/03/14 13:27	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Client Sample ID: Frac Tank

Lab Sample ID: 480-60969-1

Date Collected: 05/30/14 07:30

Matrix: Water

Date Received: 06/03/14 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	43000		1000	820	ug/L			06/05/14 05:04	1000
1,1-Dichloroethane	25000		1000	380	ug/L			06/05/14 05:04	1000
cis-1,2-Dichloroethene	830	J	1000	810	ug/L			06/05/14 05:04	1000
Ethylbenzene	7800		1000	740	ug/L			06/05/14 05:04	1000
Toluene	13000		1000	510	ug/L			06/05/14 05:04	1000
Trichloroethene	77000		1000	460	ug/L			06/05/14 05:04	1000
Xylenes, Total	39000		2000	660	ug/L			06/05/14 05:04	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		71 - 126		06/05/14 05:04	1000
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		06/05/14 05:04	1000
4-Bromofluorobenzene (Surr)	106		73 - 120		06/05/14 05:04	1000

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		100	13	ug/L		06/04/14 05:45	06/17/14 17:31	20
bis (2-chloroisopropyl) ether	ND		100	10	ug/L		06/04/14 05:45	06/17/14 17:31	20
2,4,5-Trichlorophenol	ND		100	9.7	ug/L		06/04/14 05:45	06/17/14 17:31	20
2,4,6-Trichlorophenol	ND		100	12	ug/L		06/04/14 05:45	06/17/14 17:31	20
2,4-Dichlorophenol	ND		100	10	ug/L		06/04/14 05:45	06/17/14 17:31	20
2,4-Dimethylphenol	61	J	100	10	ug/L		06/04/14 05:45	06/17/14 17:31	20
2,4-Dinitrophenol	ND		200	45	ug/L		06/04/14 05:45	06/17/14 17:31	20
2,4-Dinitrotoluene	ND		100	9.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
2,6-Dinitrotoluene	ND		100	8.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
2-Chloronaphthalene	ND		100	9.3	ug/L		06/04/14 05:45	06/17/14 17:31	20
2-Chlorophenol	ND		100	11	ug/L		06/04/14 05:45	06/17/14 17:31	20
2-Methylphenol	37	J	100	8.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
2-Methylnaphthalene	ND		100	12	ug/L		06/04/14 05:45	06/17/14 17:31	20
2-Nitroaniline	ND		200	8.5	ug/L		06/04/14 05:45	06/17/14 17:31	20
2-Nitrophenol	ND		100	9.7	ug/L		06/04/14 05:45	06/17/14 17:31	20
3,3'-Dichlorobenzidine	ND		100	8.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
3-Nitroaniline	ND	*	200	9.7	ug/L		06/04/14 05:45	06/17/14 17:31	20
4,6-Dinitro-2-methylphenol	ND		200	44	ug/L		06/04/14 05:45	06/17/14 17:31	20
4-Bromophenyl phenyl ether	ND		100	9.1	ug/L		06/04/14 05:45	06/17/14 17:31	20
4-Chloro-3-methylphenol	ND		100	9.1	ug/L		06/04/14 05:45	06/17/14 17:31	20
4-Chloroaniline	ND	*	100	12	ug/L		06/04/14 05:45	06/17/14 17:31	20
4-Chlorophenyl phenyl ether	ND		100	7.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
4-Methylphenol	ND	*	200	7.2	ug/L		06/04/14 05:45	06/17/14 17:31	20
4-Nitroaniline	ND		200	5.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
4-Nitrophenol	ND		200	31	ug/L		06/04/14 05:45	06/17/14 17:31	20
Acenaphthene	ND		100	8.2	ug/L		06/04/14 05:45	06/17/14 17:31	20
Acenaphthylene	ND		100	7.6	ug/L		06/04/14 05:45	06/17/14 17:31	20
Acetophenone	85	J	100	11	ug/L		06/04/14 05:45	06/17/14 17:31	20
Anthracene	ND		100	5.6	ug/L		06/04/14 05:45	06/17/14 17:31	20
Atrazine	ND		100	9.3	ug/L		06/04/14 05:45	06/17/14 17:31	20
Benzaldehyde	21	J	100	5.4	ug/L		06/04/14 05:45	06/17/14 17:31	20
Benzo[a]anthracene	ND		100	7.2	ug/L		06/04/14 05:45	06/17/14 17:31	20
Benzo[a]pyrene	ND		100	9.5	ug/L		06/04/14 05:45	06/17/14 17:31	20
Benzo[b]fluoranthene	ND		100	6.8	ug/L		06/04/14 05:45	06/17/14 17:31	20
Benzo[g,h,i]perylene	ND		100	7.0	ug/L		06/04/14 05:45	06/17/14 17:31	20

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Client Sample ID: Frac Tank

Lab Sample ID: 480-60969-1

Date Collected: 05/30/14 07:30

Matrix: Water

Date Received: 06/03/14 01:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		100	15	ug/L		06/04/14 05:45	06/17/14 17:31	20
Bis(2-chloroethoxy)methane	ND		100	7.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
Bis(2-chloroethyl)ether	ND		100	8.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
Bis(2-ethylhexyl) phthalate	ND		100	36	ug/L		06/04/14 05:45	06/17/14 17:31	20
Butyl benzyl phthalate	ND		100	8.5	ug/L		06/04/14 05:45	06/17/14 17:31	20
Caprolactam	ND		100	44	ug/L		06/04/14 05:45	06/17/14 17:31	20
Carbazole	ND		100	6.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
Chrysene	ND		100	6.6	ug/L		06/04/14 05:45	06/17/14 17:31	20
Dibenz(a,h)anthracene	ND		100	8.5	ug/L		06/04/14 05:45	06/17/14 17:31	20
Di-n-butyl phthalate	9.8	J	100	6.2	ug/L		06/04/14 05:45	06/17/14 17:31	20
Di-n-octyl phthalate	ND		100	9.5	ug/L		06/04/14 05:45	06/17/14 17:31	20
Dibenzofuran	ND		200	10	ug/L		06/04/14 05:45	06/17/14 17:31	20
Diethyl phthalate	ND		100	4.4	ug/L		06/04/14 05:45	06/17/14 17:31	20
Dimethyl phthalate	ND		100	7.2	ug/L		06/04/14 05:45	06/17/14 17:31	20
Fluoranthene	15	J	100	8.0	ug/L		06/04/14 05:45	06/17/14 17:31	20
Fluorene	ND		100	7.2	ug/L		06/04/14 05:45	06/17/14 17:31	20
Hexachlorobenzene	ND	*	100	10	ug/L		06/04/14 05:45	06/17/14 17:31	20
Hexachlorobutadiene	ND		100	14	ug/L		06/04/14 05:45	06/17/14 17:31	20
Hexachlorocyclopentadiene	ND		100	12	ug/L		06/04/14 05:45	06/17/14 17:31	20
Hexachloroethane	ND		100	12	ug/L		06/04/14 05:45	06/17/14 17:31	20
Indeno[1,2,3-cd]pyrene	ND		100	9.5	ug/L		06/04/14 05:45	06/17/14 17:31	20
Isophorone	20	J	100	8.7	ug/L		06/04/14 05:45	06/17/14 17:31	20
N-Nitrosodi-n-propylamine	ND		100	11	ug/L		06/04/14 05:45	06/17/14 17:31	20
N-Nitrosodiphenylamine	ND		100	10	ug/L		06/04/14 05:45	06/17/14 17:31	20
Naphthalene	ND		100	15	ug/L		06/04/14 05:45	06/17/14 17:31	20
Nitrobenzene	110		100	5.8	ug/L		06/04/14 05:45	06/17/14 17:31	20
Pentachlorophenol	ND		200	44	ug/L		06/04/14 05:45	06/17/14 17:31	20
Phenanthrene	20	J	100	8.9	ug/L		06/04/14 05:45	06/17/14 17:31	20
Phenol	65	J	100	7.8	ug/L		06/04/14 05:45	06/17/14 17:31	20
Pyrene	9.6	J	100	6.8	ug/L		06/04/14 05:45	06/17/14 17:31	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	82		46 - 120	06/04/14 05:45	06/17/14 17:31	20
Phenol-d5 (Surr)	53		16 - 120	06/04/14 05:45	06/17/14 17:31	20
p-Terphenyl-d14 (Surr)	61	X	67 - 150	06/04/14 05:45	06/17/14 17:31	20
2,4,6-Tribromophenol (Surr)	97		52 - 132	06/04/14 05:45	06/17/14 17:31	20
2-Fluorobiphenyl	88		48 - 120	06/04/14 05:45	06/17/14 17:31	20
2-Fluorophenol (Surr)	73		20 - 120	06/04/14 05:45	06/17/14 17:31	20

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8.0	B	0.50	0.31	mg/L		06/05/14 07:59	06/05/14 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		29 - 136	06/05/14 07:59	06/05/14 16:49	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		490	170	ug/L		06/05/14 07:22	06/07/14 07:25	1000
PCB-1221	ND		490	170	ug/L		06/05/14 07:22	06/07/14 07:25	1000

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Client Sample ID: Frac Tank

Lab Sample ID: 480-60969-1

Date Collected: 05/30/14 07:30

Matrix: Water

Date Received: 06/03/14 01:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		490	170	ug/L		06/05/14 07:22	06/07/14 07:25	1000
PCB-1242	ND		490	170	ug/L		06/05/14 07:22	06/07/14 07:25	1000
PCB-1248	ND		490	170	ug/L		06/05/14 07:22	06/07/14 07:25	1000
PCB-1254	ND		490	240	ug/L		06/05/14 07:22	06/07/14 07:25	1000
PCB-1260	ND		490	240	ug/L		06/05/14 07:22	06/07/14 07:25	1000
PCB-1262	ND		490	240	ug/L		06/05/14 07:22	06/07/14 07:25	1000
PCB-1268	ND		490	240	ug/L		06/05/14 07:22	06/07/14 07:25	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	23 - 127	06/05/14 07:22	06/07/14 07:25	1000
DCB Decachlorobiphenyl	0	X	19 - 126	06/05/14 07:22	06/07/14 07:25	1000

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018		0.015	0.0056	mg/L		06/03/14 09:05	06/04/14 14:04	1
Barium	0.72	^	0.0020	0.00070	mg/L		06/03/14 09:05	06/04/14 14:04	1
Cadmium	0.0076		0.0020	0.00050	mg/L		06/03/14 09:05	06/04/14 14:04	1
Chromium	0.16		0.0040	0.0010	mg/L		06/03/14 09:05	06/04/14 14:04	1
Lead	1.7		0.010	0.0030	mg/L		06/03/14 09:05	06/04/14 14:04	1
Selenium	ND		0.025	0.0087	mg/L		06/03/14 09:05	06/04/14 14:04	1
Silver	0.0035	J	0.0060	0.0017	mg/L		06/03/14 09:05	06/04/14 14:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0047		0.00020	0.00012	mg/L		06/05/14 09:35	06/05/14 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	0.0030	mg/L		06/05/14 00:35	06/05/14 12:03	1
Sulfide, Reactive	ND		10	0.57	mg/L		06/05/14 00:35	06/05/14 12:20	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			06/04/14 08:21	1
pH	5.13	H	0.100	0.100	SU			06/03/14 19:30	1

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (71-126)	12DCE (66-137)	BFB (73-120)
480-60969-1	Frac Tank	79	84	81
480-60969-1 - DL	Frac Tank	98	107	106
LCS 480-185319/6	Lab Control Sample	105	113	107
LCS 480-185707/6	Lab Control Sample	101	103	105
MB 480-185319/8	Method Blank	106	110	98
MB 480-185707/8	Method Blank	98	107	104

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (46-120)	PHL (16-120)	TPH (67-150)	TBP (52-132)	FBP (48-120)	2FP (20-120)
480-60969-1	Frac Tank	82	53	61 X	97	88	73
LCS 480-185534/2-A	Lab Control Sample	82	59	106	119	94	78
LCSD 480-185534/3-A	Lab Control Sample Dup	78	55	101	116	92	73
MB 480-185534/1-A	Method Blank	72	40	109	100	75	57

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTPH (29-136)
480-60969-1	Frac Tank	93
LCS 480-185799/2-A	Lab Control Sample	55
LCSD 480-185799/3-A	Lab Control Sample Dup	43
MB 480-185799/1-A	Method Blank	97

Surrogate Legend

OTPH = o-Terphenyl

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (23-127)	DCB1 (19-126)
480-60969-1	Frac Tank	0 X	0 X
LCS 480-185762/2-A	Lab Control Sample	87	18 X
MB 480-185762/1-A	Method Blank	78	39

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-185319/8

Matrix: Water

Analysis Batch: 185319

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/03/14 11:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/14 11:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/03/14 11:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/03/14 11:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/03/14 11:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/03/14 11:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/14 11:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/03/14 11:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/14 11:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/03/14 11:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/03/14 11:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/14 11:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/14 11:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/03/14 11:15	1
2-Hexanone	ND		5.0	1.2	ug/L			06/03/14 11:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/03/14 11:15	1
Acetone	ND		10	3.0	ug/L			06/03/14 11:15	1
Benzene	ND		1.0	0.41	ug/L			06/03/14 11:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/03/14 11:15	1
Bromoform	ND		1.0	0.26	ug/L			06/03/14 11:15	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/14 11:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/03/14 11:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/03/14 11:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/14 11:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/03/14 11:15	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/14 11:15	1
Chloroform	ND		1.0	0.34	ug/L			06/03/14 11:15	1
Chloromethane	ND		1.0	0.35	ug/L			06/03/14 11:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/03/14 11:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/03/14 11:15	1
Cyclohexane	ND		1.0	0.18	ug/L			06/03/14 11:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/14 11:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/14 11:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/14 11:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/03/14 11:15	1
Methyl acetate	ND		2.5	0.50	ug/L			06/03/14 11:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/14 11:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/03/14 11:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/03/14 11:15	1
Styrene	ND		1.0	0.73	ug/L			06/03/14 11:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/03/14 11:15	1
Toluene	ND		1.0	0.51	ug/L			06/03/14 11:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/14 11:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/03/14 11:15	1
Trichloroethene	ND		1.0	0.46	ug/L			06/03/14 11:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/14 11:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/03/14 11:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/03/14 11:15	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-185319/8

Matrix: Water

Analysis Batch: 185319

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	106		71 - 126		06/03/14 11:15	1
1,2-Dichloroethane-d4 (Surr)	110		66 - 137		06/03/14 11:15	1
4-Bromofluorobenzene (Surr)	98		73 - 120		06/03/14 11:15	1

Lab Sample ID: LCS 480-185319/6

Matrix: Water

Analysis Batch: 185319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	27.2		ug/L		109	58 - 121
1,2-Dichlorobenzene	25.0	27.0		ug/L		108	80 - 124
1,2-Dichloroethane	25.0	27.2		ug/L		109	75 - 127
Benzene	25.0	26.3		ug/L		105	71 - 124
Chlorobenzene	25.0	25.6		ug/L		102	72 - 120
cis-1,2-Dichloroethene	25.0	27.1		ug/L		108	74 - 124
Ethylbenzene	25.0	26.1		ug/L		104	77 - 123
Methyl tert-butyl ether	25.0	27.7		ug/L		111	64 - 127
Tetrachloroethene	25.0	23.4		ug/L		94	74 - 122
Toluene	25.0	25.2		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	27.0		ug/L		108	73 - 127
Trichloroethene	25.0	26.6		ug/L		106	74 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	105		71 - 126
1,2-Dichloroethane-d4 (Surr)	113		66 - 137
4-Bromofluorobenzene (Surr)	107		73 - 120

Lab Sample ID: MB 480-185707/8

Matrix: Water

Analysis Batch: 185707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/04/14 22:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/04/14 22:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/04/14 22:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/04/14 22:33	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/04/14 22:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/04/14 22:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/04/14 22:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/04/14 22:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/04/14 22:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/04/14 22:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/04/14 22:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/04/14 22:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/04/14 22:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/04/14 22:33	1
2-Hexanone	ND		5.0	1.2	ug/L			06/04/14 22:33	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-185707/8

Matrix: Water

Analysis Batch: 185707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/04/14 22:33	1
Acetone	ND		10	3.0	ug/L			06/04/14 22:33	1
Benzene	ND		1.0	0.41	ug/L			06/04/14 22:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/04/14 22:33	1
Bromoform	ND		1.0	0.26	ug/L			06/04/14 22:33	1
Bromomethane	ND		1.0	0.69	ug/L			06/04/14 22:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/04/14 22:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/04/14 22:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/04/14 22:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/04/14 22:33	1
Chloroethane	ND		1.0	0.32	ug/L			06/04/14 22:33	1
Chloroform	ND		1.0	0.34	ug/L			06/04/14 22:33	1
Chloromethane	ND		1.0	0.35	ug/L			06/04/14 22:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/04/14 22:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/04/14 22:33	1
Cyclohexane	ND		1.0	0.18	ug/L			06/04/14 22:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/04/14 22:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/14 22:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/04/14 22:33	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/04/14 22:33	1
Methyl acetate	ND		2.5	0.50	ug/L			06/04/14 22:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/04/14 22:33	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/04/14 22:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/04/14 22:33	1
Styrene	ND		1.0	0.73	ug/L			06/04/14 22:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/04/14 22:33	1
Toluene	ND		1.0	0.51	ug/L			06/04/14 22:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/04/14 22:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/04/14 22:33	1
Trichloroethene	ND		1.0	0.46	ug/L			06/04/14 22:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/04/14 22:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/04/14 22:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/14 22:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	98		71 - 126		06/04/14 22:33	1
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		06/04/14 22:33	1
4-Bromofluorobenzene (Surr)	104		73 - 120		06/04/14 22:33	1

Lab Sample ID: LCS 480-185707/6

Matrix: Water

Analysis Batch: 185707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethane	25.0	24.8		ug/L		99	71 - 129
1,1-Dichloroethene	25.0	25.8		ug/L		103	58 - 121
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.7		ug/L		99	75 - 127

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-185707/6

Matrix: Water

Analysis Batch: 185707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.7		ug/L		95	71 - 124
Chlorobenzene	25.0	23.5		ug/L		94	72 - 120
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123
Methyl tert-butyl ether	25.0	22.7		ug/L		91	64 - 127
Tetrachloroethene	25.0	25.4		ug/L		102	74 - 122
Toluene	25.0	23.3		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	73 - 127
Trichloroethene	25.0	24.6		ug/L		98	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	105		73 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-185534/1-A

Matrix: Water

Analysis Batch: 188158

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 185534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/04/14 05:45	06/17/14 15:06	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/04/14 05:45	06/17/14 15:06	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/04/14 05:45	06/17/14 15:06	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/04/14 05:45	06/17/14 15:06	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/04/14 05:45	06/17/14 15:06	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/04/14 05:45	06/17/14 15:06	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/04/14 05:45	06/17/14 15:06	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/04/14 05:45	06/17/14 15:06	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/04/14 05:45	06/17/14 15:06	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/04/14 05:45	06/17/14 15:06	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/04/14 05:45	06/17/14 15:06	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/04/14 05:45	06/17/14 15:06	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/04/14 05:45	06/17/14 15:06	1
2-Nitroaniline	ND		10	0.42	ug/L		06/04/14 05:45	06/17/14 15:06	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/04/14 05:45	06/17/14 15:06	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/04/14 05:45	06/17/14 15:06	1
3-Nitroaniline	ND		10	0.48	ug/L		06/04/14 05:45	06/17/14 15:06	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/04/14 05:45	06/17/14 15:06	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/04/14 05:45	06/17/14 15:06	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/04/14 05:45	06/17/14 15:06	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/04/14 05:45	06/17/14 15:06	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/04/14 05:45	06/17/14 15:06	1
4-Methylphenol	ND		10	0.36	ug/L		06/04/14 05:45	06/17/14 15:06	1
4-Nitroaniline	ND		10	0.25	ug/L		06/04/14 05:45	06/17/14 15:06	1
4-Nitrophenol	ND		10	1.5	ug/L		06/04/14 05:45	06/17/14 15:06	1
Acenaphthene	ND		5.0	0.41	ug/L		06/04/14 05:45	06/17/14 15:06	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-185534/1-A

Matrix: Water

Analysis Batch: 188158

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 185534

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthylene	ND		5.0	0.38	ug/L		06/04/14 05:45	06/17/14 15:06	1
Acetophenone	ND		5.0	0.54	ug/L		06/04/14 05:45	06/17/14 15:06	1
Anthracene	ND		5.0	0.28	ug/L		06/04/14 05:45	06/17/14 15:06	1
Atrazine	ND		5.0	0.46	ug/L		06/04/14 05:45	06/17/14 15:06	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/04/14 05:45	06/17/14 15:06	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/04/14 05:45	06/17/14 15:06	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/04/14 05:45	06/17/14 15:06	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/04/14 05:45	06/17/14 15:06	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/04/14 05:45	06/17/14 15:06	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/04/14 05:45	06/17/14 15:06	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/04/14 05:45	06/17/14 15:06	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/04/14 05:45	06/17/14 15:06	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.8	ug/L		06/04/14 05:45	06/17/14 15:06	1
Butyl benzyl phthalate	ND		5.0	0.42	ug/L		06/04/14 05:45	06/17/14 15:06	1
Caprolactam	ND		5.0	2.2	ug/L		06/04/14 05:45	06/17/14 15:06	1
Carbazole	ND		5.0	0.30	ug/L		06/04/14 05:45	06/17/14 15:06	1
Chrysene	ND		5.0	0.33	ug/L		06/04/14 05:45	06/17/14 15:06	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/04/14 05:45	06/17/14 15:06	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		06/04/14 05:45	06/17/14 15:06	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/04/14 05:45	06/17/14 15:06	1
Dibenzofuran	ND		10	0.51	ug/L		06/04/14 05:45	06/17/14 15:06	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/04/14 05:45	06/17/14 15:06	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/04/14 05:45	06/17/14 15:06	1
Fluoranthene	ND		5.0	0.40	ug/L		06/04/14 05:45	06/17/14 15:06	1
Fluorene	ND		5.0	0.36	ug/L		06/04/14 05:45	06/17/14 15:06	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/04/14 05:45	06/17/14 15:06	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/04/14 05:45	06/17/14 15:06	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/04/14 05:45	06/17/14 15:06	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/04/14 05:45	06/17/14 15:06	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/04/14 05:45	06/17/14 15:06	1
Isophorone	ND		5.0	0.43	ug/L		06/04/14 05:45	06/17/14 15:06	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/04/14 05:45	06/17/14 15:06	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/04/14 05:45	06/17/14 15:06	1
Naphthalene	ND		5.0	0.76	ug/L		06/04/14 05:45	06/17/14 15:06	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/04/14 05:45	06/17/14 15:06	1
Pentachlorophenol	ND		10	2.2	ug/L		06/04/14 05:45	06/17/14 15:06	1
Phenanthrene	ND		5.0	0.44	ug/L		06/04/14 05:45	06/17/14 15:06	1
Phenol	ND		5.0	0.39	ug/L		06/04/14 05:45	06/17/14 15:06	1
Pyrene	ND		5.0	0.34	ug/L		06/04/14 05:45	06/17/14 15:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	72		46 - 120	06/04/14 05:45	06/17/14 15:06	1
Phenol-d5 (Surr)	40		16 - 120	06/04/14 05:45	06/17/14 15:06	1
p-Terphenyl-d14 (Surr)	109		67 - 150	06/04/14 05:45	06/17/14 15:06	1
2,4,6-Tribromophenol (Surr)	100		52 - 132	06/04/14 05:45	06/17/14 15:06	1
2-Fluorobiphenyl	75		48 - 120	06/04/14 05:45	06/17/14 15:06	1
2-Fluorophenol (Surr)	57		20 - 120	06/04/14 05:45	06/17/14 15:06	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-185534/2-A

Matrix: Water

Analysis Batch: 188158

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 185534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	32.0	35.3		ug/L		110	65 - 154
2-Chlorophenol	32.0	32.4		ug/L		101	48 - 120
4-Chloro-3-methylphenol	32.0	33.6		ug/L		105	64 - 120
4-Nitrophenol	64.0	48.8		ug/L		76	16 - 120
Acenaphthene	32.0	32.5		ug/L		102	60 - 120
Atrazine	64.0	81.6	E	ug/L		127	56 - 179
Bis(2-ethylhexyl) phthalate	32.0	35.7		ug/L		111	53 - 158
Fluorene	32.0	33.6		ug/L		105	55 - 143
Hexachloroethane	32.0	25.1		ug/L		78	14 - 101
N-Nitrosodi-n-propylamine	32.0	30.4		ug/L		95	56 - 120
Pentachlorophenol	64.0	67.1		ug/L		105	39 - 136
Phenol	32.0	20.8		ug/L		65	17 - 120
Pyrene	32.0	32.1		ug/L		100	58 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	82		46 - 120
Phenol-d5 (Surr)	59		16 - 120
p-Terphenyl-d14 (Surr)	106		67 - 150
2,4,6-Tribromophenol (Surr)	119		52 - 132
2-Fluorobiphenyl	94		48 - 120
2-Fluorophenol (Surr)	78		20 - 120

Lab Sample ID: LCSD 480-185534/3-A

Matrix: Water

Analysis Batch: 188158

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 185534

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrotoluene	32.0	33.2		ug/L		104	65 - 154	6	20
2-Chlorophenol	32.0	29.6		ug/L		93	48 - 120	9	25
4-Chloro-3-methylphenol	32.0	31.7		ug/L		99	64 - 120	6	27
4-Nitrophenol	64.0	44.7		ug/L		70	16 - 120	9	48
Acenaphthene	32.0	31.9		ug/L		100	60 - 120	2	24
Atrazine	64.0	77.4	E	ug/L		121	56 - 179	5	20
Bis(2-ethylhexyl) phthalate	32.0	32.9		ug/L		103	53 - 158	8	15
Fluorene	32.0	31.9		ug/L		100	55 - 143	5	15
Hexachloroethane	32.0	23.9		ug/L		75	14 - 101	5	46
N-Nitrosodi-n-propylamine	32.0	28.3		ug/L		88	56 - 120	7	31
Pentachlorophenol	64.0	63.9		ug/L		100	39 - 136	5	37
Phenol	32.0	18.8		ug/L		59	17 - 120	10	34
Pyrene	32.0	30.0		ug/L		94	58 - 136	7	19

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	78		46 - 120
Phenol-d5 (Surr)	55		16 - 120
p-Terphenyl-d14 (Surr)	101		67 - 150
2,4,6-Tribromophenol (Surr)	116		52 - 132
2-Fluorobiphenyl	92		48 - 120

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-185534/3-A
Matrix: Water
Analysis Batch: 188158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 185534

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	73		20 - 120

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-185799/1-A
Matrix: Water
Analysis Batch: 185760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185799

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	0.350	J	0.50	0.31	mg/L		06/05/14 07:59	06/05/14 15:06	1
Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac			
%Recovery	Qualifier								
o-Terphenyl	97		29 - 136	06/05/14 07:59	06/05/14 15:06	1			

Lab Sample ID: LCS 480-185799/2-A
Matrix: Water
Analysis Batch: 185760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185799

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Diesel Range Organics [C10-C28]	6.00	3.22		mg/L		54	42 - 120
Surrogate	LCS		Limits				
%Recovery	Qualifier						
o-Terphenyl	55		29 - 136				

Lab Sample ID: LCSD 480-185799/3-A
Matrix: Water
Analysis Batch: 185760

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 185799

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Diesel Range Organics [C10-C28]	6.00	3.43		mg/L		57	42 - 120	6	30
Surrogate	LCSD		Limits						
%Recovery	Qualifier								
o-Terphenyl	43		29 - 136						

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-185762/1-A
Matrix: Water
Analysis Batch: 186166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185762

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.50	0.18	ug/L		06/05/14 07:22	06/07/14 05:50	1
PCB-1221	ND		0.50	0.18	ug/L		06/05/14 07:22	06/07/14 05:50	1
PCB-1232	ND		0.50	0.18	ug/L		06/05/14 07:22	06/07/14 05:50	1
PCB-1242	ND		0.50	0.18	ug/L		06/05/14 07:22	06/07/14 05:50	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-185762/1-A
Matrix: Water
Analysis Batch: 186166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		0.50	0.18	ug/L		06/05/14 07:22	06/07/14 05:50	1
PCB-1254	ND		0.50	0.25	ug/L		06/05/14 07:22	06/07/14 05:50	1
PCB-1260	ND		0.50	0.25	ug/L		06/05/14 07:22	06/07/14 05:50	1
PCB-1262	ND		0.50	0.25	ug/L		06/05/14 07:22	06/07/14 05:50	1
PCB-1268	ND		0.50	0.25	ug/L		06/05/14 07:22	06/07/14 05:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		23 - 127	06/05/14 07:22	06/07/14 05:50	1
DCB Decachlorobiphenyl	39		19 - 126	06/05/14 07:22	06/07/14 05:50	1

Lab Sample ID: LCS 480-185762/2-A
Matrix: Water
Analysis Batch: 186166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.64		ug/L		91	51 - 137
PCB-1260	4.00	2.75		ug/L		69	45 - 139

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	87		23 - 127
DCB Decachlorobiphenyl	18 X		19 - 126

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-185333/1-A
Matrix: Water
Analysis Batch: 185788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/03/14 09:05	06/04/14 12:54	1
Barium	ND		0.0020	0.00070	mg/L		06/03/14 09:05	06/04/14 12:54	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/14 09:05	06/04/14 12:54	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/14 09:05	06/04/14 12:54	1
Lead	ND		0.010	0.0030	mg/L		06/03/14 09:05	06/04/14 12:54	1
Selenium	ND		0.025	0.0087	mg/L		06/03/14 09:05	06/04/14 12:54	1
Silver	ND		0.0060	0.0017	mg/L		06/03/14 09:05	06/04/14 12:54	1

Lab Sample ID: LCS 480-185333/2-A
Matrix: Water
Analysis Batch: 185788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.198		mg/L		99	80 - 120
Barium	0.200	0.218		mg/L		109	80 - 120
Cadmium	0.200	0.195		mg/L		98	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Lead	0.200	0.193		mg/L		97	80 - 120
Selenium	0.200	0.195		mg/L		98	80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-185333/2-A
Matrix: Water
Analysis Batch: 185788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0500	0.0530		mg/L		106	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-185774/1-A
Matrix: Water
Analysis Batch: 186056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/05/14 09:35	06/05/14 16:07	1

Lab Sample ID: LCS 480-185774/2-A
Matrix: Water
Analysis Batch: 186056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00568		mg/L		85	80 - 120

Method: 1010A - Ignitability, Pensky-Martens Closed Cup Method

Lab Sample ID: LCS 480-185699/1
Matrix: Water
Analysis Batch: 185699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-185947/1-A
Matrix: Water
Analysis Batch: 185949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		10	0.0030	mg/L		06/05/14 00:35	06/05/14 12:03	1

Lab Sample ID: LCS 480-185947/2-A
Matrix: Water
Analysis Batch: 185949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	1000	295		mg/L		30	10 - 100

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method: 9012 - Cyanide, Reactive (Continued)

Lab Sample ID: 480-60969-1 DU
 Matrix: Water
 Analysis Batch: 185949

Client Sample ID: Frac Tank
 Prep Type: Total/NA
 Prep Batch: 185947

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cyanide, Reactive	ND		0.200	J	mg/L		NC	20

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-185944/1-A
 Matrix: Water
 Analysis Batch: 185952

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 185944

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfide, Reactive	ND		10	0.57	mg/L		06/05/14 00:35	06/05/14 12:20	1

Lab Sample ID: LCS 480-185944/2-A
 Matrix: Water
 Analysis Batch: 185952

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 185944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 480-60969-1 DU
 Matrix: Water
 Analysis Batch: 185952

Client Sample ID: Frac Tank
 Prep Type: Total/NA
 Prep Batch: 185944

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Sulfide, Reactive	ND		ND		mg/L		NC	20

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

GC/MS VOA

Analysis Batch: 185319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	8260C	
LCS 480-185319/6	Lab Control Sample	Total/NA	Water	8260C	
MB 480-185319/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 185707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1 - DL	Frac Tank	Total/NA	Water	8260C	
LCS 480-185707/6	Lab Control Sample	Total/NA	Water	8260C	
MB 480-185707/8	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 185534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	3510C	
LCS 480-185534/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-185534/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 480-185534/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 188158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	8270D	185534
LCS 480-185534/2-A	Lab Control Sample	Total/NA	Water	8270D	185534
LCSD 480-185534/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	185534
MB 480-185534/1-A	Method Blank	Total/NA	Water	8270D	185534

GC Semi VOA

Analysis Batch: 185760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	8015D	185799
LCS 480-185799/2-A	Lab Control Sample	Total/NA	Water	8015D	185799
LCSD 480-185799/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	185799
MB 480-185799/1-A	Method Blank	Total/NA	Water	8015D	185799

Prep Batch: 185762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	3510C	
LCS 480-185762/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-185762/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 185799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	3510C	
LCS 480-185799/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-185799/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 480-185799/1-A	Method Blank	Total/NA	Water	3510C	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

GC Semi VOA (Continued)

Analysis Batch: 186166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	8082A	185762
LCS 480-185762/2-A	Lab Control Sample	Total/NA	Water	8082A	185762
MB 480-185762/1-A	Method Blank	Total/NA	Water	8082A	185762

Metals

Prep Batch: 185333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	3005A	
LCS 480-185333/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-185333/1-A	Method Blank	Total/NA	Water	3005A	

Prep Batch: 185774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	7470A	
LCS 480-185774/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-185774/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 185788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	6010C	185333
LCS 480-185333/2-A	Lab Control Sample	Total/NA	Water	6010C	185333
MB 480-185333/1-A	Method Blank	Total/NA	Water	6010C	185333

Analysis Batch: 186056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	7470A	185774
LCS 480-185774/2-A	Lab Control Sample	Total/NA	Water	7470A	185774
MB 480-185774/1-A	Method Blank	Total/NA	Water	7470A	185774

General Chemistry

Analysis Batch: 185503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	9040C	
LCS 480-185503/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 185699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	1010A	
LCS 480-185699/1	Lab Control Sample	Total/NA	Water	1010A	

Prep Batch: 185944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	7.3.4	
480-60969-1 DU	Frac Tank	Total/NA	Water	7.3.4	
LCS 480-185944/2-A	Lab Control Sample	Total/NA	Water	7.3.4	
MB 480-185944/1-A	Method Blank	Total/NA	Water	7.3.4	

TestAmerica Buffalo

QC Association Summary

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

General Chemistry (Continued)

Prep Batch: 185947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	7.3.3	
480-60969-1 DU	Frac Tank	Total/NA	Water	7.3.3	
LCS 480-185947/2-A	Lab Control Sample	Total/NA	Water	7.3.3	
MB 480-185947/1-A	Method Blank	Total/NA	Water	7.3.3	

Analysis Batch: 185949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	9012	185947
480-60969-1 DU	Frac Tank	Total/NA	Water	9012	185947
LCS 480-185947/2-A	Lab Control Sample	Total/NA	Water	9012	185947
MB 480-185947/1-A	Method Blank	Total/NA	Water	9012	185947

Analysis Batch: 185952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60969-1	Frac Tank	Total/NA	Water	9034	185944
480-60969-1 DU	Frac Tank	Total/NA	Water	9034	185944
LCS 480-185944/2-A	Lab Control Sample	Total/NA	Water	9034	185944
MB 480-185944/1-A	Method Blank	Total/NA	Water	9034	185944

Lab Chronicle

Client: Resource Control Associates, Inc.
 Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Client Sample ID: Frac Tank

Lab Sample ID: 480-60969-1

Date Collected: 05/30/14 07:30

Matrix: Water

Date Received: 06/03/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	185319	06/03/14 13:27	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	1000	185707	06/05/14 05:04	NQN	TAL BUF
Total/NA	Prep	3510C			185534	06/04/14 05:45	MCZ	TAL BUF
Total/NA	Analysis	8270D		20	188158	06/17/14 17:31	KAC	TAL BUF
Total/NA	Prep	3510C			185799	06/05/14 07:59	MCZ	TAL BUF
Total/NA	Analysis	8015D		1	185760	06/05/14 16:49	DLE	TAL BUF
Total/NA	Prep	3510C			185762	06/05/14 07:22	MCZ	TAL BUF
Total/NA	Analysis	8082A		1000	186166	06/07/14 07:25	JMM	TAL BUF
Total/NA	Prep	3005A			185333	06/03/14 09:05	SS1	TAL BUF
Total/NA	Analysis	6010C		1	185788	06/04/14 14:04	MTM2	TAL BUF
Total/NA	Prep	7470A			185774	06/05/14 09:35	LRK	TAL BUF
Total/NA	Analysis	7470A		1	186056	06/05/14 16:40	LRK	TAL BUF
Total/NA	Analysis	1010A		1	185699	06/04/14 08:21	RP	TAL BUF
Total/NA	Prep	7.3.3			185947	06/05/14 00:35	LAW	TAL BUF
Total/NA	Analysis	9012		1	185949	06/05/14 12:03	LAW	TAL BUF
Total/NA	Prep	7.3.4			185944	06/05/14 00:35	LAW	TAL BUF
Total/NA	Analysis	9034		1	185952	06/05/14 12:20	LAW	TAL BUF
Total/NA	Analysis	9040C		1	185503	06/03/14 19:30	KS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Certification Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Massachusetts	State Program	1	M-NY044	06-30-14 *
Rhode Island	State Program	1	LAO00328	12-30-14

* Certification renewal pending - certification considered valid.

Method Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed Cup Method	SW846	TAL BUF
9012	Cyanide, Reactive	SW846	TAL BUF
9034	Sulfide, Reactive	SW846	TAL BUF
9040C	pH	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Resource Control Associates, Inc.
Project/Site: Bay Spring, Barrington

TestAmerica Job ID: 480-60969-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60969-1	Frac Tank	Water	05/30/14 07:30	06/03/14 01:00

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Login Sample Receipt Checklist

Client: Resource Control Associates, Inc.

Job Number: 480-60969-1

Login Number: 60969

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-61440-1

Client Project/Site: 90 Bay Spring Ave, Barrington, RI

For:

Resource Control Associates, Inc.

474 Broadway

Pawtucket, Rhode Island 02860

Attn: Ms. Danielle Eastman-Getsinger



Authorized for release by:

6/13/2014 10:01:44 AM

Rich Emerich, Analyst V

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Designee for

Steve Hartmann, Service Center Manager

(413)572-4000

steve.hartmann@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	7
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

Definitions/Glossary

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Job ID: 480-61440-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 6/7/2014 at 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

Receipt Notes Exceptions

The following samples were preserved via freezing on 6/7/2014 at 05:30: MW-104 (5-8') (480-61440-4), MW-106 (6-6.5') (480-61440-6) . This is outside the 48 hour time frame required by the method.

GC/MS VOA

Method 8260C: The method blank for prep batch 186888 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260C: The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for batch 186888 recovered outside control limits for the following analytes: Chloroethane and Trichlorofluoromethane. These were not requested spike compounds; therefore, the data have been qualified and reported.

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 186888 recovered outside control limits for the following analytes: Chloromethane, cis-1,3-Dichloropropene and Vinyl Chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 186888 recovered above the upper control limit for 1,1,1-Trichloroethane, Chloroethane and Vinyl Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-186888/4).

Method 8260C: The continuing calibration verification (CCV) associated with batch 186888 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-chloropropene and Methyl Acetate. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-104 (5-8') (480-61440-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 187006 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method 8260C: The continuing calibration verification (CCV) associated with batch 187006 recovered above the upper control limit for several analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 187006 recovered outside acceptance criteria, low biased, for several analytes. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015D: The following sample was diluted due to an abundance of target analytes: MW-104 (5-8') (480-61440-4). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3550C: The following sample: MW-106 (6-6.5') (480-61440-6) was decanted prior to preparation.

Case Narrative

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Job ID: 480-61440-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Client Sample ID: MW-104 (5-8')

Lab Sample ID: 480-61440-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5300		3400	980	ug/Kg	40	☼	8260C	Total/NA
Isopropylbenzene	5500		3400	500	ug/Kg	40	☼	8260C	Total/NA
Methylene Chloride	2600	J B	3400	660	ug/Kg	40	☼	8260C	Total/NA
Xylenes, Total	52000		6700	560	ug/Kg	40	☼	8260C	Total/NA
Diesel Range Organics [C10-C28]	3100		440	130	mg/Kg	20	☼	8015D	Total/NA

Client Sample ID: MW-106 (6-6.5')

Lab Sample ID: 480-61440-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (MIBK)	45	J	380	24	ug/Kg	1	☼	8260C	Total/NA
Methyl acetate	83		75	36	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	84	B	75	15	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	16	J	150	13	ug/Kg	1	☼	8260C	Total/NA
Diesel Range Organics [C10-C28]	29		22	6.5	mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Client Sample ID: MW-104 (5-8')

Lab Sample ID: 480-61440-4

Date Collected: 06/04/14 17:00

Matrix: Solid

Date Received: 06/07/14 01:30

Percent Solids: 74.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3400	930	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,1,2,2-Tetrachloroethane	ND		3400	540	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3400	1700	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,1,2-Trichloroethane	ND		3400	700	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,1-Dichloroethane	ND		3400	1000	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,1-Dichloroethene	ND		3400	1200	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,2,4-Trichlorobenzene	ND		3400	1300	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,2-Dibromo-3-Chloropropane	ND		3400	1700	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,2-Dibromoethane	ND		3400	590	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,2-Dichlorobenzene	ND		3400	860	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,2-Dichloroethane	ND		3400	1400	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,2-Dichloropropane	ND		3400	540	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,3-Dichlorobenzene	ND		3400	900	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
1,4-Dichlorobenzene	ND		3400	470	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
2-Butanone (MEK)	ND		17000	10000	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
2-Hexanone	ND		17000	6900	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
4-Methyl-2-pentanone (MIBK)	ND		17000	1100	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Acetone	ND		17000	14000	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Benzene	ND		3400	640	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Bromodichloromethane	ND		3400	670	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Bromoform	ND		3400	1700	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Bromomethane	ND		3400	740	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Carbon disulfide	ND		3400	1500	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Carbon tetrachloride	ND		3400	860	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Chlorobenzene	ND		3400	440	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Chloroethane	ND	*	3400	700	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Chloroform	ND		3400	2300	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Chloromethane	ND	*	3400	800	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
cis-1,2-Dichloroethene	ND		3400	930	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
cis-1,3-Dichloropropene	ND	*	3400	800	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Cyclohexane	ND		3400	740	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Dibromochloromethane	ND		3400	1600	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Dichlorodifluoromethane	ND		3400	1500	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Ethylbenzene	5300		3400	980	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Isopropylbenzene	5500		3400	500	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Methyl acetate	ND		3400	1600	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Methyl tert-butyl ether	ND		3400	1300	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Methylcyclohexane	ND		3400	1600	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Methylene Chloride	2600	J B	3400	660	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Styrene	ND		3400	810	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Tetrachloroethene	ND		3400	450	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Toluene	ND		3400	900	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
trans-1,2-Dichloroethene	ND		3400	790	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
trans-1,3-Dichloropropene	ND		3400	330	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Trichloroethene	ND		3400	930	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Trichlorofluoromethane	ND	*	3400	1600	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Vinyl chloride	ND	*	3400	1100	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40
Xylenes, Total	52000		6700	560	ug/Kg	☼	06/10/14 15:39	06/11/14 02:19	40

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Client Sample ID: MW-104 (5-8')

Lab Sample ID: 480-61440-4

Date Collected: 06/04/14 17:00

Matrix: Solid

Date Received: 06/07/14 01:30

Percent Solids: 74.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		53 - 146	06/10/14 15:39	06/11/14 02:19	40
4-Bromofluorobenzene (Surr)	111		49 - 148	06/10/14 15:39	06/11/14 02:19	40
Toluene-d8 (Surr)	102		50 - 149	06/10/14 15:39	06/11/14 02:19	40

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3100		440	130	mg/Kg	☼	06/09/14 14:29	06/11/14 06:53	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	155	X	48 - 125	06/09/14 14:29	06/11/14 06:53	20

Client Sample ID: MW-106 (6-6.5')

Lab Sample ID: 480-61440-6

Date Collected: 06/04/14 19:00

Matrix: Solid

Date Received: 06/07/14 01:30

Percent Solids: 75.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		75	21	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,1,2,2-Tetrachloroethane	ND		75	12	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		75	38	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,1,2-Trichloroethane	ND		75	16	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,1-Dichloroethane	ND		75	23	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,1-Dichloroethene	ND		75	26	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,2,4-Trichlorobenzene	ND		75	28	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,2-Dibromo-3-Chloropropane	ND		75	38	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,2-Dibromoethane	ND		75	13	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,2-Dichlorobenzene	ND		75	19	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,2-Dichloroethane	ND		75	31	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,2-Dichloropropane	ND		75	12	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,3-Dichlorobenzene	ND		75	20	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
1,4-Dichlorobenzene	ND		75	11	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
2-Butanone (MEK)	ND		380	220	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
2-Hexanone	ND		380	150	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
4-Methyl-2-pentanone (MIBK)	45	J	380	24	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Acetone	ND		380	310	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Benzene	ND		75	14	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Bromodichloromethane	ND		75	15	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Bromoform	ND		75	38	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Bromomethane	ND		75	17	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Carbon disulfide	ND		75	34	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Carbon tetrachloride	ND		75	19	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Chlorobenzene	ND		75	9.9	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Chloroethane	ND		75	16	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Chloroform	ND		75	52	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Chloromethane	ND	*	75	18	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
cis-1,2-Dichloroethene	ND		75	21	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
cis-1,3-Dichloropropene	ND	*	75	18	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Cyclohexane	ND		75	17	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Dibromochloromethane	ND		75	36	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Dichlorodifluoromethane	ND		75	33	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Ethylbenzene	ND		75	22	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1

TestAmerica Buffalo

Client Sample Results

Client: Resource Control Associates, Inc.
 Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Client Sample ID: MW-106 (6-6.5')

Lab Sample ID: 480-61440-6

Date Collected: 06/04/14 19:00

Matrix: Solid

Date Received: 06/07/14 01:30

Percent Solids: 75.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		75	11	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Methyl acetate	83		75	36	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Methyl tert-butyl ether	ND		75	28	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Methylcyclohexane	ND		75	35	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Methylene Chloride	84 B		75	15	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Styrene	ND		75	18	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Tetrachloroethene	ND		75	10	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Toluene	ND		75	20	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
trans-1,2-Dichloroethene	ND		75	18	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
trans-1,3-Dichloropropene	ND		75	7.4	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Trichloroethene	ND		75	21	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Trichlorofluoromethane	ND		75	35	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Vinyl chloride	ND *		75	25	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1
Xylenes, Total	16 J		150	13	ug/Kg	☼	06/10/14 15:39	06/11/14 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		53 - 146	06/10/14 15:39	06/11/14 13:29	1
4-Bromofluorobenzene (Surr)	114		49 - 148	06/10/14 15:39	06/11/14 13:29	1
Toluene-d8 (Surr)	109		50 - 149	06/10/14 15:39	06/11/14 13:29	1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	29		22	6.5	mg/Kg	☼	06/09/14 14:29	06/11/14 07:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		48 - 125	06/09/14 14:29	06/11/14 07:27	1

Surrogate Summary

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (53-146)	BFB (49-148)	TOL (50-149)
480-61440-4	MW-104 (5-8')	111	111	102
480-61440-6	MW-106 (6-6.5')	109	114	109
LCS 480-186868/1-A	Lab Control Sample	110	118	107
MB 480-186868/2-A	Method Blank	108	109	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (48-125)
480-61440-4	MW-104 (5-8')	155 X
480-61440-6	MW-106 (6-6.5')	89
LCS 480-186580/2-A	Lab Control Sample	100
LCSD 480-186580/3-A	Lab Control Sample Dup	98
MB 480-186580/1-A	Method Blank	91

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-186868/2-A

Matrix: Solid

Analysis Batch: 186888

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 186868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,1-Dichloroethane	ND		100	31	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,1-Dichloroethene	ND		100	35	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,2-Dibromoethane	ND		100	17	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,2-Dichlorobenzene	ND		100	25	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,2-Dichloroethane	ND		100	41	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,2-Dichloropropane	ND		100	16	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
2-Butanone (MEK)	ND		500	300	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
2-Hexanone	ND		500	200	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Acetone	ND		500	410	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Benzene	ND		100	19	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Bromodichloromethane	ND		100	20	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Bromoform	ND		100	50	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Bromomethane	ND		100	22	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Carbon disulfide	ND		100	45	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Carbon tetrachloride	ND		100	25	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Chlorobenzene	ND		100	13	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Chloroethane	ND		100	21	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Chloroform	ND		100	68	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Chloromethane	ND		100	24	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Cyclohexane	ND		100	22	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Dibromochloromethane	ND		100	48	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Ethylbenzene	ND		100	29	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Isopropylbenzene	ND		100	15	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Methyl acetate	ND		100	48	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Methylcyclohexane	ND		100	47	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Methylene Chloride	98.6	J	100	20	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Styrene	ND		100	24	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Tetrachloroethene	ND		100	13	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Toluene	ND		100	27	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Trichloroethene	ND		100	28	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Trichlorofluoromethane	ND		100	47	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Vinyl chloride	ND		100	33	ug/Kg		06/10/14 15:39	06/11/14 01:57	1
Xylenes, Total	ND		200	17	ug/Kg		06/10/14 15:39	06/11/14 01:57	1

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
 Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-186868/2-A

Matrix: Solid

Analysis Batch: 186888

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 186868

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		53 - 146	06/10/14 15:39	06/11/14 01:57	1
4-Bromofluorobenzene (Surr)	109		49 - 148	06/10/14 15:39	06/11/14 01:57	1
Toluene-d8 (Surr)	104		50 - 149	06/10/14 15:39	06/11/14 01:57	1

Lab Sample ID: LCS 480-186868/1-A

Matrix: Solid

Analysis Batch: 186888

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 186868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1-Dichloroethane	2470	2160		ug/Kg		87	78 - 121
1,1-Dichloroethene	2470	2460		ug/Kg		100	48 - 133
1,2-Dichlorobenzene	2470	2640		ug/Kg		107	78 - 125
1,2-Dichloroethane	2470	2700		ug/Kg		109	74 - 127
Benzene	2470	2560		ug/Kg		104	77 - 125
Chlorobenzene	2470	2620		ug/Kg		106	76 - 126
cis-1,2-Dichloroethene	2470	2580		ug/Kg		105	79 - 124
Ethylbenzene	2470	2620		ug/Kg		106	78 - 124
Methyl tert-butyl ether	2470	2670		ug/Kg		108	67 - 137
Tetrachloroethene	2470	2460		ug/Kg		100	73 - 133
Toluene	2470	2570		ug/Kg		104	75 - 124
trans-1,2-Dichloroethene	2470	2580		ug/Kg		105	74 - 129
Trichloroethene	2470	2930		ug/Kg		119	75 - 131

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	110		53 - 146
4-Bromofluorobenzene (Surr)	118		49 - 148
Toluene-d8 (Surr)	107		50 - 149

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-186580/1-A

Matrix: Solid

Analysis Batch: 186664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 186580

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		16	4.9	mg/Kg		06/09/14 14:29	06/10/14 10:40	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
o-Terphenyl	91		48 - 125	06/09/14 14:29	06/10/14 10:40	1

Lab Sample ID: LCS 480-186580/2-A

Matrix: Solid

Analysis Batch: 186664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 186580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Diesel Range Organics [C10-C28]	48.8	49.7		mg/Kg		102	63 - 127

TestAmerica Buffalo

QC Sample Results

Client: Resource Control Associates, Inc.
 Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 480-186580/2-A

Matrix: Solid

Analysis Batch: 186664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 186580

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	100		48 - 125

Lab Sample ID: LCSD 480-186580/3-A

Matrix: Solid

Analysis Batch: 186664

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 186580

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Diesel Range Organics [C10-C28]	49.6	48.7		mg/Kg		98	63 - 127	2	35

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	98		48 - 125

QC Association Summary

Client: Resource Control Associates, Inc.
 Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

GC/MS VOA

Prep Batch: 186868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61440-4	MW-104 (5-8')	Total/NA	Solid	5035A	
480-61440-6	MW-106 (6-6.5')	Total/NA	Solid	5035A	
LCS 480-186868/1-A	Lab Control Sample	Total/NA	Solid	5035A	
MB 480-186868/2-A	Method Blank	Total/NA	Solid	5035A	

Analysis Batch: 186888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61440-4	MW-104 (5-8')	Total/NA	Solid	8260C	186868
LCS 480-186868/1-A	Lab Control Sample	Total/NA	Solid	8260C	186868
MB 480-186868/2-A	Method Blank	Total/NA	Solid	8260C	186868

Analysis Batch: 187006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61440-6	MW-106 (6-6.5')	Total/NA	Solid	8260C	186868

GC Semi VOA

Prep Batch: 186580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61440-4	MW-104 (5-8')	Total/NA	Solid	3550C	
480-61440-6	MW-106 (6-6.5')	Total/NA	Solid	3550C	
LCS 480-186580/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-186580/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 480-186580/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 186664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61440-4	MW-104 (5-8')	Total/NA	Solid	8015D	186580
480-61440-6	MW-106 (6-6.5')	Total/NA	Solid	8015D	186580
LCS 480-186580/2-A	Lab Control Sample	Total/NA	Solid	8015D	186580
LCSD 480-186580/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	186580
MB 480-186580/1-A	Method Blank	Total/NA	Solid	8015D	186580

General Chemistry

Analysis Batch: 186357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-61440-4	MW-104 (5-8')	Total/NA	Solid	Moisture	
480-61440-6	MW-106 (6-6.5')	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Resource Control Associates, Inc.
 Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Client Sample ID: MW-104 (5-8')

Lab Sample ID: 480-61440-4

Date Collected: 06/04/14 17:00

Matrix: Solid

Date Received: 06/07/14 01:30

Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			186868	06/10/14 15:39	RAS	TAL BUF
Total/NA	Analysis	8260C		40	186888	06/11/14 02:19	NQN	TAL BUF
Total/NA	Prep	3550C			186580	06/09/14 14:29	JLS	TAL BUF
Total/NA	Analysis	8015D		20	186664	06/11/14 06:53	JRL	TAL BUF
Total/NA	Analysis	Moisture		1	186357	06/07/14 16:15	CMK	TAL BUF

Client Sample ID: MW-106 (6-6.5')

Lab Sample ID: 480-61440-6

Date Collected: 06/04/14 19:00

Matrix: Solid

Date Received: 06/07/14 01:30

Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			186868	06/10/14 15:39	RAS	TAL BUF
Total/NA	Analysis	8260C		1	187006	06/11/14 13:29	GTG	TAL BUF
Total/NA	Prep	3550C			186580	06/09/14 14:29	JLS	TAL BUF
Total/NA	Analysis	8015D		1	186664	06/11/14 07:27	JRL	TAL BUF
Total/NA	Analysis	Moisture		1	186357	06/07/14 16:15	CMK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Rhode Island	State Program	1	LAO00328	12-30-14

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Method Summary

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Resource Control Associates, Inc.
Project/Site: 90 Bay Spring Ave, Barrington, RI

TestAmerica Job ID: 480-61440-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-61440-4	MW-104 (5-8')	Solid	06/04/14 17:00	06/07/14 01:30
480-61440-6	MW-106 (6-6.5')	Solid	06/04/14 19:00	06/07/14 01:30

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53 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (413) 572-3707

Carrier Tracking No(s): 30058
 Page: 1 of 1
 Job #:

Analyses Requested	Performs MS/MSD on This Sample? (Y/N)	Was the Sample Field Filtered? (Y/N)	Total Number of Containers (per line)	Special Instructions & Notes:
PCEA & Metals	X	X	1	HOLD
VOC x 6760	X	X	1	HOLD
TPH x 6100	X	X	1	HOLD
			4	
	X	X	1	HOLD
	X	X	4	

Company: Resumo Controls
 Address: 474 Broadway
 City: Pawtucket
 State and Zip: RI 02860
 Client's Phone: (401) 786-6860
 Client's Contact Email: resumocontrols.com
 Client's Project Name/Number: 731A Bay Spring Realty Co
 Sample Collection Site Name & Location: 90 Bay Spring Ave, Pawtucket, RI

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hr Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Status
MW-101 (1-2')	6/4/14	0930	G	S	
MW-102 (2-3')	1335				
MW-103 (4-5')	1545				
MW-104 (5-8')	1700				
MW-105 (3-4')	1735				
MW-106 (6-6.5')	1900				

Client Information:
 Client Contact: Danielle Gaskinger
 Company: Resumo Controls
 Address: 474 Broadway
 City: Pawtucket
 State and Zip: RI 02860
 Client's Phone: (401) 786-6860
 Client's Contact Email: resumocontrols.com
 Client's Project Name/Number: 731A Bay Spring Realty Co
 Sample Collection Site Name & Location: 90 Bay Spring Ave, Pawtucket, RI

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

** Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other

Relinquished by: Emily Gaskinger Date/Time: 6/6/14 13:30 Company: RCA
 Relinquished by: Emily Gaskinger Date/Time: 6-6-14 16:00 Company: RCA
 Relinquished by: Emily Gaskinger Date/Time: 6-6-14 16:00 Company: RCA

Custody Seal No.: 42141
 Custody Seals Intact: Yes No

Cooler Temperature(s) °C and Other Remarks: 42141

Login Sample Receipt Checklist

Client: Resource Control Associates, Inc.

Job Number: 480-61440-1

Login Number: 61440

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	





CERTIFICATE OF ANALYSIS

Danielle Eastman Getsinger
Resource Controls
474 Broadway
Pawtucket, RI 02860-1377

RE: Barrington (7131A)
ESS Laboratory Work Order Number: 1406156

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 4:46 pm, Jun 13, 2014

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

SAMPLE RECEIPT

The following samples were received on June 06, 2014 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1406156-01	MW-1	Ground Water	6010B, 6020A, 7470A
1406156-02	MW-2	Ground Water	6010B, 6020A, 7470A, 8260B
1406156-03	MW-3	Ground Water	6010B, 6020A, 7470A, 8260B
1406156-04	MW-5	Ground Water	6010B, 6020A, 7470A, 8260B
1406156-05	MW-101	Ground Water	6010B, 6020A, 7470A
1406156-06	MW-102	Ground Water	6010B, 6020A, 7470A
1406156-07	MW-103	Ground Water	6010B, 6020A, 7470A
1406156-08	MW-104	Ground Water	6010B, 6020A, 7470A, 8260B
1406156-09	MW-105	Ground Water	6010B, 6020A, 7470A, 8260B
1406156-10	MW-106	Ground Water	6010B, 6020A, 7470A, 8260B
1406156-11	Trip Blank	Aqueous	8260B



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

PROJECT NARRATIVE

8260B Volatile Organic Compounds

CF40938-BS1 Blank Spike recovery is above upper control limit (B+).
Acetone (139% @ 70-130%)

CF40938-BSD1 Blank Spike recovery is above upper control limit (B+).
Acetone (159% @ 70-130%)

CF40938-BSD1 Blank Spike recovery is below lower control limit (B-).
Chloroethane (61% @ 70-130%)

CF40938-BSD1 Relative percent difference for duplicate is outside of criteria (D+).
Chloroethane (30%)

Dissolved Metals Aqueous

CF41003-BS1 Blank Spike recovery is above upper control limit (B+).
Selenium (121% @ 80-120%)

CF41003-BSD1 Blank Spike recovery is above upper control limit (B+).
Lead (126% @ 80-120%), Selenium (124% @ 80-120%)

Total Metals Aqueous

CF41003-BS1 Blank Spike recovery is above upper control limit (B+).
Selenium (121% @ 80-120%)

CF41003-BSD1 Blank Spike recovery is above upper control limit (B+).
Lead (126% @ 80-120%), Selenium (124% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-1
Date Sampled: 06/06/14 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-01
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 11:49	50	25	CF41003
Barium	ND (0.025)		6010B		1	KJK	06/11/14 14:11	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	KJK	06/11/14 14:11	50	25	CF40902
Chromium	ND (0.010)		6010B		1	KJK	06/11/14 14:11	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 11:49	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 2:12	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 11:49	50	25	CF41003
Silver	ND (0.005)		6010B		1	KJK	06/11/14 14:11	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-1
Date Sampled: 06/06/14 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-01
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 9:55	50	25	CF41003
Barium	ND (0.025)		6010B		1	NAR	06/13/14 2:12	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 2:12	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 2:12	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 9:55	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 12:44	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 9:55	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 2:12	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-2
Date Sampled: 06/06/14 08:30
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-02
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 11:55	50	25	CF41003
Barium	0.028 (0.025)		6010B		1	KJK	06/11/14 14:32	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	KJK	06/11/14 14:32	50	25	CF40902
Chromium	ND (0.010)		6010B		1	KJK	06/11/14 14:32	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 11:55	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 2:16	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 11:55	50	25	CF41003
Silver	ND (0.005)		6010B		1	KJK	06/11/14 14:32	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-2
Date Sampled: 06/06/14 08:30
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-02
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 10:37	50	25	CF41003
Barium	0.035 (0.025)		6010B		1	NAR	06/13/14 2:16	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 2:16	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 2:16	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 10:37	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 12:47	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 10:37	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 2:16	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-2
Date Sampled: 06/06/14 08:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,1-Dichloroethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,1-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,1-Dichloropropene	ND (0.0020)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,2-Dibromoethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,2-Dichloroethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,3-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	06/09/14 20:02	CXF0124	CF40938
1-Chlorohexane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
2,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
2-Butanone	ND (0.0100)		8260B		1	06/09/14 20:02	CXF0124	CF40938
2-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
2-Hexanone	ND (0.0100)		8260B		1	06/09/14 20:02	CXF0124	CF40938
4-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
4-Isopropyltoluene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Acetone	ND (0.0100)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Benzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Bromobenzene	ND (0.0020)		8260B		1	06/09/14 20:02	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-2
Date Sampled: 06/06/14 08:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Bromodichloromethane	ND (0.0006)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Bromoform	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Bromomethane	ND (0.0020)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Carbon Disulfide	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Carbon Tetrachloride	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Chlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Chloroethane	ND (0.0020)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Chloroform	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Chloromethane	ND (0.0020)		8260B		1	06/09/14 20:02	CXF0124	CF40938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Dibromochloromethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Dibromomethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Diethyl Ether	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Di-isopropyl ether	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Ethylbenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Hexachlorobutadiene	ND (0.0006)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Hexachloroethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Isopropylbenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Methylene Chloride	ND (0.0020)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Naphthalene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
n-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
n-Propylbenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
sec-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Styrene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
tert-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Tetrachloroethene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-2
Date Sampled: 06/06/14 08:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Toluene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Trichloroethene	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Trichlorofluoromethane	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Vinyl Acetate	ND (0.0050)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Vinyl Chloride	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Xylene O	ND (0.0010)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Xylene P,M	ND (0.0020)		8260B		1	06/09/14 20:02	CXF0124	CF40938
Xylenes (Total)	ND (0.0020)		8260B		1	06/09/14 20:02		[CALC]
Trihalomethanes (Total)	ND (0.0036)		8260B			06/09/14 20:02		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>87 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>92 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>94 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 06/06/14 10:20
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-03
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0036 (0.0010)		6020A		10	NAR	06/12/14 12:01	50	25	CF41003
Barium	0.052 (0.025)		6010B		1	KJK	06/11/14 14:36	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	KJK	06/11/14 14:36	50	25	CF40902
Chromium	ND (0.010)		6010B		1	KJK	06/11/14 14:36	50	25	CF40902
Lead	0.0117 (0.0100)		6020A		10	NAR	06/12/14 12:01	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 2:21	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 12:01	50	25	CF41003
Silver	ND (0.005)		6010B		1	KJK	06/11/14 14:36	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 06/06/14 10:20
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-03
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0042 (0.0010)		6020A		10	NAR	06/12/14 10:43	50	25	CF41003
Barium	0.061 (0.025)		6010B		1	NAR	06/13/14 2:21	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 2:21	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 2:21	50	25	CF40902
Lead	0.0198 (0.0100)		6020A		10	NAR	06/12/14 10:43	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 12:49	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 10:43	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 2:21	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 06/06/14 10:20
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,1-Dichloroethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,1-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,1-Dichloropropene	ND (0.0020)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,2,4-Trimethylbenzene	0.0041 (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,2-Dibromoethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,2-Dichloroethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,3-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	06/09/14 20:27	CXF0124	CF40938
1-Chlorohexane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
2,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
2-Butanone	ND (0.0100)		8260B		1	06/09/14 20:27	CXF0124	CF40938
2-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
2-Hexanone	ND (0.0100)		8260B		1	06/09/14 20:27	CXF0124	CF40938
4-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
4-Isopropyltoluene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Acetone	ND (0.0100)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Benzene	0.0034 (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Bromobenzene	ND (0.0020)		8260B		1	06/09/14 20:27	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 06/06/14 10:20
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Bromodichloromethane	ND (0.0006)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Bromoform	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Bromomethane	ND (0.0020)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Carbon Disulfide	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Carbon Tetrachloride	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Chlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Chloroethane	ND (0.0020)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Chloroform	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Chloromethane	ND (0.0020)		8260B		1	06/09/14 20:27	CXF0124	CF40938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Dibromochloromethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Dibromomethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Diethyl Ether	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Di-isopropyl ether	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Ethylbenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Hexachlorobutadiene	ND (0.0006)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Hexachloroethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Isopropylbenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Methylene Chloride	ND (0.0020)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Naphthalene	0.0016 (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
n-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
n-Propylbenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
sec-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Styrene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
tert-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Tetrachloroethene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-3
Date Sampled: 06/06/14 10:20
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Toluene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Trichloroethene	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Trichlorofluoromethane	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Vinyl Acetate	ND (0.0050)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Vinyl Chloride	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Xylene O	ND (0.0010)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Xylene P,M	ND (0.0020)		8260B		1	06/09/14 20:27	CXF0124	CF40938
Xylenes (Total)	ND (0.0020)		8260B		1	06/09/14 20:27		[CALC]
Trihalomethanes (Total)	ND (0.0036)		8260B			06/09/14 20:27		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>90 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>80 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>95 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 06/06/14 11:15
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-04
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 12:07	50	25	CF41003
Barium	ND (0.025)		6010B		1	KJK	06/11/14 14:40	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	KJK	06/11/14 14:40	50	25	CF40902
Chromium	ND (0.010)		6010B		1	KJK	06/11/14 14:40	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 12:07	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 2:38	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 12:07	50	25	CF41003
Silver	ND (0.005)		6010B		1	KJK	06/11/14 14:40	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 06/06/14 11:15
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-04
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 10:49	50	25	CF41003
Barium	ND (0.025)		6010B		1	NAR	06/13/14 2:38	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 2:38	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 2:38	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 10:49	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 12:51	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 10:49	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 2:38	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 06/06/14 11:15
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,1-Dichloroethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,1-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,1-Dichloropropene	ND (0.0020)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,2,4-Trimethylbenzene	0.0032 (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,2-Dibromoethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,2-Dichloroethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,3,5-Trimethylbenzene	0.0795 (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,3-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	06/09/14 20:53	CXF0124	CF40938
1-Chlorohexane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
2,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
2-Butanone	ND (0.0100)		8260B		1	06/09/14 20:53	CXF0124	CF40938
2-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
2-Hexanone	ND (0.0100)		8260B		1	06/09/14 20:53	CXF0124	CF40938
4-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
4-Isopropyltoluene	0.0089 (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Acetone	ND (0.0100)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Benzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Bromobenzene	ND (0.0020)		8260B		1	06/09/14 20:53	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 06/06/14 11:15
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Bromodichloromethane	ND (0.0006)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Bromoform	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Bromomethane	ND (0.0020)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Carbon Disulfide	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Carbon Tetrachloride	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Chlorobenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Chloroethane	ND (0.0020)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Chloroform	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Chloromethane	ND (0.0020)		8260B		1	06/09/14 20:53	CXF0124	CF40938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Dibromochloromethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Dibromomethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Diethyl Ether	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Di-isopropyl ether	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Ethylbenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Hexachlorobutadiene	ND (0.0006)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Hexachloroethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Isopropylbenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Methylene Chloride	ND (0.0020)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Naphthalene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
n-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
n-Propylbenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
sec-Butylbenzene	0.0010 (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Styrene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
tert-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Tetrachloroethene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-5
Date Sampled: 06/06/14 11:15
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Toluene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Trichloroethene	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Trichlorofluoromethane	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Vinyl Acetate	ND (0.0050)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Vinyl Chloride	ND (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Xylene O	0.0012 (0.0010)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Xylene P,M	ND (0.0020)		8260B		1	06/09/14 20:53	CXF0124	CF40938
Xylenes (Total)	ND (0.0020)		8260B		1	06/09/14 20:53		[CALC]
Trihalomethanes (Total)	ND (0.0036)		8260B			06/09/14 20:53		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>85 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>90 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>94 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-101
Date Sampled: 06/06/14 12:30
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-05
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0402 (0.0010)		6020A		10	NAR	06/12/14 12:13	50	25	CF41003
Barium	ND (0.025)		6010B		1	ICP	06/11/14 14:58	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	ICP	06/11/14 14:58	50	25	CF40902
Chromium	ND (0.010)		6010B		1	ICP	06/11/14 14:58	50	25	CF40902
Lead	0.0177 (0.0100)		6020A		10	NAR	06/12/14 12:13	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 2:42	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 12:13	50	25	CF41003
Silver	ND (0.005)		6010B		1	ICP	06/11/14 14:58	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-101
Date Sampled: 06/06/14 12:30
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-05
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0807 (0.0010)		6020A		10	NAR	06/12/14 10:55	50	25	CF41003
Barium	0.039 (0.025)		6010B		1	NAR	06/13/14 2:42	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 2:42	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 2:42	50	25	CF40902
Lead	0.0222 (0.0100)		6020A		10	NAR	06/12/14 10:55	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 12:54	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 10:55	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 2:42	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-102
Date Sampled: 06/06/14 12:20
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-06
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0018 (0.0010)		6020A		10	NAR	06/12/14 12:19	50	25	CF41003
Barium	ND (0.025)		6010B		1	ICP	06/11/14 15:02	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	ICP	06/11/14 15:02	50	25	CF40902
Chromium	ND (0.010)		6010B		1	ICP	06/11/14 15:02	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 12:19	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 2:46	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 12:19	50	25	CF41003
Silver	ND (0.005)		6010B		1	ICP	06/11/14 15:02	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-102
Date Sampled: 06/06/14 12:20
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-06
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0029 (0.0010)		6020A		10	NAR	06/12/14 11:01	50	25	CF41003
Barium	0.025 (0.025)		6010B		1	NAR	06/13/14 2:46	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 2:46	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 2:46	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 11:01	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 12:56	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 11:01	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 2:46	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-103
Date Sampled: 06/06/14 13:00
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-07
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 12:37	50	25	CF41003
Barium	0.028 (0.025)		6010B		1	ICP	06/11/14 15:06	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	ICP	06/11/14 15:06	50	25	CF40902
Chromium	ND (0.010)		6010B		1	ICP	06/11/14 15:06	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 12:37	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 2:50	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 12:37	50	25	CF41003
Silver	ND (0.005)		6010B		1	ICP	06/11/14 15:06	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-103
Date Sampled: 06/06/14 13:00
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-07
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 11:07	50	25	CF41003
Barium	0.034 (0.025)		6010B		1	NAR	06/13/14 2:50	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 2:50	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 2:50	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 11:07	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 13:03	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 11:07	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 2:50	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-104
Date Sampled: 06/06/14 14:05
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-08
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 12:43	50	25	CF41003
Barium	ND (0.025)		6010B		1	ICP	06/11/14 15:11	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	ICP	06/11/14 15:11	50	25	CF40902
Chromium	ND (0.010)		6010B		1	ICP	06/11/14 15:11	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 12:43	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 2:54	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 12:43	50	25	CF41003
Silver	ND (0.005)		6010B		1	ICP	06/11/14 15:11	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-104
Date Sampled: 06/06/14 14:05
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-08
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 11:25	50	25	CF41003
Barium	ND (0.025)		6010B		1	NAR	06/13/14 2:54	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 2:54	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 2:54	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 11:25	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 13:05	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 11:25	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 2:54	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-104
Date Sampled: 06/06/14 14:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,1,1-Trichloroethane	0.0027 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,1-Dichloroethane	0.0012 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,1-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,1-Dichloropropene	ND (0.0020)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,2,4-Trimethylbenzene	0.0627 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,2-Dibromoethane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,2-Dichloroethane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,3,5-Trimethylbenzene	0.285 (0.0100)		8260B		10	06/10/14 21:36	CXF0124	CF40938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,3-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	06/09/14 21:43	CXF0124	CF40938
1-Chlorohexane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
2,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
2-Butanone	ND (0.0100)		8260B		1	06/09/14 21:43	CXF0124	CF40938
2-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
2-Hexanone	ND (0.0100)		8260B		1	06/09/14 21:43	CXF0124	CF40938
4-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
4-Isopropyltoluene	0.0080 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Acetone	ND (0.0100)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Benzene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Bromobenzene	ND (0.0020)		8260B		1	06/09/14 21:43	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-104
Date Sampled: 06/06/14 14:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Bromodichloromethane	ND (0.0006)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Bromoform	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Bromomethane	ND (0.0020)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Carbon Disulfide	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Carbon Tetrachloride	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Chlorobenzene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Chloroethane	ND (0.0020)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Chloroform	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Chloromethane	ND (0.0020)		8260B		1	06/09/14 21:43	CXF0124	CF40938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Dibromochloromethane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Dibromomethane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Diethyl Ether	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Di-isopropyl ether	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Ethylbenzene	0.0044 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Hexachlorobutadiene	ND (0.0006)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Hexachloroethane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Isopropylbenzene	0.0034 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Methylene Chloride	ND (0.0020)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Naphthalene	0.0026 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
n-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
n-Propylbenzene	0.0032 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
sec-Butylbenzene	0.0018 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Styrene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
tert-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Tetrachloroethene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-104
Date Sampled: 06/06/14 14:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Toluene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Trichloroethene	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Trichlorofluoromethane	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Vinyl Acetate	ND (0.0050)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Vinyl Chloride	ND (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Xylene O	0.0052 (0.0010)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Xylene P,M	0.0279 (0.0020)		8260B		1	06/09/14 21:43	CXF0124	CF40938
Xylenes (Total)	0.0330 (0.0020)		8260B		1	06/09/14 21:43		[CALC]
Trihalomethanes (Total)	ND (0.0036)		8260B			06/09/14 21:43		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>85 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>78 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>92 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>95 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-105
Date Sampled: 06/06/14 15:00
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-09
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 12:49	50	25	CF41003
Barium	ND (0.025)		6010B		1	ICP	06/11/14 15:15	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	ICP	06/11/14 15:15	50	25	CF40902
Chromium	ND (0.010)		6010B		1	ICP	06/11/14 15:15	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 12:49	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 2:59	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 12:49	50	25	CF41003
Silver	ND (0.005)		6010B		1	ICP	06/11/14 15:15	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-105
Date Sampled: 06/06/14 15:00
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-09
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 11:31	50	25	CF41003
Barium	ND (0.025)		6010B		1	NAR	06/13/14 2:59	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 2:59	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 2:59	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 11:31	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 13:07	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 11:31	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 2:59	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-105
Date Sampled: 06/06/14 15:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-09
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,1,1-Trichloroethane	0.0029 (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,1-Dichloroethane	0.0143 (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,1-Dichloroethene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,1-Dichloropropene	ND (0.0020)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,2-Dibromoethane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,2-Dichloroethane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,2-Dichloropropane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,3,5-Trimethylbenzene	0.0031 (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,3-Dichloropropane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1,4-Dioxane - Screen	ND (0.500)		8260B		1	06/10/14 20:21	CXF0144	CF41136
1-Chlorohexane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
2,2-Dichloropropane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
2-Butanone	ND (0.0100)		8260B		1	06/10/14 20:21	CXF0144	CF41136
2-Chlorotoluene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
2-Hexanone	ND (0.0100)		8260B		1	06/10/14 20:21	CXF0144	CF41136
4-Chlorotoluene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
4-Isopropyltoluene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Acetone	ND (0.0100)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Benzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Bromobenzene	ND (0.0020)		8260B		1	06/10/14 20:21	CXF0144	CF41136



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-105
Date Sampled: 06/06/14 15:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-09
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Bromodichloromethane	ND (0.0006)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Bromoform	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Bromomethane	ND (0.0020)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Carbon Disulfide	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Carbon Tetrachloride	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Chlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Chloroethane	ND (0.0020)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Chloroform	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Chloromethane	ND (0.0020)		8260B		1	06/10/14 20:21	CXF0144	CF41136
cis-1,2-Dichloroethene	0.0038 (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Dibromochloromethane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Dibromomethane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Dichlorodifluoromethane	ND (0.0020)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Diethyl Ether	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Di-isopropyl ether	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Ethylbenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Hexachlorobutadiene	ND (0.0006)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Hexachloroethane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Isopropylbenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Methylene Chloride	ND (0.0020)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Naphthalene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
n-Butylbenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
n-Propylbenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
sec-Butylbenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Styrene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
tert-Butylbenzene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Tetrachloroethene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-105
Date Sampled: 06/06/14 15:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-09
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Toluene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Trichloroethene	0.0016 (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Trichlorofluoromethane	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Vinyl Acetate	ND (0.0050)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Vinyl Chloride	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Xylene O	ND (0.0010)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Xylene P,M	ND (0.0020)		8260B		1	06/10/14 20:21	CXF0144	CF41136
Xylenes (Total)	ND (0.0020)		8260B		1	06/10/14 20:21		[CALC]
Trihalomethanes (Total)	ND (0.0036)		8260B			06/10/14 20:21		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>79 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>105 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>91 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-106
Date Sampled: 06/06/14 14:10
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-10
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Dissolved Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 12:55	50	25	CF41003
Barium	ND (0.025)		6010B		1	ICP	06/11/14 15:19	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	ICP	06/11/14 15:19	50	25	CF40902
Chromium	ND (0.010)		6010B		1	ICP	06/11/14 15:19	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 12:55	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	NAR	06/13/14 3:03	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 12:55	50	25	CF41003
Silver	ND (0.005)		6010B		1	ICP	06/11/14 15:19	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-106
Date Sampled: 06/06/14 14:10
Percent Solids: N/A

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-10
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A

Total Metals Aqueous

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0010)		6020A		10	NAR	06/12/14 11:37	50	25	CF41003
Barium	ND (0.025)		6010B		1	NAR	06/13/14 3:03	50	25	CF40902
Cadmium	ND (0.0025)		6010B		1	NAR	06/13/14 3:03	50	25	CF40902
Chromium	ND (0.010)		6010B		1	NAR	06/13/14 3:03	50	25	CF40902
Lead	ND (0.0100)		6020A		10	NAR	06/12/14 11:37	50	25	CF41003
Mercury	ND (0.00020)		7470A		1	BJV	06/10/14 13:10	20	40	CF40904
Selenium	ND (0.0250)		6020A		10	NAR	06/12/14 11:37	50	25	CF41003
Silver	ND (0.005)		6010B		1	NAR	06/13/14 3:03	50	25	CF40902



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-106
Date Sampled: 06/06/14 14:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-10
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,1-Dichloroethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,1-Dichloroethene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,1-Dichloropropene	ND (0.0020)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,2-Dibromoethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,2-Dichloroethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,2-Dichloropropane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,3-Dichloropropane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1,4-Dioxane - Screen	ND (0.500)		8260B		1	06/10/14 20:46	CXF0144	CF41136
1-Chlorohexane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
2,2-Dichloropropane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
2-Butanone	ND (0.0100)		8260B		1	06/10/14 20:46	CXF0144	CF41136
2-Chlorotoluene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
2-Hexanone	ND (0.0100)		8260B		1	06/10/14 20:46	CXF0144	CF41136
4-Chlorotoluene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
4-Isopropyltoluene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Acetone	ND (0.0100)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Benzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Bromobenzene	ND (0.0020)		8260B		1	06/10/14 20:46	CXF0144	CF41136



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-106
Date Sampled: 06/06/14 14:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-10
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Bromodichloromethane	ND (0.0006)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Bromoform	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Bromomethane	ND (0.0020)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Carbon Disulfide	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Carbon Tetrachloride	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Chlorobenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Chloroethane	ND (0.0020)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Chloroform	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Chloromethane	ND (0.0020)		8260B		1	06/10/14 20:46	CXF0144	CF41136
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Dibromochloromethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Dibromomethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Dichlorodifluoromethane	ND (0.0020)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Diethyl Ether	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Di-isopropyl ether	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Ethylbenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Hexachlorobutadiene	ND (0.0006)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Hexachloroethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Isopropylbenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Methylene Chloride	ND (0.0020)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Naphthalene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
n-Butylbenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
n-Propylbenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
sec-Butylbenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Styrene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
tert-Butylbenzene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Tetrachloroethene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: MW-106
Date Sampled: 06/06/14 14:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-10
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Toluene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Trichloroethene	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Trichlorofluoromethane	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Vinyl Acetate	ND (0.0050)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Vinyl Chloride	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Xylene O	ND (0.0010)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Xylene P,M	ND (0.0020)		8260B		1	06/10/14 20:46	CXF0144	CF41136
Xylenes (Total)	ND (0.0020)		8260B		1	06/10/14 20:46		[CALC]
Trihalomethanes (Total)	ND (0.0036)		8260B			06/10/14 20:46		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>105 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>81 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>92 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: Trip Blank
Date Sampled: 06/06/14 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-11
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,1-Dichloroethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,1-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,1-Dichloropropene	ND (0.0020)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,2-Dibromoethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,2-Dichloroethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,3-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	06/09/14 17:05	CXF0124	CF40938
1-Chlorohexane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
2,2-Dichloropropane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
2-Butanone	ND (0.0100)		8260B		1	06/09/14 17:05	CXF0124	CF40938
2-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
2-Hexanone	ND (0.0100)		8260B		1	06/09/14 17:05	CXF0124	CF40938
4-Chlorotoluene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
4-Isopropyltoluene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Acetone	ND (0.0100)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Benzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Bromobenzene	ND (0.0020)		8260B		1	06/09/14 17:05	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: Trip Blank
Date Sampled: 06/06/14 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-11
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Bromodichloromethane	ND (0.0006)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Bromoform	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Bromomethane	ND (0.0020)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Carbon Disulfide	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Carbon Tetrachloride	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Chlorobenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Chloroethane	ND (0.0020)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Chloroform	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Chloromethane	ND (0.0020)		8260B		1	06/09/14 17:05	CXF0124	CF40938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Dibromochloromethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Dibromomethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Diethyl Ether	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Di-isopropyl ether	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Ethylbenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Hexachlorobutadiene	ND (0.0006)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Hexachloroethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Isopropylbenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Methylene Chloride	ND (0.0020)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Naphthalene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
n-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
n-Propylbenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
sec-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Styrene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
tert-Butylbenzene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Tetrachloroethene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington
Client Sample ID: Trip Blank
Date Sampled: 06/06/14 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1406156
ESS Laboratory Sample ID: 1406156-11
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Toluene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Trichloroethene	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Trichlorofluoromethane	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Vinyl Acetate	ND (0.0050)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Vinyl Chloride	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Xylene O	ND (0.0010)		8260B		1	06/09/14 17:05	CXF0124	CF40938
Xylene P,M	ND (0.0020)		8260B		1	06/09/14 17:05	CXF0124	CF40938

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>75 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>100 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>91 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Dissolved Metals Aqueous

Batch CF40902 - 3005A

Blank

Barium	ND	0.025	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Silver	ND	0.005	mg/L							

LCS

Barium	0.246	0.025	mg/L	0.2500		99	80-120			
Cadmium	0.127	0.0025	mg/L	0.1250		102	80-120			
Chromium	0.246	0.010	mg/L	0.2500		98	80-120			
Silver	0.133	0.005	mg/L	0.1250		106	80-120			

LCS Dup

Barium	0.254	0.025	mg/L	0.2500		101	80-120	3	20	
Cadmium	0.127	0.0025	mg/L	0.1250		101	80-120	0.3	20	
Chromium	0.255	0.010	mg/L	0.2500		102	80-120	4	20	
Silver	0.137	0.005	mg/L	0.1250		109	80-120	3	20	

Batch CF40904 - 245.1/7470A

Blank

Mercury	ND	0.00020	mg/L							
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LCS

Mercury	0.00535	0.00020	mg/L	0.006000		89	80-120			
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LCS Dup

Mercury	0.00532	0.00020	mg/L	0.006000		89	80-120	0.5	20	
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Batch CF41003 - 3005A

Blank

Arsenic	ND	0.0010	mg/L							
Selenium	ND	0.0250	mg/L							

Blank

Arsenic	ND	0.0010	mg/L							
Lead	ND	0.0100	mg/L							
Selenium	ND	0.0250	mg/L							

LCS

Arsenic	0.0285	0.0010	mg/L	0.02500		114	80-120			
Lead	0.0300	0.0100	mg/L	0.02500		120	80-120			
Selenium	0.0301	0.0250	mg/L	0.02500		121	80-120			B+

LCS Dup

Arsenic	0.0268	0.0010	mg/L	0.02500		107	80-120	6	20	
Lead	0.0314	0.0100	mg/L	0.02500		126	80-120	5	20	B+
Selenium	0.0309	0.0250	mg/L	0.02500		124	80-120	3	20	B+

Total Metals Aqueous

Batch CF40902 - 3005A

Blank



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals Aqueous

Batch CF40902 - 3005A

Barium	ND	0.025	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Silver	ND	0.005	mg/L							

LCS

Barium	0.257	0.025	mg/L	0.2500		103	80-120			
Cadmium	0.127	0.0025	mg/L	0.1250		101	80-120			
Chromium	0.267	0.010	mg/L	0.2500		107	80-120			
Silver	0.135	0.005	mg/L	0.1250		108	80-120			

LCS Dup

Barium	0.249	0.025	mg/L	0.2500		100	80-120	3	20	
Cadmium	0.123	0.0025	mg/L	0.1250		98	80-120	3	20	
Chromium	0.259	0.010	mg/L	0.2500		104	80-120	3	20	
Silver	0.131	0.005	mg/L	0.1250		105	80-120	3	20	

Batch CF40904 - 245.1/7470A

Blank

Mercury	ND	0.00020	mg/L							
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LCS

Mercury	0.00535	0.00020	mg/L	0.006000		89	80-120			
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LCS Dup

Mercury	0.00532	0.00020	mg/L	0.006000		89	80-120	0.5	20	
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Batch CF41003 - 3005A

Blank

Arsenic	ND	0.0010	mg/L							
Lead	ND	0.0100	mg/L							
Selenium	ND	0.0250	mg/L							

LCS

Arsenic	0.0285	0.0010	mg/L	0.02500		114	80-120			
Lead	0.0300	0.0100	mg/L	0.02500		120	80-120			
Selenium	0.0301	0.0250	mg/L	0.02500		121	80-120			B+

LCS Dup

Arsenic	0.0268	0.0010	mg/L	0.02500		107	80-120	6	20	
Lead	0.0314	0.0100	mg/L	0.02500		126	80-120	5	20	B+
Selenium	0.0309	0.0250	mg/L	0.02500		124	80-120	3	20	B+

8260B Volatile Organic Compounds

Batch CF40938 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF40938 - 5030B

1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0250	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							
Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF40938 - 5030B

Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0251		mg/L	0.02500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0190		mg/L	0.02500		76	70-130			
Surrogate: Dibromofluoromethane	0.0251		mg/L	0.02500		100	70-130			
Surrogate: Toluene-d8	0.0226		mg/L	0.02500		91	70-130			

LCS

1,1,1,2-Tetrachloroethane	8.66		ug/L	10.00		87	70-130			
1,1,1-Trichloroethane	8.74		ug/L	10.00		87	70-130			
1,1,2,2-Tetrachloroethane	8.30		ug/L	10.00		83	70-130			
1,1,2-Trichloroethane	8.41		ug/L	10.00		84	70-130			
1,1-Dichloroethane	8.50		ug/L	10.00		85	70-130			
1,1-Dichloroethene	8.57		ug/L	10.00		86	70-130			
1,1-Dichloropropene	9.56		ug/L	10.00		96	70-130			
1,2,3-Trichlorobenzene	8.33		ug/L	10.00		83	70-130			
1,2,3-Trichloropropane	7.83		ug/L	10.00		78	70-130			
1,2,4-Trichlorobenzene	7.99		ug/L	10.00		80	70-130			
1,2,4-Trimethylbenzene	8.78		ug/L	10.00		88	70-130			
1,2-Dibromo-3-Chloropropane	7.72		ug/L	10.00		77	70-130			
1,2-Dibromoethane	8.58		ug/L	10.00		86	70-130			
1,2-Dichlorobenzene	8.73		ug/L	10.00		87	70-130			
1,2-Dichloroethane	8.59		ug/L	10.00		86	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF40938 - 5030B

1,2-Dichloropropane	8.38		ug/L	10.00		84	70-130			
1,3,5-Trimethylbenzene	9.43		ug/L	10.00		94	70-130			
1,3-Dichlorobenzene	8.64		ug/L	10.00		86	70-130			
1,3-Dichloropropane	8.60		ug/L	10.00		86	70-130			
1,4-Dichlorobenzene	8.46		ug/L	10.00		85	70-130			
1,4-Dioxane - Screen	145		ug/L	200.0		73	0-332			
1-Chlorohexane	8.33		ug/L	10.00		83	70-130			
2,2-Dichloropropane	8.27		ug/L	10.00		83	70-130			
2-Butanone	43.0		ug/L	50.00		86	70-130			
2-Chlorotoluene	9.20		ug/L	10.00		92	70-130			
2-Hexanone	43.4		ug/L	50.00		87	70-130			
4-Chlorotoluene	9.24		ug/L	10.00		92	70-130			
4-Isopropyltoluene	8.56		ug/L	10.00		86	70-130			
4-Methyl-2-Pentanone	42.6		ug/L	50.00		85	70-130			
Acetone	69.6		ug/L	50.00		139	70-130			B+
Benzene	8.81		ug/L	10.00		88	70-130			
Bromobenzene	8.64		ug/L	10.00		86	70-130			
Bromochloromethane	8.97		ug/L	10.00		90	70-130			
Bromodichloromethane	8.78		ug/L	10.00		88	70-130			
Bromoform	8.65		ug/L	10.00		86	70-130			
Bromomethane	10.4		ug/L	10.00		104	70-130			
Carbon Disulfide	8.37		ug/L	10.00		84	70-130			
Carbon Tetrachloride	8.89		ug/L	10.00		89	70-130			
Chlorobenzene	8.69		ug/L	10.00		87	70-130			
Chloroethane	8.16		ug/L	10.00		82	70-130			
Chloroform	8.96		ug/L	10.00		90	70-130			
Chloromethane	8.71		ug/L	10.00		87	70-130			
cis-1,2-Dichloroethene	9.08		ug/L	10.00		91	70-130			
cis-1,3-Dichloropropene	8.56		ug/L	10.00		86	70-130			
Dibromochloromethane	8.92		ug/L	10.00		89	70-130			
Dibromomethane	8.63		ug/L	10.00		86	70-130			
Dichlorodifluoromethane	8.10		ug/L	10.00		81	70-130			
Diethyl Ether	8.50		ug/L	10.00		85	70-130			
Di-isopropyl ether	8.37		ug/L	10.00		84	70-130			
Ethyl tertiary-butyl ether	8.09		ug/L	10.00		81	70-130			
Ethylbenzene	8.75		ug/L	10.00		88	70-130			
Hexachlorobutadiene	7.97		ug/L	10.00		80	70-130			
Hexachloroethane	7.90		ug/L	10.00		79	70-130			
Isopropylbenzene	9.04		ug/L	10.00		90	70-130			
Methyl tert-Butyl Ether	8.15		ug/L	10.00		82	70-130			
Methylene Chloride	8.65		ug/L	10.00		86	70-130			
Naphthalene	7.55		ug/L	10.00		76	70-130			
n-Butylbenzene	8.26		ug/L	10.00		83	70-130			
n-Propylbenzene	9.03		ug/L	10.00		90	70-130			
sec-Butylbenzene	9.39		ug/L	10.00		94	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF40938 - 5030B

Styrene	8.08		ug/L	10.00		81	70-130			
tert-Butylbenzene	9.01		ug/L	10.00		90	70-130			
Tertiary-amyl methyl ether	7.67		ug/L	10.00		77	70-130			
Tetrachloroethene	8.39		ug/L	10.00		84	70-130			
Tetrahydrofuran	8.41		ug/L	10.00		84	70-130			
Toluene	9.31		ug/L	10.00		93	70-130			
trans-1,2-Dichloroethene	8.76		ug/L	10.00		88	70-130			
trans-1,3-Dichloropropene	7.99		ug/L	10.00		80	70-130			
Trichloroethene	8.44		ug/L	10.00		84	70-130			
Trichlorofluoromethane	8.09		ug/L	10.00		81	70-130			
Vinyl Acetate	9.14		ug/L	10.00		91	70-130			
Vinyl Chloride	9.00		ug/L	10.00		90	70-130			
Xylene O	9.61		ug/L	10.00		96	70-130			
Xylene P,M	18.6		ug/L	20.00		93	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0214		mg/L	0.02500		86	70-130			
Surrogate: 4-Bromofluorobenzene	0.0198		mg/L	0.02500		79	70-130			
Surrogate: Dibromofluoromethane	0.0229		mg/L	0.02500		92	70-130			
Surrogate: Toluene-d8	0.0224		mg/L	0.02500		90	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	9.39		ug/L	10.00		94	70-130	8	25	
1,1,1-Trichloroethane	9.26		ug/L	10.00		93	70-130	6	25	
1,1,2,2-Tetrachloroethane	8.93		ug/L	10.00		89	70-130	7	25	
1,1,2-Trichloroethane	9.16		ug/L	10.00		92	70-130	9	25	
1,1-Dichloroethane	8.95		ug/L	10.00		90	70-130	5	25	
1,1-Dichloroethene	8.94		ug/L	10.00		89	70-130	4	25	
1,1-Dichloropropene	9.97		ug/L	10.00		100	70-130	4	25	
1,2,3-Trichlorobenzene	9.28		ug/L	10.00		93	70-130	11	25	
1,2,3-Trichloropropane	8.71		ug/L	10.00		87	70-130	11	25	
1,2,4-Trichlorobenzene	8.78		ug/L	10.00		88	70-130	9	25	
1,2,4-Trimethylbenzene	9.46		ug/L	10.00		95	70-130	7	25	
1,2-Dibromo-3-Chloropropane	8.50		ug/L	10.00		85	70-130	10	25	
1,2-Dibromoethane	9.32		ug/L	10.00		93	70-130	8	25	
1,2-Dichlorobenzene	9.27		ug/L	10.00		93	70-130	6	25	
1,2-Dichloroethane	9.45		ug/L	10.00		94	70-130	10	25	
1,2-Dichloropropane	8.98		ug/L	10.00		90	70-130	7	25	
1,3,5-Trimethylbenzene	10.1		ug/L	10.00		101	70-130	7	25	
1,3-Dichlorobenzene	9.27		ug/L	10.00		93	70-130	7	25	
1,3-Dichloropropane	9.53		ug/L	10.00		95	70-130	10	25	
1,4-Dichlorobenzene	9.13		ug/L	10.00		91	70-130	8	25	
1,4-Dioxane - Screen	183		ug/L	200.0		92	0-332	23	200	
1-Chlorohexane	8.97		ug/L	10.00		90	70-130	7	25	
2,2-Dichloropropane	8.80		ug/L	10.00		88	70-130	6	25	
2-Butanone	47.9		ug/L	50.00		96	70-130	11	25	
2-Chlorotoluene	9.85		ug/L	10.00		98	70-130	7	25	
2-Hexanone	52.1		ug/L	50.00		104	70-130	18	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF40938 - 5030B

4-Chlorotoluene	9.79		ug/L	10.00		98	70-130	6	25	
4-Isopropyltoluene	9.04		ug/L	10.00		90	70-130	5	25	
4-Methyl-2-Pentanone	48.7		ug/L	50.00		97	70-130	13	25	
Acetone	79.4		ug/L	50.00		159	70-130	13	25	B+
Benzene	9.29		ug/L	10.00		93	70-130	5	25	
Bromobenzene	9.25		ug/L	10.00		92	70-130	7	25	
Bromochloromethane	9.44		ug/L	10.00		94	70-130	5	25	
Bromodichloromethane	9.28		ug/L	10.00		93	70-130	6	25	
Bromoform	9.35		ug/L	10.00		94	70-130	8	25	
Bromomethane	11.0		ug/L	10.00		110	70-130	5	25	
Carbon Disulfide	8.71		ug/L	10.00		87	70-130	4	25	
Carbon Tetrachloride	9.13		ug/L	10.00		91	70-130	3	25	
Chlorobenzene	9.56		ug/L	10.00		96	70-130	10	25	
Chloroethane	6.06		ug/L	10.00		61	70-130	30	25	B-, D+
Chloroform	9.49		ug/L	10.00		95	70-130	6	25	
Chloromethane	9.49		ug/L	10.00		95	70-130	9	25	
cis-1,2-Dichloroethene	9.69		ug/L	10.00		97	70-130	6	25	
cis-1,3-Dichloropropene	9.26		ug/L	10.00		93	70-130	8	25	
Dibromochloromethane	9.77		ug/L	10.00		98	70-130	9	25	
Dibromomethane	9.49		ug/L	10.00		95	70-130	9	25	
Dichlorodifluoromethane	8.33		ug/L	10.00		83	70-130	3	25	
Diethyl Ether	9.52		ug/L	10.00		95	70-130	11	25	
Di-isopropyl ether	9.14		ug/L	10.00		91	70-130	9	25	
Ethyl tertiary-butyl ether	8.64		ug/L	10.00		86	70-130	7	25	
Ethylbenzene	9.34		ug/L	10.00		93	70-130	7	25	
Hexachlorobutadiene	8.65		ug/L	10.00		86	70-130	8	25	
Hexachloroethane	8.75		ug/L	10.00		88	70-130	10	25	
Isopropylbenzene	9.48		ug/L	10.00		95	70-130	5	25	
Methyl tert-Butyl Ether	9.11		ug/L	10.00		91	70-130	11	25	
Methylene Chloride	9.25		ug/L	10.00		92	70-130	7	25	
Naphthalene	9.08		ug/L	10.00		91	70-130	18	25	
n-Butylbenzene	8.93		ug/L	10.00		89	70-130	8	25	
n-Propylbenzene	9.57		ug/L	10.00		96	70-130	6	25	
sec-Butylbenzene	9.92		ug/L	10.00		99	70-130	5	25	
Styrene	8.75		ug/L	10.00		88	70-130	8	25	
tert-Butylbenzene	9.54		ug/L	10.00		95	70-130	6	25	
Tertiary-amyl methyl ether	7.94		ug/L	10.00		79	70-130	3	25	
Tetrachloroethene	9.09		ug/L	10.00		91	70-130	8	25	
Tetrahydrofuran	9.55		ug/L	10.00		96	70-130	13	25	
Toluene	9.84		ug/L	10.00		98	70-130	6	25	
trans-1,2-Dichloroethene	9.35		ug/L	10.00		94	70-130	7	25	
trans-1,3-Dichloropropene	8.44		ug/L	10.00		84	70-130	5	25	
Trichloroethene	9.14		ug/L	10.00		91	70-130	8	25	
Trichlorofluoromethane	8.32		ug/L	10.00		83	70-130	3	25	
Vinyl Acetate	9.86		ug/L	10.00		99	70-130	8	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF40938 - 5030B

Vinyl Chloride	9.44		ug/L	10.00		94	70-130	5	25	
Xylene O	10.2		ug/L	10.00		102	70-130	6	25	
Xylene P,M	20.0		ug/L	20.00		100	70-130	7	25	
Surrogate: 1,2-Dichloroethane-d4	0.0222		mg/L	0.02500		89	70-130			
Surrogate: 4-Bromofluorobenzene	0.0206		mg/L	0.02500		82	70-130			
Surrogate: Dibromofluoromethane	0.0234		mg/L	0.02500		94	70-130			
Surrogate: Toluene-d8	0.0231		mg/L	0.02500		92	70-130			

Batch CF41136 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0250	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF41136 - 5030B

Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							
Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0256		mg/L	0.02500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0190		mg/L	0.02500		76	70-130			
Surrogate: Dibromofluoromethane	0.0255		mg/L	0.02500		102	70-130			
Surrogate: Toluene-d8	0.0226		mg/L	0.02500		90	70-130			

LCS

1,1,1,2-Tetrachloroethane	9.28		ug/L	10.00		93	70-130			
1,1,1-Trichloroethane	9.61		ug/L	10.00		96	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF41136 - 5030B

1,1,2,2-Tetrachloroethane	8.97		ug/L	10.00		90	70-130			
1,1,2-Trichloroethane	9.29		ug/L	10.00		93	70-130			
1,1-Dichloroethane	9.28		ug/L	10.00		93	70-130			
1,1-Dichloroethene	9.17		ug/L	10.00		92	70-130			
1,1-Dichloropropene	10.4		ug/L	10.00		104	70-130			
1,2,3-Trichlorobenzene	9.24		ug/L	10.00		92	70-130			
1,2,3-Trichloropropane	8.79		ug/L	10.00		88	70-130			
1,2,4-Trichlorobenzene	8.89		ug/L	10.00		89	70-130			
1,2,4-Trimethylbenzene	9.58		ug/L	10.00		96	70-130			
1,2-Dibromo-3-Chloropropane	8.45		ug/L	10.00		84	70-130			
1,2-Dibromoethane	9.24		ug/L	10.00		92	70-130			
1,2-Dichlorobenzene	9.53		ug/L	10.00		95	70-130			
1,2-Dichloroethane	9.57		ug/L	10.00		96	70-130			
1,2-Dichloropropane	9.13		ug/L	10.00		91	70-130			
1,3,5-Trimethylbenzene	10.3		ug/L	10.00		103	70-130			
1,3-Dichlorobenzene	9.70		ug/L	10.00		97	70-130			
1,3-Dichloropropane	9.27		ug/L	10.00		93	70-130			
1,4-Dichlorobenzene	9.12		ug/L	10.00		91	70-130			
1,4-Dioxane - Screen	158		ug/L	200.0		79	0-332			
1-Chlorohexane	8.72		ug/L	10.00		87	70-130			
2,2-Dichloropropane	8.62		ug/L	10.00		86	70-130			
2-Butanone	47.4		ug/L	50.00		95	70-130			
2-Chlorotoluene	10.4		ug/L	10.00		104	70-130			
2-Hexanone	47.6		ug/L	50.00		95	70-130			
4-Chlorotoluene	10.0		ug/L	10.00		100	70-130			
4-Isopropyltoluene	9.25		ug/L	10.00		92	70-130			
4-Methyl-2-Pentanone	47.6		ug/L	50.00		95	70-130			
Acetone	47.4		ug/L	50.00		95	70-130			
Benzene	9.56		ug/L	10.00		96	70-130			
Bromobenzene	9.66		ug/L	10.00		97	70-130			
Bromochloromethane	9.66		ug/L	10.00		97	70-130			
Bromodichloromethane	9.54		ug/L	10.00		95	70-130			
Bromoform	9.12		ug/L	10.00		91	70-130			
Bromomethane	11.3		ug/L	10.00		113	70-130			
Carbon Disulfide	8.93		ug/L	10.00		89	70-130			
Carbon Tetrachloride	9.63		ug/L	10.00		96	70-130			
Chlorobenzene	9.41		ug/L	10.00		94	70-130			
Chloroethane	8.92		ug/L	10.00		89	70-130			
Chloroform	9.71		ug/L	10.00		97	70-130			
Chloromethane	10.1		ug/L	10.00		101	70-130			
cis-1,2-Dichloroethene	9.88		ug/L	10.00		99	70-130			
cis-1,3-Dichloropropene	9.21		ug/L	10.00		92	70-130			
Dibromochloromethane	9.44		ug/L	10.00		94	70-130			
Dibromomethane	9.53		ug/L	10.00		95	70-130			
Dichlorodifluoromethane	8.52		ug/L	10.00		85	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF41136 - 5030B

Diethyl Ether	9.36		ug/L	10.00		94	70-130			
Di-isopropyl ether	9.45		ug/L	10.00		94	70-130			
Ethyl tertiary-butyl ether	9.42		ug/L	10.00		94	70-130			
Ethylbenzene	9.51		ug/L	10.00		95	70-130			
Hexachlorobutadiene	8.68		ug/L	10.00		87	70-130			
Hexachloroethane	8.21		ug/L	10.00		82	70-130			
Isopropylbenzene	9.98		ug/L	10.00		100	70-130			
Methyl tert-Butyl Ether	9.16		ug/L	10.00		92	70-130			
Methylene Chloride	9.23		ug/L	10.00		92	70-130			
Naphthalene	8.76		ug/L	10.00		88	70-130			
n-Butylbenzene	9.05		ug/L	10.00		90	70-130			
n-Propylbenzene	9.92		ug/L	10.00		99	70-130			
sec-Butylbenzene	10.1		ug/L	10.00		101	70-130			
Styrene	8.70		ug/L	10.00		87	70-130			
tert-Butylbenzene	9.91		ug/L	10.00		99	70-130			
Tertiary-amyl methyl ether	9.12		ug/L	10.00		91	70-130			
Tetrachloroethene	9.11		ug/L	10.00		91	70-130			
Tetrahydrofuran	8.74		ug/L	10.00		87	70-130			
Toluene	10.2		ug/L	10.00		102	70-130			
trans-1,2-Dichloroethene	9.57		ug/L	10.00		96	70-130			
trans-1,3-Dichloropropene	8.46		ug/L	10.00		85	70-130			
Trichloroethene	9.34		ug/L	10.00		93	70-130			
Trichlorofluoromethane	8.84		ug/L	10.00		88	70-130			
Vinyl Acetate	9.31		ug/L	10.00		93	70-130			
Vinyl Chloride	10.2		ug/L	10.00		102	70-130			
Xylene O	10.3		ug/L	10.00		103	70-130			
Xylene P,M	20.2		ug/L	20.00		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0227		mg/L	0.02500		91	70-130			
Surrogate: 4-Bromofluorobenzene	0.0198		mg/L	0.02500		79	70-130			
Surrogate: Dibromofluoromethane	0.0242		mg/L	0.02500		97	70-130			
Surrogate: Toluene-d8	0.0225		mg/L	0.02500		90	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	8.64		ug/L	10.00		86	70-130	7	25	
1,1,1-Trichloroethane	8.67		ug/L	10.00		87	70-130	10	25	
1,1,2,2-Tetrachloroethane	7.90		ug/L	10.00		79	70-130	13	25	
1,1,2-Trichloroethane	8.47		ug/L	10.00		85	70-130	9	25	
1,1-Dichloroethane	8.54		ug/L	10.00		85	70-130	8	25	
1,1-Dichloroethene	8.59		ug/L	10.00		86	70-130	7	25	
1,1-Dichloropropene	9.50		ug/L	10.00		95	70-130	9	25	
1,2,3-Trichlorobenzene	8.53		ug/L	10.00		85	70-130	8	25	
1,2,3-Trichloropropane	7.73		ug/L	10.00		77	70-130	13	25	
1,2,4-Trichlorobenzene	8.05		ug/L	10.00		80	70-130	10	25	
1,2,4-Trimethylbenzene	8.61		ug/L	10.00		86	70-130	11	25	
1,2-Dibromo-3-Chloropropane	7.85		ug/L	10.00		78	70-130	7	25	
1,2-Dibromoethane	8.44		ug/L	10.00		84	70-130	9	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF41136 - 5030B

1,2-Dichlorobenzene	8.47		ug/L	10.00		85	70-130	12	25	
1,2-Dichloroethane	8.73		ug/L	10.00		87	70-130	9	25	
1,2-Dichloropropane	8.41		ug/L	10.00		84	70-130	8	25	
1,3,5-Trimethylbenzene	9.31		ug/L	10.00		93	70-130	10	25	
1,3-Dichlorobenzene	8.64		ug/L	10.00		86	70-130	12	25	
1,3-Dichloropropane	8.63		ug/L	10.00		86	70-130	7	25	
1,4-Dichlorobenzene	7.95		ug/L	10.00		80	70-130	14	25	
1,4-Dioxane - Screen	147		ug/L	200.0		74	0-332	7	200	
1-Chlorohexane	8.40		ug/L	10.00		84	70-130	4	25	
2,2-Dichloropropane	7.85		ug/L	10.00		78	70-130	9	25	
2-Butanone	43.5		ug/L	50.00		87	70-130	8	25	
2-Chlorotoluene	9.30		ug/L	10.00		93	70-130	11	25	
2-Hexanone	44.3		ug/L	50.00		89	70-130	7	25	
4-Chlorotoluene	8.88		ug/L	10.00		89	70-130	12	25	
4-Isopropyltoluene	8.23		ug/L	10.00		82	70-130	12	25	
4-Methyl-2-Pentanone	43.4		ug/L	50.00		87	70-130	9	25	
Acetone	43.2		ug/L	50.00		86	70-130	9	25	
Benzene	8.84		ug/L	10.00		88	70-130	8	25	
Bromobenzene	8.42		ug/L	10.00		84	70-130	14	25	
Bromochloromethane	8.74		ug/L	10.00		87	70-130	10	25	
Bromodichloromethane	8.69		ug/L	10.00		87	70-130	9	25	
Bromoform	8.40		ug/L	10.00		84	70-130	8	25	
Bromomethane	10.3		ug/L	10.00		103	70-130	9	25	
Carbon Disulfide	8.17		ug/L	10.00		82	70-130	9	25	
Carbon Tetrachloride	8.61		ug/L	10.00		86	70-130	11	25	
Chlorobenzene	8.66		ug/L	10.00		87	70-130	8	25	
Chloroethane	7.99		ug/L	10.00		80	70-130	11	25	
Chloroform	8.85		ug/L	10.00		88	70-130	9	25	
Chloromethane	9.01		ug/L	10.00		90	70-130	11	25	
cis-1,2-Dichloroethene	9.16		ug/L	10.00		92	70-130	8	25	
cis-1,3-Dichloropropene	8.44		ug/L	10.00		84	70-130	9	25	
Dibromochloromethane	8.75		ug/L	10.00		88	70-130	8	25	
Dibromomethane	8.81		ug/L	10.00		88	70-130	8	25	
Dichlorodifluoromethane	7.87		ug/L	10.00		79	70-130	8	25	
Diethyl Ether	8.67		ug/L	10.00		87	70-130	8	25	
Di-isopropyl ether	8.71		ug/L	10.00		87	70-130	8	25	
Ethyl tertiary-butyl ether	8.65		ug/L	10.00		86	70-130	9	25	
Ethylbenzene	8.65		ug/L	10.00		86	70-130	9	25	
Hexachlorobutadiene	7.87		ug/L	10.00		79	70-130	10	25	
Hexachloroethane	7.48		ug/L	10.00		75	70-130	9	25	
Isopropylbenzene	8.90		ug/L	10.00		89	70-130	11	25	
Methyl tert-Butyl Ether	8.47		ug/L	10.00		85	70-130	8	25	
Methylene Chloride	8.54		ug/L	10.00		85	70-130	8	25	
Naphthalene	8.21		ug/L	10.00		82	70-130	6	25	
n-Butylbenzene	8.10		ug/L	10.00		81	70-130	11	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CF41136 - 5030B

n-Propylbenzene	8.79		ug/L	10.00		88	70-130	12	25	
sec-Butylbenzene	9.09		ug/L	10.00		91	70-130	10	25	
Styrene	8.01		ug/L	10.00		80	70-130	8	25	
tert-Butylbenzene	8.85		ug/L	10.00		88	70-130	11	25	
Tertiary-amyl methyl ether	8.38		ug/L	10.00		84	70-130	8	25	
Tetrachloroethene	8.34		ug/L	10.00		83	70-130	9	25	
Tetrahydrofuran	8.20		ug/L	10.00		82	70-130	6	25	
Toluene	9.33		ug/L	10.00		93	70-130	9	25	
trans-1,2-Dichloroethene	8.96		ug/L	10.00		90	70-130	7	25	
trans-1,3-Dichloropropene	7.94		ug/L	10.00		79	70-130	6	25	
Trichloroethene	8.60		ug/L	10.00		86	70-130	8	25	
Trichlorofluoromethane	8.00		ug/L	10.00		80	70-130	10	25	
Vinyl Acetate	8.78		ug/L	10.00		88	70-130	6	25	
Vinyl Chloride	9.42		ug/L	10.00		94	70-130	8	25	
Xylene O	9.30		ug/L	10.00		93	70-130	11	25	
Xylene P,M	18.4		ug/L	20.00		92	70-130	9	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0223</i>		mg/L	<i>0.02500</i>		<i>89</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0202</i>		mg/L	<i>0.02500</i>		<i>81</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0238</i>		mg/L	<i>0.02500</i>		<i>95</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0226</i>		mg/L	<i>0.02500</i>		<i>90</i>	<i>70-130</i>			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

Notes and Definitions

- U Analyte included in the analysis, but not detected
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- B+ Blank Spike recovery is above upper control limit (B+).
- B- Blank Spike recovery is below lower control limit (B-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Barrington

ESS Laboratory Work Order: 1406156

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002

<http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_Opra/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.epsc.gov/cgi-bin/labapplist.aspx>

Sample and Cooler Receipt Checklist

Client: Resource Controls
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 14060156
Date Project Due: 6/13/14
Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|--|-------------------------------|---|---|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> No |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input type="checkbox"/> No |
| <u>Cooler Temp: 3.7</u> | | 16. Are ESS labels on correct containers? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <u>Iced With: Ice</u> | | 17. Were samples received intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: _____ | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: _____ | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: _____ | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: _____ | |

18. Was there need to call project manager to discuss status? If yes, please explain. *W36kelly*
11-2 time on Dissolved Metals sample doesn't match time on chain
11-2 VOA vials do not match chain time either

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	250 ml Plastic	1	HNO3
1	Yes	250 ml Plastic	1	NP
2	Yes	250 ml Plastic	1	HNO3
2	Yes	250 ml Plastic	1	NP
2	Yes	40 ml - VOA	3	HCL
3	Yes	250 ml Plastic	1	HNO3
3	Yes	250 ml Plastic	1	NP
3	Yes	40 ml - VOA	3	HCL
4	Yes	250 ml Plastic	1	HNO3
4	Yes	250 ml Plastic	1	NP
4	Yes	40 ml - VOA	3	HCL
5	Yes	250 ml Plastic	1	HNO3
5	Yes	250 ml Plastic	1	NP
6	Yes	250 ml Plastic	1	HNO3
6	Yes	250 ml Plastic	1	NP
7	Yes	250 ml Plastic	1	HNO3
7	Yes	250 ml Plastic	1	NP
8	Yes	250 ml Plastic	1	HNO3
8	Yes	250 ml Plastic	1	NP
8	Yes	40 ml - VOA	3	HCL
9	Yes	250 ml Plastic	1	HNO3
9	Yes	250 ml Plastic	1	NP
9	Yes	40 ml - VOA	3	HCL
10	Yes	250 ml Plastic	1	HNO3
10	Yes	250 ml Plastic	1	NP

Sample and Cooler Receipt Checklist

Client: Resource Controls

ESS Project ID: 14060156

10 Yes
11 Yes

40 ml - VOA 3
40 ml - VOA 1

HCL
HCL

Completed By: Mario B

Date/Time: 6/16/14 1105

Reviewed By: M. Mend

Date/Time: 6/16/14 1620

ESS Laboratory
 Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time: Standard Other: S-Drug
 If faster than 5 days, prior approval by laboratory is required #
 State where samples were collected from:
 MA (RI) CT NH NJ NY ME Other
 Is this project for any of the following:
 MA-MCP Navy USACE Other

Reporting Limits: GA
 Electronic Deliverable: Yes No
 Format: Excel Access PDF Other
 ESS LAB PROJECT ID: 14060150

Co. Name: Reserve Controls
 Contact Person: Danielle Gotsinger
 City: Pawtucket State: RI Zip: 02886
 Address: 474 Broadway PO#: 731A Task 9
 Project Name (20 Char. or less): Bay Spring Realty Co.
 Telephone #: (401) 786-6800 Fax #:
 Email Address: egotsinger@reservecontrols.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers		Write Required Analysis	
								Type of Containers	Pres Code	Total metals	dissolved metals
1	6/6/14	1330	X	X	GW	MW-1	H1	2	2	X	X
2		0630	X	X		MW-2	H1	5	5	X	X
3		1030	X	X		MW-3	H1	5	5	X	X
4		1115	X	X		MW-5	H1	5	5	X	X
5		1230	X	X		MW-101	H1	2	2	X	X
6		1230	X	X		MW-102	H1	2	2	X	X
7		1300	X	X		MW-103	H1	2	2	X	X
8		1405	X	X		MW-104	H1	5	5	X	X
9		1500	X	X		MW-105	H1	5	5	X	X
10		1410	X	X		MW-106	H1	5	5	X	X

Chiller Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present: Yes No Internal Use Only: Yes No
 Seals Intact: Yes No NA: Pickup
 Cooler Temp: 3.7 ice M [] Technicians _____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____
 Sampled by: Emily Gardiner + Ben Caswell
 Comments: added Trip 2/14/14 1546

Relinquished by: (Signature) <u>[Signature]</u>	Date/Time <u>6/6/14 1507</u>	Received by: (Signature) <u>[Signature]</u>	Date/Time <u>6/6/14 1540</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date/Time <u>6/6/14 1507</u>	Received by: (Signature) <u>[Signature]</u>	Date/Time <u>6/6/14 1553</u>



CERTIFICATE OF ANALYSIS

Mark House
Resource Controls
474 Broadway
Pawtucket, RI 02860-1377

RE: Bay Spring Realty (7131A)
ESS Laboratory Work Order Number: 1410254

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 12:39 pm, Oct 17, 2014

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

SAMPLE RECEIPT

The following samples were received on October 09, 2014 for the analyses specified on the enclosed Chain of Custody Record.

The cooler temperature was not within the acceptance limit of <6°C, however, samples were delivered on ice.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
1410254-01	MW-104	Ground Water	6010C, 7010, 7470A
1410254-02	MW-101	Ground Water	6010C, 7010, 7470A
1410254-03	MW-3	Ground Water	6010C, 7010, 7470A, 8260B
1410254-04	MW-105	Ground Water	8260B
1410254-05	MW-5	Ground Water	8260B
1410254-06	MW-106	Ground Water	6010C, 7010, 7470A



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

PROJECT NARRATIVE

8260B Volatile Organic Compounds

CXJ0136-CCV1 [Continuing Calibration recovery is below lower control limit \(C-\).](#)

Bromomethane (61% @ 70-130%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015D - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP and Graphite Furnace Digestion
3020A - Aqueous ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-104
Date Sampled: 10/09/14 10:02
Percent Solids: N/A

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-01
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A/200.7

Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0025)		7010		1	KJK	10/15/14 23:54	50	25	CJ41428
Barium	ND (0.025)		6010C		1	KJK	10/14/14 17:42	50	25	CJ41428
Cadmium	ND (0.0025)		6010C		1	KJK	10/14/14 17:42	50	25	CJ41428
Chromium	ND (0.010)		6010C		1	KJK	10/14/14 17:42	50	25	CJ41428
Lead	ND (0.010)		6010C		1	KJK	10/14/14 17:42	50	25	CJ41428
Mercury	ND (0.00020)		7470A		1	BJV	10/10/14 15:13	20	40	CJ41001
Selenium	ND (0.025)		6010C		1	KJK	10/14/14 17:42	50	25	CJ41428
Silver	ND (0.005)		6010C		1	KJK	10/14/14 17:42	50	25	CJ41428



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-101
Date Sampled: 10/09/14 10:25
Percent Solids: N/A

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-02
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A/200.7

Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0342 (0.0125)		7010		5	KJK	10/16/14 0:05	50	25	CJ41428
Barium	0.026 (0.025)		6010C		1	KJK	10/14/14 17:46	50	25	CJ41428
Cadmium	ND (0.0025)		6010C		1	KJK	10/14/14 17:46	50	25	CJ41428
Chromium	ND (0.010)		6010C		1	KJK	10/14/14 17:46	50	25	CJ41428
Lead	ND (0.010)		6010C		1	KJK	10/14/14 17:46	50	25	CJ41428
Mercury	ND (0.00020)		7470A		1	BJV	10/10/14 15:15	20	40	CJ41001
Selenium	ND (0.025)		6010C		1	KJK	10/14/14 17:46	50	25	CJ41428
Silver	ND (0.005)		6010C		1	KJK	10/14/14 17:46	50	25	CJ41428



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-3
Date Sampled: 10/09/14 10:38
Percent Solids: N/A

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-03
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A/200.7

Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	0.0052 (0.0025)		7010		1	KJK	10/16/14 0:23	100	50	CJ41428
Barium	0.028 (0.025)		6010C		1	KJK	10/14/14 17:50	100	50	CJ41428
Cadmium	ND (0.0025)		6010C		1	KJK	10/14/14 17:50	100	50	CJ41428
Chromium	ND (0.010)		6010C		1	KJK	10/14/14 17:50	100	50	CJ41428
Lead	ND (0.010)		6010C		1	KJK	10/14/14 17:50	100	50	CJ41428
Mercury	ND (0.00020)		7470A		1	BJV	10/10/14 15:17	20	40	CJ41001
Selenium	ND (0.025)		6010C		1	KJK	10/14/14 17:50	100	50	CJ41428
Silver	ND (0.005)		6010C		1	KJK	10/14/14 17:50	100	50	CJ41428



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-3
Date Sampled: 10/09/14 10:38
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,1,1-Trichloroethane	0.0021 (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,1-Dichloroethane	0.0018 (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,1-Dichloroethene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,1-Dichloropropene	ND (0.0020)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,2-Dibromoethane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,2-Dichloroethane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,2-Dichloropropane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,3-Dichloropropane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1,4-Dioxane - Screen	ND (0.500)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
1-Chlorohexane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
2,2-Dichloropropane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
2-Butanone	ND (0.0100)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
2-Chlorotoluene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
2-Hexanone	ND (0.0100)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
4-Chlorotoluene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
4-Isopropyltoluene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Acetone	ND (0.0100)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Benzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Bromobenzene	ND (0.0020)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
 Client Project ID: Bay Spring Realty
 Client Sample ID: MW-3
 Date Sampled: 10/09/14 10:38
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1410254
 ESS Laboratory Sample ID: 1410254-03
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Bromodichloromethane	ND (0.0006)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Bromoform	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Bromomethane	ND (0.0020)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Carbon Disulfide	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Carbon Tetrachloride	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Chlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Chloroethane	ND (0.0020)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Chloroform	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Chloromethane	ND (0.0020)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Dibromochloromethane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Dibromomethane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Dichlorodifluoromethane	ND (0.0020)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Diethyl Ether	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Di-isopropyl ether	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Ethylbenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Hexachlorobutadiene	ND (0.0006)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Hexachloroethane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Isopropylbenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Methylene Chloride	ND (0.0020)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Naphthalene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
n-Butylbenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
n-Propylbenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
sec-Butylbenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Styrene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
tert-Butylbenzene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Tetrachloroethene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-3
Date Sampled: 10/09/14 10:38
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Toluene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Trichloroethene	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Trichlorofluoromethane	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Vinyl Acetate	ND (0.0050)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Vinyl Chloride	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Xylene O	ND (0.0010)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Xylene P,M	ND (0.0020)		8260B		1	10/09/14 19:07	CXJ0136	CJ40941
Xylenes (Total)	ND (0.0020)		8260B		1	10/09/14 19:07		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			10/09/14 19:07		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>87 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>88 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>90 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>82 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-105
Date Sampled: 10/09/14 11:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,1,1-Trichloroethane	0.0333 (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,1-Dichloroethane	0.0261 (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,1-Dichloroethene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,1-Dichloropropene	ND (0.0020)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,2-Dibromoethane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,2-Dichloroethane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,2-Dichloropropane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,3-Dichloropropane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1,4-Dioxane - Screen	ND (0.500)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
1-Chlorohexane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
2,2-Dichloropropane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
2-Butanone	ND (0.0100)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
2-Chlorotoluene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
2-Hexanone	ND (0.0100)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
4-Chlorotoluene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
4-Isopropyltoluene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Acetone	ND (0.0100)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Benzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Bromobenzene	ND (0.0020)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-105
Date Sampled: 10/09/14 11:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Bromodichloromethane	ND (0.0006)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Bromoform	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Bromomethane	ND (0.0020)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Carbon Disulfide	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Carbon Tetrachloride	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Chlorobenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Chloroethane	ND (0.0020)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Chloroform	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Chloromethane	ND (0.0020)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
cis-1,2-Dichloroethene	0.0010 (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Dibromochloromethane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Dibromomethane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Dichlorodifluoromethane	ND (0.0020)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Diethyl Ether	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Di-isopropyl ether	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Ethylbenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Hexachlorobutadiene	ND (0.0006)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Hexachloroethane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Isopropylbenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Methylene Chloride	ND (0.0020)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Naphthalene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
n-Butylbenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
n-Propylbenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
sec-Butylbenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Styrene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
tert-Butylbenzene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Tetrachloroethene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-105
Date Sampled: 10/09/14 11:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Toluene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Trichloroethene	0.0026 (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Trichlorofluoromethane	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Vinyl Acetate	ND (0.0050)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Vinyl Chloride	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Xylene O	ND (0.0010)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Xylene P,M	ND (0.0020)		8260B		1	10/09/14 19:33	CXJ0136	CJ40941
Xylenes (Total)	ND (0.0020)		8260B		1	10/09/14 19:33		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			10/09/14 19:33		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>85 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>80 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>88 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>81 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-5
Date Sampled: 10/09/14 11:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,1-Dichloroethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,1-Dichloroethene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,1-Dichloropropene	ND (0.0020)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,2,4-Trimethylbenzene	0.0011 (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,2-Dibromoethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,2-Dichloroethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,2-Dichloropropane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,3,5-Trimethylbenzene	0.0084 (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,3-Dichloropropane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1,4-Dioxane - Screen	ND (0.500)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
1-Chlorohexane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
2,2-Dichloropropane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
2-Butanone	ND (0.0100)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
2-Chlorotoluene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
2-Hexanone	ND (0.0100)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
4-Chlorotoluene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
4-Isopropyltoluene	0.0058 (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Acetone	ND (0.0100)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Benzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Bromobenzene	ND (0.0020)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-5
Date Sampled: 10/09/14 11:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Bromodichloromethane	ND (0.0006)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Bromoform	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Bromomethane	ND (0.0020)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Carbon Disulfide	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Carbon Tetrachloride	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Chlorobenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Chloroethane	ND (0.0020)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Chloroform	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Chloromethane	ND (0.0020)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Dibromochloromethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Dibromomethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Dichlorodifluoromethane	ND (0.0020)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Diethyl Ether	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Di-isopropyl ether	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Ethylbenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Hexachlorobutadiene	ND (0.0006)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Hexachloroethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Isopropylbenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Methylene Chloride	ND (0.0020)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Naphthalene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
n-Butylbenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
n-Propylbenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
sec-Butylbenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Styrene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
tert-Butylbenzene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Tetrachloroethene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-5
Date Sampled: 10/09/14 11:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Toluene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Trichloroethene	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Trichlorofluoromethane	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Vinyl Acetate	ND (0.0050)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Vinyl Chloride	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Xylene O	ND (0.0010)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Xylene P,M	ND (0.0020)		8260B		1	10/09/14 20:00	CXJ0136	CJ40941
Xylenes (Total)	ND (0.0020)		8260B		1	10/09/14 20:00		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			10/09/14 20:00		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>84 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>89 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>79 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty
Client Sample ID: MW-106
Date Sampled: 10/09/14 11:40
Percent Solids: N/A

ESS Laboratory Work Order: 1410254
ESS Laboratory Sample ID: 1410254-06
Sample Matrix: Ground Water
Units: mg/L

Extraction Method: 3005A/200.7

Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (0.0025)		7010		1	KJK	10/16/14 0:52	50	25	CJ41428
Barium	0.036 (0.025)		6010C		1	KJK	10/14/14 18:24	50	25	CJ41428
Cadmium	ND (0.0025)		6010C		1	KJK	10/14/14 18:24	50	25	CJ41428
Chromium	ND (0.010)		6010C		1	KJK	10/14/14 18:24	50	25	CJ41428
Lead	ND (0.010)		6010C		1	KJK	10/14/14 18:24	50	25	CJ41428
Mercury	ND (0.00020)		7470A		1	BJV	10/10/14 15:20	20	40	CJ41001
Selenium	ND (0.025)		6010C		1	KJK	10/14/14 18:24	50	25	CJ41428
Silver	ND (0.005)		6010C		1	KJK	10/14/14 18:24	50	25	CJ41428



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Dissolved Metals

Batch CJ41001 - 245.1/7470A

Blank

Mercury	ND	0.00020	mg/L							
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LCS

Mercury	0.00588	0.00020	mg/L	0.006000		98	80-120			
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Batch CJ41428 - 3005A/200.7

Blank

Arsenic	ND	0.0025	mg/L							
Barium	ND	0.025	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							

LCS

Arsenic	0.248	0.0500	mg/L	0.2500		99	80-120			
Barium	0.250	0.025	mg/L	0.2500		100	80-120			
Cadmium	0.120	0.0025	mg/L	0.1250		96	80-120			
Chromium	0.249	0.010	mg/L	0.2500		100	80-120			
Lead	0.249	0.010	mg/L	0.2500		99	80-120			
Selenium	0.493	0.025	mg/L	0.5000		99	80-120			
Silver	0.124	0.005	mg/L	0.1250		99	80-120			

LCS Dup

Arsenic	0.250	0.0500	mg/L	0.2500		100	80-120	0.8	20	
Barium	0.253	0.025	mg/L	0.2500		101	80-120	1	20	
Cadmium	0.123	0.0025	mg/L	0.1250		98	80-120	2	20	
Chromium	0.252	0.010	mg/L	0.2500		101	80-120	1	20	
Lead	0.253	0.010	mg/L	0.2500		101	80-120	2	20	
Selenium	0.507	0.025	mg/L	0.5000		101	80-120	3	20	
Silver	0.126	0.005	mg/L	0.1250		101	80-120	2	20	

8260B Volatile Organic Compounds

Batch CJ40941 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CJ40941 - 5030B

1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0250	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							
Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CJ40941 - 5030B

Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0220		mg/L	0.02500		88	70-130			
Surrogate: 4-Bromofluorobenzene	0.0196		mg/L	0.02500		79	70-130			
Surrogate: Dibromofluoromethane	0.0222		mg/L	0.02500		89	70-130			
Surrogate: Toluene-d8	0.0202		mg/L	0.02500		81	70-130			

LCS

1,1,1,2-Tetrachloroethane	9.70		ug/L	10.00		97	70-130			
1,1,1-Trichloroethane	10.1		ug/L	10.00		101	70-130			
1,1,2,2-Tetrachloroethane	9.79		ug/L	10.00		98	70-130			
1,1,2-Trichloroethane	9.84		ug/L	10.00		98	70-130			
1,1-Dichloroethane	9.91		ug/L	10.00		99	70-130			
1,1-Dichloroethene	10.8		ug/L	10.00		108	70-130			
1,1-Dichloropropene	10.6		ug/L	10.00		106	70-130			
1,2,3-Trichlorobenzene	10.7		ug/L	10.00		107	70-130			
1,2,3-Trichloropropane	9.82		ug/L	10.00		98	70-130			
1,2,4-Trichlorobenzene	11.5		ug/L	10.00		115	70-130			
1,2,4-Trimethylbenzene	10.0		ug/L	10.00		100	70-130			
1,2-Dibromo-3-Chloropropane	11.9		ug/L	10.00		119	70-130			
1,2-Dibromoethane	9.92		ug/L	10.00		99	70-130			
1,2-Dichlorobenzene	9.88		ug/L	10.00		99	70-130			
1,2-Dichloroethane	10.3		ug/L	10.00		103	70-130			
1,2-Dichloropropane	10.0		ug/L	10.00		100	70-130			
1,3,5-Trimethylbenzene	11.3		ug/L	10.00		113	70-130			
1,3-Dichlorobenzene	9.84		ug/L	10.00		98	70-130			
1,3-Dichloropropane	9.78		ug/L	10.00		98	70-130			
1,4-Dichlorobenzene	10.2		ug/L	10.00		102	70-130			
1,4-Dioxane - Screen	474		ug/L	200.0		237	0-332			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CJ40941 - 5030B

1-Chlorohexane	8.83		ug/L	10.00		88	70-130			
2,2-Dichloropropane	10.9		ug/L	10.00		109	70-130			
2-Butanone	53.0		ug/L	50.00		106	70-130			
2-Chlorotoluene	10.1		ug/L	10.00		101	70-130			
2-Hexanone	53.7		ug/L	50.00		107	70-130			
4-Chlorotoluene	10.2		ug/L	10.00		102	70-130			
4-Isopropyltoluene	11.2		ug/L	10.00		112	70-130			
4-Methyl-2-Pentanone	52.1		ug/L	50.00		104	70-130			
Acetone	52.3		ug/L	50.00		105	70-130			
Benzene	10.1		ug/L	10.00		101	70-130			
Bromobenzene	10.3		ug/L	10.00		103	70-130			
Bromochloromethane	10.5		ug/L	10.00		105	70-130			
Bromodichloromethane	10.2		ug/L	10.00		102	70-130			
Bromoform	10.5		ug/L	10.00		105	70-130			
Bromomethane	7.21		ug/L	10.00		72	70-130			
Carbon Disulfide	11.4		ug/L	10.00		114	70-130			
Carbon Tetrachloride	11.0		ug/L	10.00		110	70-130			
Chlorobenzene	9.37		ug/L	10.00		94	70-130			
Chloroethane	9.14		ug/L	10.00		91	70-130			
Chloroform	10.1		ug/L	10.00		101	70-130			
Chloromethane	8.27		ug/L	10.00		83	70-130			
cis-1,2-Dichloroethene	9.81		ug/L	10.00		98	70-130			
cis-1,3-Dichloropropene	9.14		ug/L	10.00		91	70-130			
Dibromochloromethane	9.24		ug/L	10.00		92	70-130			
Dibromomethane	10.3		ug/L	10.00		103	70-130			
Dichlorodifluoromethane	9.99		ug/L	10.00		100	70-130			
Diethyl Ether	9.41		ug/L	10.00		94	70-130			
Di-isopropyl ether	10.7		ug/L	10.00		107	70-130			
Ethyl tertiary-butyl ether	10.0		ug/L	10.00		100	70-130			
Ethylbenzene	9.61		ug/L	10.00		96	70-130			
Hexachlorobutadiene	11.5		ug/L	10.00		115	70-130			
Hexachloroethane	12.0		ug/L	10.00		120	70-130			
Isopropylbenzene	10.1		ug/L	10.00		101	70-130			
Methyl tert-Butyl Ether	9.50		ug/L	10.00		95	70-130			
Methylene Chloride	9.92		ug/L	10.00		99	70-130			
Naphthalene	9.58		ug/L	10.00		96	70-130			
n-Butylbenzene	12.2		ug/L	10.00		122	70-130			
n-Propylbenzene	10.3		ug/L	10.00		103	70-130			
sec-Butylbenzene	11.2		ug/L	10.00		112	70-130			
Styrene	9.37		ug/L	10.00		94	70-130			
tert-Butylbenzene	10.4		ug/L	10.00		104	70-130			
Tertiary-amyl methyl ether	9.52		ug/L	10.00		95	70-130			
Tetrachloroethene	8.71		ug/L	10.00		87	70-130			
Tetrahydrofuran	11.9		ug/L	10.00		119	70-130			
Toluene	10.4		ug/L	10.00		104	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CJ40941 - 5030B

trans-1,2-Dichloroethene	10.3		ug/L	10.00		103	70-130			
trans-1,3-Dichloropropene	8.37		ug/L	10.00		84	70-130			
Trichloroethene	9.55		ug/L	10.00		96	70-130			
Trichlorofluoromethane	9.30		ug/L	10.00		93	70-130			
Vinyl Acetate	10.3		ug/L	10.00		103	70-130			
Vinyl Chloride	10.9		ug/L	10.00		109	70-130			
Xylene O	10.1		ug/L	10.00		101	70-130			
Xylene P,M	19.9		ug/L	20.00		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0254		mg/L	0.02500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0223		mg/L	0.02500		89	70-130			
Surrogate: Dibromofluoromethane	0.0257		mg/L	0.02500		103	70-130			
Surrogate: Toluene-d8	0.0219		mg/L	0.02500		88	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	10.0		ug/L	10.00		100	70-130	3	25	
1,1,1-Trichloroethane	10.8		ug/L	10.00		108	70-130	7	25	
1,1,2,2-Tetrachloroethane	9.65		ug/L	10.00		96	70-130	1	25	
1,1,2-Trichloroethane	9.90		ug/L	10.00		99	70-130	0.6	25	
1,1-Dichloroethane	10.1		ug/L	10.00		101	70-130	2	25	
1,1-Dichloroethene	10.8		ug/L	10.00		108	70-130	0.6	25	
1,1-Dichloropropene	10.8		ug/L	10.00		108	70-130	1	25	
1,2,3-Trichlorobenzene	9.29		ug/L	10.00		93	70-130	14	25	
1,2,3-Trichloropropane	9.32		ug/L	10.00		93	70-130	5	25	
1,2,4-Trichlorobenzene	9.71		ug/L	10.00		97	70-130	17	25	
1,2,4-Trimethylbenzene	9.39		ug/L	10.00		94	70-130	6	25	
1,2-Dibromo-3-Chloropropane	10.8		ug/L	10.00		108	70-130	9	25	
1,2-Dibromoethane	9.62		ug/L	10.00		96	70-130	3	25	
1,2-Dichlorobenzene	9.18		ug/L	10.00		92	70-130	7	25	
1,2-Dichloroethane	9.76		ug/L	10.00		98	70-130	5	25	
1,2-Dichloropropane	9.64		ug/L	10.00		96	70-130	4	25	
1,3,5-Trimethylbenzene	10.6		ug/L	10.00		106	70-130	6	25	
1,3-Dichlorobenzene	9.39		ug/L	10.00		94	70-130	5	25	
1,3-Dichloropropane	10.1		ug/L	10.00		101	70-130	4	25	
1,4-Dichlorobenzene	9.68		ug/L	10.00		97	70-130	5	25	
1,4-Dioxane - Screen	342		ug/L	200.0		171	0-332	32	200	
1-Chlorohexane	9.06		ug/L	10.00		91	70-130	3	25	
2,2-Dichloropropane	10.3		ug/L	10.00		103	70-130	5	25	
2-Butanone	51.6		ug/L	50.00		103	70-130	3	25	
2-Chlorotoluene	9.53		ug/L	10.00		95	70-130	6	25	
2-Hexanone	55.7		ug/L	50.00		111	70-130	4	25	
4-Chlorotoluene	9.37		ug/L	10.00		94	70-130	8	25	
4-Isopropyltoluene	10.3		ug/L	10.00		103	70-130	8	25	
4-Methyl-2-Pentanone	50.4		ug/L	50.00		101	70-130	3	25	
Acetone	56.8		ug/L	50.00		114	70-130	8	25	
Benzene	10.2		ug/L	10.00		102	70-130	0.9	25	
Bromobenzene	9.92		ug/L	10.00		99	70-130	4	25	



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CJ40941 - 5030B

Bromochloromethane	10.3		ug/L	10.00		103	70-130	2	25	
Bromodichloromethane	10.3		ug/L	10.00		103	70-130	1	25	
Bromoform	10.6		ug/L	10.00		106	70-130	2	25	
Bromomethane	7.76		ug/L	10.00		78	70-130	7	25	
Carbon Disulfide	11.0		ug/L	10.00		110	70-130	3	25	
Carbon Tetrachloride	11.2		ug/L	10.00		112	70-130	2	25	
Chlorobenzene	9.26		ug/L	10.00		93	70-130	1	25	
Chloroethane	10.1		ug/L	10.00		101	70-130	10	25	
Chloroform	10.2		ug/L	10.00		102	70-130	1	25	
Chloromethane	9.48		ug/L	10.00		95	70-130	14	25	
cis-1,2-Dichloroethene	10.4		ug/L	10.00		104	70-130	6	25	
cis-1,3-Dichloropropene	9.19		ug/L	10.00		92	70-130	0.5	25	
Dibromochloromethane	9.48		ug/L	10.00		95	70-130	3	25	
Dibromomethane	10.5		ug/L	10.00		105	70-130	2	25	
Dichlorodifluoromethane	9.51		ug/L	10.00		95	70-130	5	25	
Diethyl Ether	8.93		ug/L	10.00		89	70-130	5	25	
Di-isopropyl ether	10.3		ug/L	10.00		103	70-130	3	25	
Ethyl tertiary-butyl ether	10.2		ug/L	10.00		102	70-130	2	25	
Ethylbenzene	9.30		ug/L	10.00		93	70-130	3	25	
Hexachlorobutadiene	11.4		ug/L	10.00		114	70-130	1	25	
Hexachloroethane	11.4		ug/L	10.00		114	70-130	5	25	
Isopropylbenzene	9.50		ug/L	10.00		95	70-130	6	25	
Methyl tert-Butyl Ether	10.3		ug/L	10.00		103	70-130	8	25	
Methylene Chloride	10.5		ug/L	10.00		105	70-130	6	25	
Naphthalene	8.30		ug/L	10.00		83	70-130	14	25	
n-Butylbenzene	10.6		ug/L	10.00		106	70-130	14	25	
n-Propylbenzene	9.31		ug/L	10.00		93	70-130	10	25	
sec-Butylbenzene	10.1		ug/L	10.00		101	70-130	11	25	
Styrene	9.27		ug/L	10.00		93	70-130	1	25	
tert-Butylbenzene	9.21		ug/L	10.00		92	70-130	12	25	
Tertiary-amyl methyl ether	9.44		ug/L	10.00		94	70-130	0.8	25	
Tetrachloroethene	8.95		ug/L	10.00		90	70-130	3	25	
Tetrahydrofuran	12.1		ug/L	10.00		121	70-130	1	25	
Toluene	10.3		ug/L	10.00		103	70-130	1	25	
trans-1,2-Dichloroethene	10.6		ug/L	10.00		106	70-130	3	25	
trans-1,3-Dichloropropene	8.54		ug/L	10.00		85	70-130	2	25	
Trichloroethene	9.49		ug/L	10.00		95	70-130	0.6	25	
Trichlorofluoromethane	9.45		ug/L	10.00		94	70-130	2	25	
Vinyl Acetate	9.64		ug/L	10.00		96	70-130	7	25	
Vinyl Chloride	10.0		ug/L	10.00		100	70-130	9	25	
Xylene O	9.86		ug/L	10.00		99	70-130	3	25	
Xylene P,M	19.1		ug/L	20.00		96	70-130	4	25	
Surrogate: 1,2-Dichloroethane-d4	0.0255		mg/L	0.02500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0216		mg/L	0.02500		86	70-130			
Surrogate: Dibromofluoromethane	0.0259		mg/L	0.02500		104	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CJ40941 - 5030B

<i>Surrogate: Toluene-d8</i>	0.0222		mg/L	0.02500		89	70-130			
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CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

Notes and Definitions

- U Analyte included in the analysis, but not detected
- D Diluted.
- C- Continuing Calibration recovery is below lower control limit (C-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Realty

ESS Laboratory Work Order: 1410254

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002

<http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_Opra/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.epsc.gov/cgi-bin/labapplist.aspx>

Sample and Cooler Receipt Checklist

Client: Resource Controls
 Client Project ID: _____
 Shipped/Delivered Via: Client

ESS Project ID: 14100254
 Date Project Due: ~~10/16/2014~~ 10/17/14
 Days For Project: 5 Day
WB
10/9/14

Items to be checked upon receipt:

- | | | | |
|--|-------------------------------|---|---|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> No |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input type="checkbox"/> No |
| Cooler Temp: <u>7.5</u> | | 16. Are ESS labels on correct containers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Iced With: <u>Ice</u> | | 17. Were samples received intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: _____ | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: _____ | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: _____ | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: _____ | |

18. Was there need to call project manager to discuss status? If yes, please explain.
NO ID's on any of VOC vials - used sample time
for ID next 10/9/14

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	250 ml Plastic	1	NP
2	Yes	250 ml Plastic	1	NP
3	Yes	250 ml Plastic	1	NP
3	Yes	40 ml - VOA	3	HCL
4	Yes	40 ml - VOA	3	HCL
5	Yes	40 ml - VOA	3	HCL
6	Yes	250 ml Plastic	1	NP

Completed By: Mari B Date/Time: 10/9/14 1402
 Reviewed By: um.msd Date/Time: 10/9/14 1405

ESS Laboratory
 Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time: S Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy

Reporting Limits: _____
 Electronic Deliverable: Yes No
 Format: Excel Access _____ PDF Other _____

ESS LAB PROJECT ID: 1410254

Co. Name: Resource Control Associates
 Project # 731A
 Project Name (20 Char. or less): Bay Spring Roadway

Contact Person: Mark House
 Address: 474 Broadway
 City: Pawtucket State: RI Zip: 02860

Telephone #: (401) 788-6860 Fax #: _____
 Email Address: markhouse@resourcecontrol.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of containers	Type of Containers	8015 DRO	8021 VPH	8015 GRO	8021 MTRB/RTX	8100 DRO	EPH EPH	EPH EPH	8081 8082 608 Pesticides PCB	8270 625 PAH	SVOA 8270	RCRAS 8270	RCRAS 8270	TCLP-RCRAS NBC7	MCP-METALS (13) w/Hg	MCP-METALS (13)	
1	10/9/14	1002	X	X		MW-101	1	1	A																
2		1025	X	X		MW-101	1	1	P																
3		1038	X	X		MW-3	1/2	4	P/W																
4		1110	X	X		MW-105	2	3	V																
5		1130	X	X		MW-5	2	3	V																
6		1140	X	X		MW-100	1	1	P																

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: Yes No Internal Use Only: Yes No NA: No NA: Pickup: Technicians:

Seals Intact: Yes No

Cooler Temp: 7.5°C 10/14/14

Preservation Code: 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by: Emily F. Gardner

Comments: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>10/14/14 12:27</u>	<u>[Signature]</u>	
<u>[Signature]</u>		<u>[Signature]</u>	

APPENDIX F

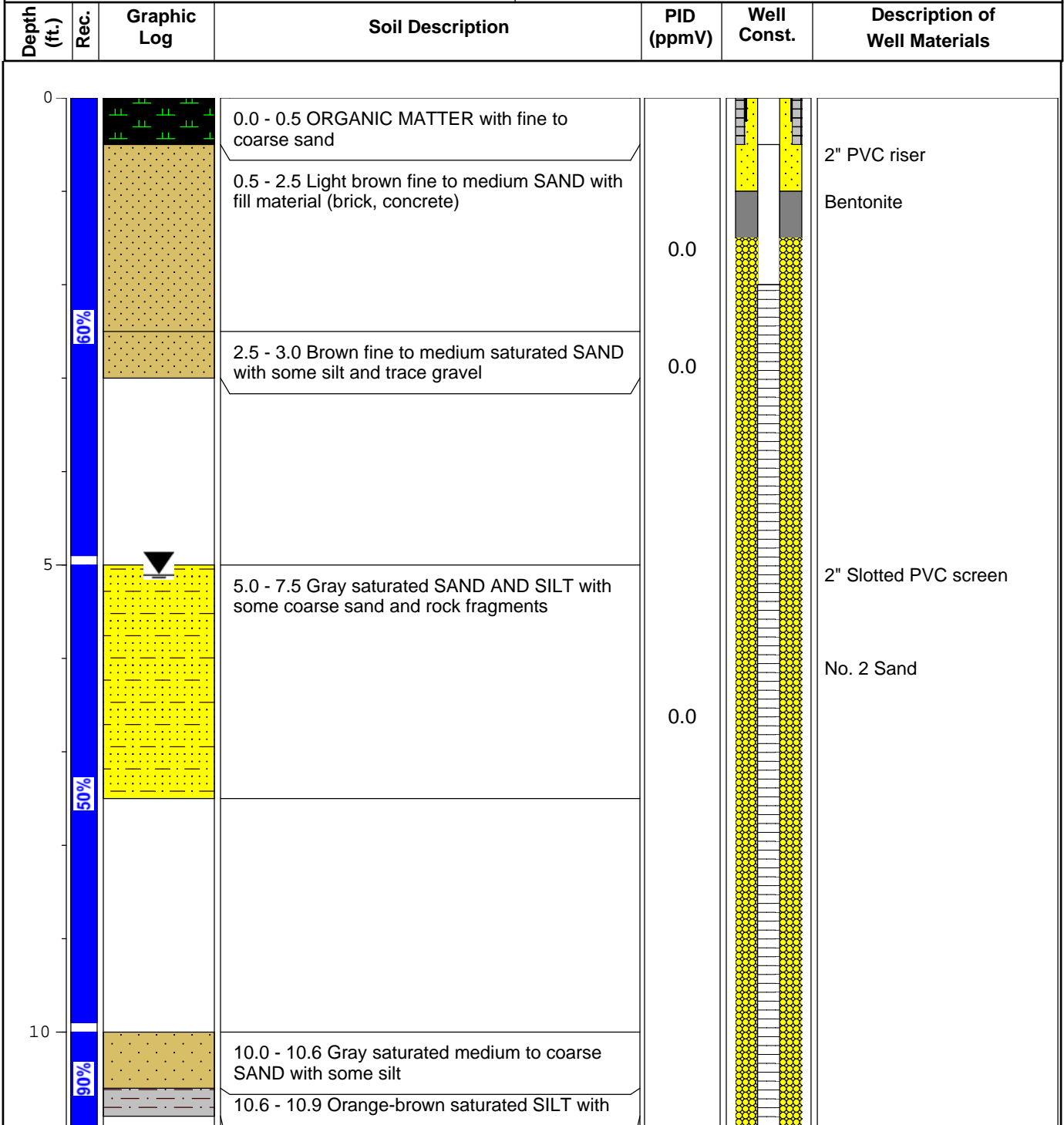
Drilling Logs

PROJECT INFORMATION

PROJECT: Bay Spring Realty Co.
PROJECT NO.: 7131A
LOCATION: Barrington, RI
LOGGED BY: Emily Gardiner
DATE STARTED: 6/4/2014
DATE FINISHED: 6/4/2014

DRILLING INFORMATION

DRILLING CO.: New England Geotech
DRILLER: Mayner
RIG TYPE: Track mounted
METHOD OF DRILLING: Geoprobe
SAMPLING METHOD: 5' Macrosampler



 Apparent water level during drilling  Laboratory analytical sample

NOTES: No sample was collected.



DRILLING LOG
 LOCATION ID.: MW-101
 TOTAL DEPTH (FT.): 11

PROJECT INFORMATION

PROJECT: Bay Spring Realty Co.
 PROJECT NO.: 7131A
 LOCATION: Barrington, RI
 LOGGED BY: Emily Gardiner
 DATE STARTED: 6/4/2014
 DATE FINISHED: 6/4/2014

DRILLING INFORMATION

DRILLING CO.: New England Geotech
 DRILLER: Mayner
 RIG TYPE: Track mounted
 METHOD OF DRILLING: Geoprobe
 SAMPLING METHOD: 5' Macrosampler

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
-------------	------	-------------	------------------	------------	-------------	-------------------------------

some sand and rock fragments

▼ Apparent water level during drilling ■ Laboratory analytical sample









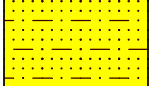

NOTES: No sample was collected.

PROJECT INFORMATION

 PROJECT: Bay Spring Realty Co.
 PROJECT NO.: 7131A
 LOCATION: Barrington, RI
 LOGGED BY: Emily Gardiner
 DATE STARTED: 6/4/2014
 DATE FINISHED: 6/4/2014

DRILLING INFORMATION

 DRILLING CO.: New England Geotech
 DRILLER: Mayner
 RIG TYPE: Track mounted Geoprobe
 METHOD OF DRILLING: Direct push
 SAMPLING METHOD: 5' Macrosampler

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 0.5 ORGANIC MATTER with fine to coarse sand			2" PVC riser
			0.5 - 1.5 Orange-brown, dark brown, and yellow-brown dry fine to medium SAND	0.0		Bentonite
			1.5 - 1.8 Black COAL/ASH-like material			
			1.8 - 2.4 Dark brown moist fine to medium SAND with asphalt-like odor	0.0		
			2.4 - 3.5 Orange-brown saturated fine to coarse SAND			
	70%					
5			5.0 - 5.5 Saturated CONCRETE fragments			2" Slotted PVC screen
			5.5 - 7.0 Gray saturated CLAY AND SAND			No. 2 Sand
			7.0 - 8.1 Light gray-brown saturated SAND AND SILT with some clay	0.0		
	62%					
10			10.0 - 12.0 Gray-brown saturated fine to medium SAND with some coarse sand			
	100%					



Apparent water level during drilling



Laboratory analytical sample

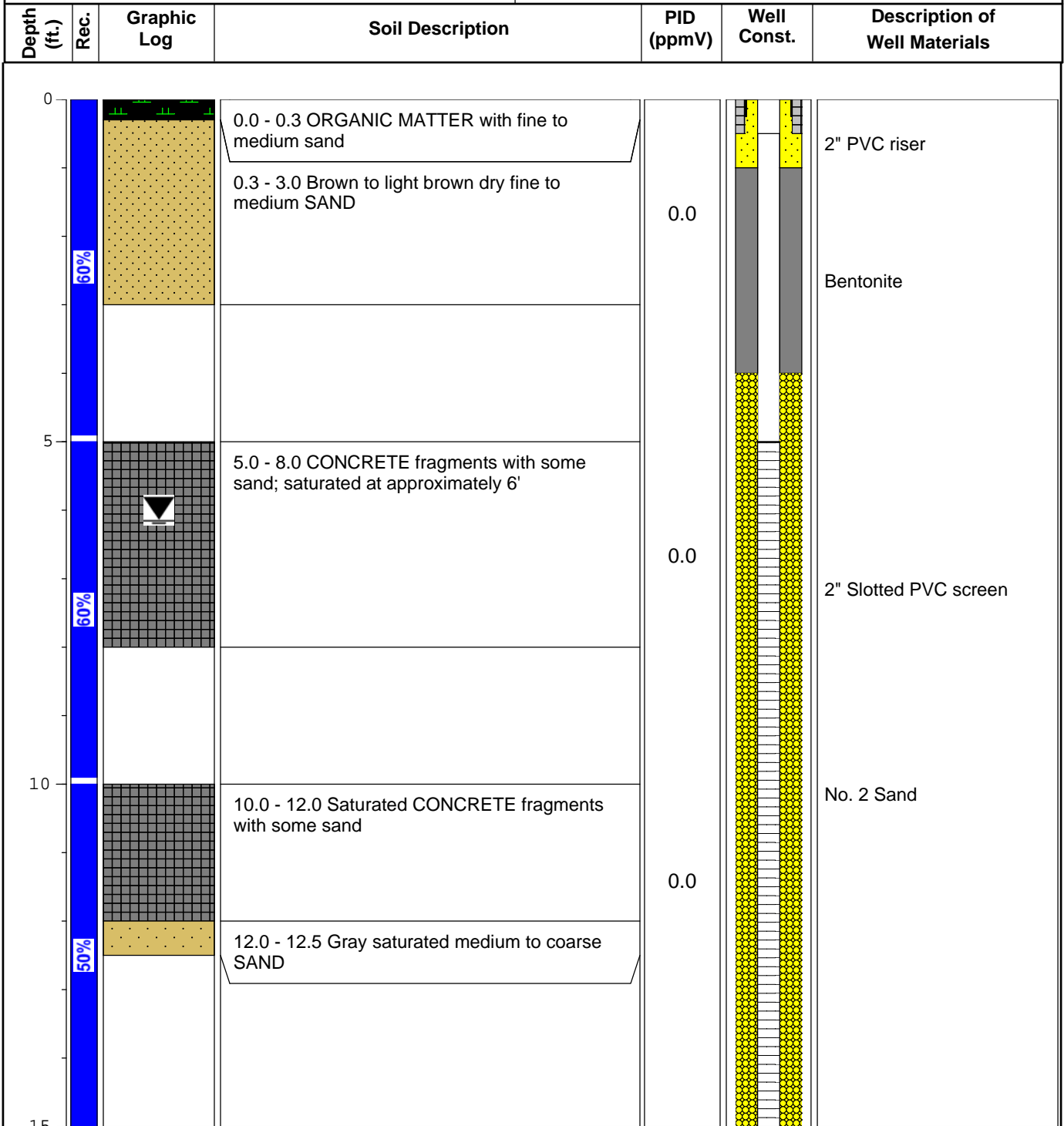
NOTES: No sample was collected.

PROJECT INFORMATION

PROJECT: Bay Spring Realty Co.
PROJECT NO.: 7131A
LOCATION: Barrington, RI
LOGGED BY: Emily Gardiner
DATE STARTED: 6/4/2014
DATE FINISHED: 6/4/2014

DRILLING INFORMATION

DRILLING CO.: New England Geotech
DRILLER: Mayner
RIG TYPE: Track mounted Geoprobe
METHOD OF DRILLING: Direct push
SAMPLING METHOD: 5' Macrosampler



Apparent water level during drilling



Laboratory analytical sample

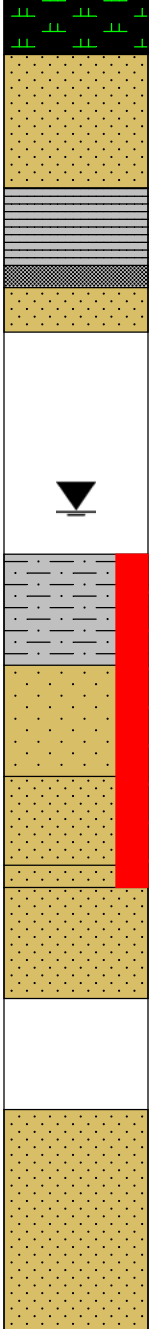

NOTES: No sample was collected.

PROJECT INFORMATION

PROJECT: Bay Spring Realty Co.
PROJECT NO.: 7131A
LOCATION: Barrington, RI
LOGGED BY: Emily Gardiner
DATE STARTED: 6/4/2014
DATE FINISHED: 6/4/2014

DRILLING INFORMATION

DRILLING CO.: New England Geotech
DRILLER: Mayner
RIG TYPE: Track mounted Geoprobe
METHOD OF DRILLING: Direct push
SAMPLING METHOD: 5' Macrosampler

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 0.5 ORGANIC MATTER with fine to coarse sand			2" PVC riser
			0.5 - 1.7 Orange-brown fine to medium dry SAND with trace gravel			Bentonite
			1.7 - 2.4 Gray-brown moist CLAY with some sand	0.0		
			2.4 - 2.6 Black COAL/ASH-like material			
			2.6 - 3.0 Gray fine to medium wet to saturated SAND; saturated at 4.5'			
5			5.0 - 6.0 Black-brown saturated CLAY AND SAND with petroleum odor	76.1		2" Slotted PVC screen
			6.0 - 7.0 Gray-brown fine to coarse saturated SAND with slight petroleum odor			No. 2 Sand
			7.0 - 7.8 Gray-brown fine to medium saturated SAND with petroleum odor	212		
			7.8 - 8.0 Black fine to medium saturated SAND with strong petroleum odor	97.1		
			8.0 - 9.0 Gray-brown fine to medium saturated SAND with petroleum odor	17.8		
10			10.0 - 12.0 Gray-brown fine to medium saturated SAND with petroleum odor	11.2		



Apparent water level during drilling



Laboratory analytical sample

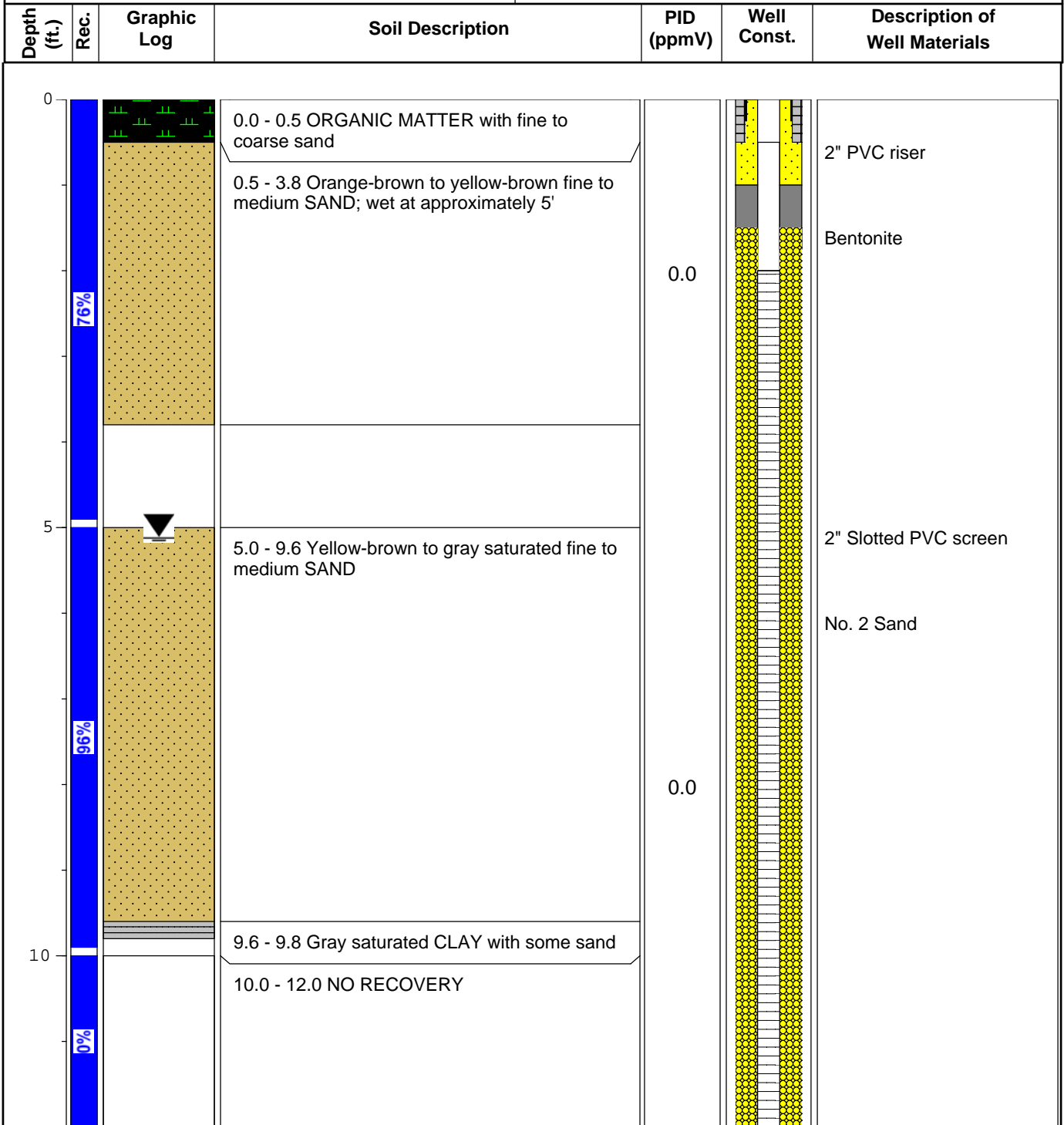
NOTES: Sampled collected at 5-8' for TPH and VOCs

PROJECT INFORMATION

PROJECT: Bay Spring Realty Co.
PROJECT NO.: 7131A
LOCATION: Barrington, RI
LOGGED BY: Emily Gardiner
DATE STARTED: 6/4/2014
DATE FINISHED: 6/4/2014

DRILLING INFORMATION

DRILLING CO.: New England Geotech
DRILLER: Mayner
RIG TYPE: Track mounted Geoprobe
METHOD OF DRILLING: Direct push
SAMPLING METHOD: 5' Macrosampler



Apparent water level during drilling



Laboratory analytical sample

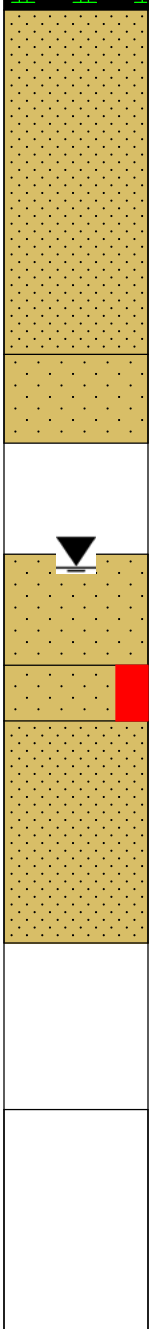


NOTES: No sample was collected.

PROJECT INFORMATION

PROJECT: Bay Spring Realty Co.
PROJECT NO.: 7131A
LOCATION: Barrington, RI
LOGGED BY: Emily Gardiner
DATE STARTED: 6/4/2014
DATE FINISHED: 6/4/2014

DRILLING INFORMATION

DRILLING CO.: New England Geotech
DRILLER: Mayner
RIG TYPE: Track mounted Geoprobe
METHOD OF DRILLING: Direct push
SAMPLING METHOD: 5' Macrosampler

Depth (ft.)	Rec.	Graphic Log	Soil Description	PID (ppmV)	Well Const.	Description of Well Materials
0			0.0 - 0.1 ORGANIC MATTER 0.1 - 3.2 Orange-brown fine to medium SAND with trace coarse sand			2" PVC riser Bentonite
			3.2 - 4.0 Light brown moist medium to coarse SAND			
5			5.0 - 6.0 Light brown moist medium to coarse SAND			2" Slotted PVC screen
			6.0 - 6.5 Black saturated fine to medium SAND with strong petroleum odor	0.5		No. 2 Sand
			6.5 - 8.5 Gray saturated fine to medium SAND with slight petroleum odor; some intermittent black soils	0.3		
10			10.0 - 12.0 NO RECOVERY			

 Apparent water level during drilling  Laboratory analytical sample

NOTES: Sampled collected at 6-6.5' for TPH and VOCs

APPENDIX G

Waste Management Records

404 Front 3098 Rear 520

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number RIP000035748	2. Page 1 of 1	3. Emergency Response Phone (800) 899-1038	4. Manifest Tracking Number 013376602 JJK	
5. Generator's Name and Mailing Address Bay Spring Realty 909 North Main St. Providence RI 02904			Generator's Site Address (if different than mailing address) Bay Spring Realty 90 Bay Spring Avenue Barrington RI 02806			
Generator's Phone: 401 265-1835						
6. Transporter 1 Company Name Cyn Oil Corporation			U.S. EPA ID Number MAD082303777			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Trade Treatment and Recycling Northeast, LLC 136 Gracey Ave. Meriden CT 06451			U.S. EPA ID Number CTD021816889			
Facility's Phone: 203 238-6751						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	X	1. RQ NA3082, Hazardous waste, liquid, n.o.s. (Carbon Tetrachloride, Trichloroethylene) 9, PGIII	No.	Type		
		2.	001	TT	3618	G
		3.				
		4.				
13. Waste Codes D019 D029 D040 F002						
14. Special Handling Instructions and Additional Information (E,T) Solvent-impacted water, PO # 631080. ERG#171						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name XBAY SPRING REALTY BY JACK CURTIS MGR. IX			Signature <i>Jack Curtis</i>		Month Day Year 8 28 14	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name Robert C. Lignowski			Signature <i>Robert C. Lignowski</i>		Month Day Year 8 28 14
	Transporter 2 Printed/Typed Name			Signature		Month Day Year
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	18b. Alternate Facility (or Generator)			Manifest Reference Number:		
	Facility's Phone:			U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator)						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H135		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Dobnia Cestermash			Signature <i>Dobnia Cestermash</i>		Month Day Year 8 29 14	

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

JOB NO. 208046-ST
 DAY & DATE 8 28 14
 CONTACT PERSON JACK
 PHONE NO. 401-265-1835
 CLIENT BAY SPRING REALITY
 BILLING ADDRESS 909 N MAIN ST
PROV RI 02904



DAILY WORKSHEET

STOUGHTON 781-341-1777
 781-341-5108
 MAINE 207-872-9699 P.O. NO. _____
 NEW HAMPSHIRE 603-749-4969
 PREVAILING WAGE YES NO

JOB LOCATION ADAMS ST
BARRINGTON RI

ATT: _____
 Depart From Shop 6 AM Arrived Back At Shop 1:30 PM

NAME	TITLE	Time		REG.	OT	DT
		ARRIVE	DEPART			
M MUCCIACCIO	F	8 AM		7		
B LIBNOWSKI	D			7		
J HEFNER	P/O			7		
OFF SITE / TRAVEL TIME						
TOTAL LABOR HOURS						

QTY.	TYPE	FLEET #	HRS.	INITIALS
1	Pick up	195	Day	MM
1	VAC TRAILER 201	404	7	RL
1	PRESSURE WASH 2	987	Day	MM

QTY.	DESCRIPTION
1	3 SETS PPE

LIQUID	
MANIFEST NO.	013376602 JJK
SOLID	
MANIFEST NO.	

JOB DESCRIPTION
PUMP AND CLEAN
① FRAC TANK

OTHER
 TRANSPORTATION _____
NONE
 SUBCONTRACTOR _____

JOB COMPLETED YES NO
 REMARKS _____

CUSTOMER REPRESENTATIVE _____
 CYN ENVIRONMENTAL REPRESENTATIVE [Signature]
 DATE _____

Bud Berg

JOB NO. 208046-ST
 DAY & DATE 8-28-2014
 CONTACT PERSON Jack Curtlip
 PHONE NO. 401-265-1835
 CLIENT Bay Spring Realty
 BILLING ADDRESS 909 North MAIN ST
Providence RI 02904



DAILY WORKSHEET

STOUGHTON 781-341-1777
 CONNECTICUT 781-341-5108
 NEW HAMPSHIRE 603-749-4969
 P.O. NO. N/A
 PREVAILING WAGE YES NO

ATT: _____
 Depart From Shop 8 AM Arrived Back At Shop 11:30 AM

JOB LOCATION _____
90 Bay Spring Ave.
BARRINGTON RI 02806

NAME	TITLE	Time		REG.	OT	DT
		ARRIVE	DEPART			
J. Henriques	Ø			3 1/2		
OFF SITE / TRAVEL TIME						
TOTAL LABOR HOURS						
				3 1/2		

QTY.	TYPE	FLEET #	HRS.	INITIALS
	RLO TRUCK	826	3 1/2	JH

LIQUID	
MANIFEST NO.	
SOLID RLO # PSC	<u>6.57 TONS</u>
MANIFEST NO.	<u>BOL</u>

QTY.	DESCRIPTION
/	

JOB DESCRIPTION
 Went to site & met crew & contact
 Picked up RLO cans from site "PSC"
 & hauled to Brockton MA for
 Disposal. Champion city Recovery.
 Then staged empty can at RLO
 yard for later return to PSC.
 IN RI

OTHER
 TRANSPORTATION _____
 SUBCONTRACTOR _____

JOB COMPLETED YES NO
 REMARKS _____

Phil Bell
 CUSTOMER REPRESENTATIVE _____
 CYN ENVIRONMENTAL REPRESENTATIVE [Signature]
 DATE 8-28-2014

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

CARRIER: Cyn Environmental Services
 100 Tosca Drive
 Stoughton, MA 02072
 Mr. Richard R. LaMothe, LSP
 P781.341.1777 x155

SHIPPER NO. **208046-ST**
 CARRIER NO. **85251 MA**
 DATE: **8-28-2014**

TO: CONSIGNEE
 Champion City Recovery
 138 Wilder Street Extension
 Brockton, MA 02301
 Mr. Steven Wenzel, Manager
 P508.941.6700

FROM: SHIPPER
 Bay Spring Realty
 90 Bay Spring Avenue
 Barrington, RI 02806
 Site:
 Same as above.

Cyn Job
 Cyn PO
 Invoice through Brighter Horizons Environmental Corp.
 P.O. Box 219
 Chelmsford, MA 01824
 Mr. Jason Squaglia
 P978.970.0500

EMERGENCY RESPONSE PHONE NO. 800.899.1038 VEHICLE NUMBER **826**

NO. SHIPPING UNITS	HM*	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (subject to correction)	RATE	CHARGES
1 CM		Non-RCRA, Non-DOT Regulated Material (waste soils/debris, primarily metal)	<i>EST</i> 10 YARDS	n/a	n/a

When transporting hazardous materials include the technical or chemical name for H.M.s. (not otherwise specified) or generic description of material with appropriate UN or NA number as defined in US DOT Emergency Communication Standard (HM-128C). Provide emergency response phone number in case of incident or accident in box above.

REMIT C.O.D. TO ADDRESS: n/a	COD	AMT: \$ n/a	C.O.D. FEE: \$ n/a
			PREPAID COLLECT
NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The Agreed or declared value of the property to hereby specifically stated by the shipper to be not exceeding \$ <u>n/a</u> per _____	This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignee, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.	TOTAL CHARGES: \$ n/a
	Signature _____	n/a	PREPAID COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and conditions of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier, (the word carrier being understood throughout the contract as meaning any person or corporation in possession of property under the contract) agrees to carry to the usual place of delivery at said destination if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.
NOTICE: Freight moving under this Bill of Lading is subject to the classifications and lawfully filed tariffs in effect on the date of this Bill of Lading. This notice supersedes and negates any claimed, alleged or asserted oral or written contract, promise, representation or understanding between the parties with respect to this freight, except to the extent of any written contract which establishes lawful contract freight and is signed by authorized representatives of both parties to the contract.

SHIPPER <i>Bay Spring Realty</i> PER <i>[Signature]</i>	CARRIER <i>Cyn Oil Corporation</i> PER <i>[Signature]</i>
	DATE 8-28-2014

* HAZARDOUS MATERIALS MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIAL AS REFERENCED IN 49CFR § 172.202.

Champion City Recovery/
 Stoughton Recycling
 508-941-6700/781-341-9920

001021
 Brighter Horizons Environmental
 PO Box 219
 Chelmsford, MA 01824

GROSS WEIGHT 49,780.00
 TARE WEIGHT 36,640.00
 NET WEIGHT 13,140.00

SITE 01	TICKET 159635	SCALE OPERATOR CMORGAN	ORIGIN RhodeIsland
DATE IN 8/28/14	DATE OUT 8/28/14	TIME IN 11:00 am	TIME OUT 11:30 am
REFERENCE CYN	VEHICLE BRIGHTERRO	ROLL OFF	

INVOICE
 INBOUND

3447266

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
6.57	tn	Bulky Waste				
1.00		Environmental Fee				

Hours of Operation
 Monday-Friday 7am-4pm
 Saturday 7am-1pm
 Closed Sunday

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecutions.

SIGNATURE X

Form # 1035 WCL-Liner Re-order from BFI Print & Promotion Solutions 1.888.254.8784

Sunny Farms Landfill, LLC.

Waste Profile

12500 West County Road 18
Fostoria, OH 44830

Waste Profile

419-436-0505 – Phone
419-436-0555 – Fax

rev. 1/30/10

for SFL
use only

A. General Information

Generator: Bay Spring Realty
Facility Address: 90 Bay Spring Ave
City: Barrington County: Bristol State RI Zip 02806
Mailing Address (if different): 909 North Main Street
City: Providence County: Bristol State RI Zip 02904

Transporter: Cyn Oil Corporation
Contact: R. LaMothe Phone: (781) 341 - 1777
Address: 100 Tosca Drive
City: Stoughton State MA Zip 02072

B. Waste Information

Common Name for Waste: Non-RCRA, Non-DOT Regulated Waste (waste soils)
Detailed Description of Process Generating Waste (Describe each step in process)
Underground masonry structure removal as part of planned property maintenance.

List raw materials used: n/a

Is waste Dioxin bearing? Yes No Infectious? Yes No Radioactive? Yes No

Anticipated Volume: 40 cubic yards Frequency: one time Current Volume on site: 40 cubic yards

C. Physical Characteristics of Waste

COLOR:	IGNITABILITY:	CORROSIVITY (pH)	REACTIVITY:	PAINT FILTER TEST:
Brown, varies	Results Units Flash Point <u>>176</u> °F Flash Point _____ °C Limits >140°F > 60°C	Results Units pH <u>7.6</u> pH Units Limits 2 ≤ pH ≤ 12.5	Results Units Cyanide <u><10</u> mg/1(ppm) Sulfide <u><10</u> mg/1(ppm) Limits Cyanide 250 mg/1 Sulfide 500 mg/1	PASS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Mild <input type="checkbox"/> Strong Describe: _____	NOT DETERMINED <input type="checkbox"/>	NOT DETERMINED <input type="checkbox"/>	NOT DETERMINED <input type="checkbox"/>	NOT DETERMINED <input type="checkbox"/>

D. Waste Stream Composition:

(Must add up to 100%)

soil	50-75	%	_____	%
debris, primarily metal	50-25	%	_____	%
n/a	0-0	%	_____	%
n/a	0-0	%	_____	%

Is waste a commercial chemical product? Yes No

Is waste a spill residue from a virgin commercial chemical product? Yes No

What industry is waste generated from? _____

Was a representative sample provided which matches the description on this form? Yes No

If yes, attach MSDS
If yes, attach MSDS

E. RCRA Characteristics

1. Is this a US EPA Hazardous waste? Yes No
2. Is waste an EPA Listed hazardous waste? Yes No

3. Does waste contain solvents? Yes No
4. Does waste contain PCB's greater than 50 ppm or PCB's derived from a source greater than 50 ppm? Yes No

F. TCLP Not applicable, please see attached laboratory results.

TCLP Metals

	Results mg/l (ppm)	Regulatory Level mg/l (ppm)
Arsenic	_____	5.0
Barium	_____	100.0
Cadmium	_____	1.0
Chromium	_____	5.0
Lead	_____	5.0
Mercury	_____	0.2
Selenium	_____	1.0
Silver	_____	5.0

	Results mg/l (ppm)	Regulatory Level mg/l (ppm)
PCB's	_____	50.0

Pesticides & Herbicides

	Results mg/l (ppm)	Regulatory Level mg/l (ppm)
<u>TCLP Pesticides</u>		
Endrin	_____	0.02
Lindane (gBHC)	_____	0.4
Methoxychlor	_____	10.0
Toxaphene	_____	0.5
Chlordane	_____	0.03
Heptachlor	_____	0.008

	Results mg/l (ppm)	Regulatory Level mg/l (ppm)
<u>TCLP Pesticides</u>		
2, 4 -D	_____	10.0
2, 4, 5, TP (Silvex)	_____	1.0

G. TCLP Organics

TCLP Semi-volatiles

	Results mg/l (ppm)	Regulatory Level mg/l (ppm)
2 Methylphenol o-Cresol	_____	200.0
3 Methylphenol m-Cresol	_____	200.0
4 Methylphenol p-Cresol	_____	200.0
2, 4 -Dinitrotoluene	_____	0.13
Hexachlorobenzene	_____	0.13
Hexachloro - 1, 3 butadiene	_____	0.5
Hexachloroethane	_____	3.0
Nitrobenzene	_____	2.0
Pentachlorophenol	_____	100.0
Pyridine	_____	5.0
2, 4, 5 - Trichlorophenol	_____	400.0
2, 4, 6 - Trichlorophenol	_____	2.0

TCLP Volatile Compounds

	Results mg/l (ppm)	Regulatory Level mg/l (ppm)
Benzene	_____	0.5
Carbon Tetrachloride	_____	0.5
Chlorobenzene	_____	100.5
Chloroform	_____	6.5
1, 4 - Dichlorobenzene	_____	7.5
1, 2 - Dichloroethane	_____	0.5
1, 1 - Dichloroethylene	_____	0.7
Methyl ethyl ketone	_____	200.0
Tetrachloroethylene	_____	0.7
Trichloroethylene	_____	0.5
Vinyl Chloride	_____	0.2

H. Land Disposal Restrictions

1. Is waste subject to land ban? Yes No If yes, check the appropriate box.
 Restricted waste requires treatment Waste meets treatment standards Waste subject to variance.
 Effective until ____/____/____ (date).

I. Hazardous Characteristics

- Corrosive Toxic Oxidizer
- T.D. Toxic Acutely Toxic Peroxide
- Ignitable Poison Pyrophoric
- Reactive Water Reactive None of the above

TSCA Regulated Waste? Yes No
 US EPA Hazardous Waste? Yes No
 State of Ohio Hazardous Waste? Yes No
 CERCLA Hazardous Waste? Yes No

Can waste legally be disposed of in an Ohio Licensed Sanitary Landfill?
 Yes No

J. Shipping Information

Is waste a DOT Hazardous Material? Yes No
 Proper DOT Shipping Name:
Non-RCRA, Non-DOT Regulated Waste

DOT Hazard Class: n/a UN/NA #: n/a
 Reportable Quantity (RQ): n/a US EPA Haz Code(s): n/a
 Method of Shipment:
 Vac Tank Dump Trailer Drum (type size) _____
 Tank Truck Roll-Off Other _____
 Can waste legally be disposed of in State of Ohio Sanitary Landfill?

State Hazardous Waste Numbers:

n/a

Generator Certification

A representative sample of the waste stream was obtained using an EPA approved method and corresponds to the information on this profile. I hereby certify that the above and attached description is complete and accurate and that no deliberate or willful omissions of compositions or properties exists, and that all known or suspected hazards have been disclosed.

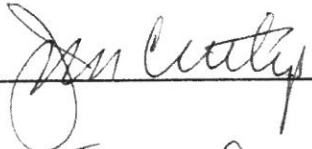
Jack Curtlip
 (Signature)
Jack Curtlip
 (Print Name)

7-31-14
 Date
Real Estate Manager
 Title

Generator Certification

I certify the following:

1. A representative sample of the waste stream was obtained using an EPA approved method and corresponds to the information on this profile.
2. This waste is non-hazardous in accordance with U.S. EPA and Ohio EPA regulations and laws and does not contain PCBs at a concentration greater than or equal to 50 ppm nor PCBs derived from a source greater than or equal to 50 ppm in concentration.
3. The above and attached description is complete and accurate and no deliberate or willful omission of compositions or properties exists and all known or suspected hazards have been disclosed.

Signature 
Print Name JACK Cutlip

Date 7-31-14
Title Real Estate Manager

Transporter Certification

I certify the following:

1. This waste is non-hazardous in accordance with U.S. EPA and Ohio EPA regulations and laws and does not contain PCBs at a concentration greater than or equal to 50 ppm nor PCBs derived from a source greater than or equal to 50 ppm in concentration.
2. The above and attached description is complete and accurate and no deliberate or willful omission of compositions or properties exists and all known or suspected hazards have been disclosed.
3. This waste will have the above described characteristics upon arrival at Sunny Farms Landfill, LLC, and the waste will not be altered or amended during transport.

Signature _____
Print Name _____

Date _____
Title _____



CYN P.O. Box 0119, 100 Tosca Drive, Stoughton, MA
 ENVIRONMENTAL Phone 781-341-1777 Fax 781- 781-297-7936
 SERVICES Visit our new website : www.cynenv.com

Robin Frazier

Quotation For Services

Attn: Mr. Jack Cutlip
 Bay Spring Realty
 909 N. Main St
 Providence, RI 02904

PHONE: jackc1026@gmail.com	RE: T&D Service	DATE: 8/5/2014
--------------------------------------	---------------------------	--------------------------

DESCRIPTION

Cyn Environmental Services will provide labor and equipment to complete the following services related to
 1. Soil transportation & disposal (loading of the soil will be provided by others onsite)
 2. Frac tank cleaning & rinseate disposal
 3. Rolloff container - non RCRA empty containers only for disposal to Champion, Brockton, MA

Location for services: 90 Bay Spring Ave, Barrington, RI 02806

Onsite contact: _____ cell # _____

Pricing:

Cistern soil disposal - est. 60 tons (Sunny Farms)	\$ 105.00 per ton (30 ton min. per load)
Rolloff container transportation (Non-RCRA empty cans)	\$ 600.00 fixed fee per container
Frac tank cleaning	\$ 2,500.00 fixed fee per frac tank
Vac truck for rinseate disposal (frac cleaning)	\$ 800.00 fixed fee transportation to facility
Disposal: gas/water/rinseate	\$ 1.50 per gallon
Disposal: sediment	\$ 295.00 per drum

Generator:

Generator/Responsible Party: _____
Mailing Address: _____
City, State & Zip Code: _____
Landline Phone #: _____

Notes:

A 10% fuel/insurance surcharge will be based on and applied to the invoice total.
 A representative for the generator must be onsite to sign all associated shipping/disposal documentation.
 If waste is off spec and requires outside disposal, you will be notified of additional charges.

Thank you for allowing Cyn the opportunity to submit this quotation to service your environmental needs. If you have any questions, please feel free to contact me at 781-886-1241.

If you would like us to schedule the above, please sign below, as well as the following **Terms and Conditions**, and fax back to me at 781-297-7936 for processing.

Terms: C.O.D. \$16,500.00 prepayment

This quotation is valid for thirty days. The quotation and associated work shall be subject to Cyn's attached Standard Terms and Conditions.

Accepted: By: _____ Title: _____ P.O. No.: _____ Please fax hard copy, if possible.	Quotation Prepared By: <i>Richard Mueda</i> Richard Mueda, Account Manager
--	---

Cyn Environmental Services' Standard Terms and Conditions

1. **Waste Characterization:** Except to the extent that Cyn characterizes customer's waste based upon analysis of samples provided by customer, customer shall fully inform Cyn of the chemical, physical, and hazardous characteristics of any waste to be managed pursuant to this quotation prior to Cyn's performance of any services hereunder.
2. **Scheduling:** Services shall be scheduled as indicated on the face hereof or by mutual agreement of the parties as expressed in writing. In the event performance of services by Cyn hereunder is delayed for more than two hours due to customer's action or inaction, Cyn shall be entitled to reasonable demurrage charges based upon number and type of vehicles and personnel provided.
3. **Compensation:** Customer shall compensate Cyn for services provided at the rates set forth on the face hereof. Unless otherwise provided, customer shall pay or reimburse Cyn for all state and local sales, use or excise taxes of any kind assessed on the services provided hereunder. If any charge provided for herein is not paid within 30 days of its invoice date, customer agrees to pay a finance charge of 1.5% per month, or the highest amount permitted by law, whichever is less, until paid. Customer also agrees, if its account is referred to an attorney for collection, to pay court costs plus reasonable attorney's fees.
4. **Customer's Warranty:** Customer represents and warrants to Cyn that:
 - (a) the physical and chemical composition of the waste transferred to Cyn hereunder shall conform within reasonable ranges to that of the samples or characterization provided to Cyn.
 - (b) except to the extent that Cyn takes responsibility for or directs customer in the packaging, marketing, and labeling of waste, customer shall package, mark and label waste in accordance with all applicable governmental laws, regulations and orders and;
 - (c) customer shall provide appropriate access to the work site and any equipment requiring servicing and shall provide the requisite qualified personnel to enable the timely performance by Cyn of the services contemplated hereunder.
5. **Cyn Warranty:**
 - (a) **Disposal Warranty:** Cyn represents and warrants to the customer that:
 - (1) Cyn understands the risks presented to persons, property, and the environment in the handling, transportation, storage, treatment, and disposal of wastes to be managed pursuant to this quotation.
 - (2) Cyn is qualified to perform the services hereunder and will do so in a safe and workmanlike manner and in compliance with all governmental laws, regulations, and orders and
 - (3) Cyn and any subcontractors employed by Cyn possess and will maintain for the duration of services hereunder all permits, licenses, certificates, and approvals necessary for the performance of services hereunder.
 - (b) **Service Warranty:** Cyn warrants that any service done by Cyn on the customer's equipment shall be free of defects in workmanship and materials. Cyn shall correct any failure to conform to the foregoing warranty of which it is notified in writing within 90 days of completion of the services. Such correction shall be limited to the performance of the services and/ or replacement of any equipment damages due to the negligence of Cyn. It is understood and agreed that, unless otherwise agreed to in writing by Cyn, Cyn assumes no responsibility with respect to the suitability of the customer's equipment or with respect to any latent defects in the same.
6. **Customer Indemnification:** Customer shall indemnify, save harmless and defend Cyn and its employees and subcontractors from and against all liabilities, claims, penalties, demands, fines forfeitures, causes of action, and the costs and expenses incident thereto (including, without limitation, costs of defense, settlement and reasonable attorney's fees) which they may incur, become responsible for or pay out as a result of death or bodily injury to any person, damage to any tangible property, adverse effects on the environment, or any violation of law arising directly or indirectly out of or in connection with customer's breach of any term or provision of this agreement or any negligent or willful act or omission of the customer, its employees or subcontractors.
7. **Cyn Indemnification:** Cyn shall indemnify and save customer (including its employees) harmless from and against any expense, loss or liability caused by or resulting from the failure of Cyn (or its subcontractors) to fully comply with applicable federal, state or local laws, statutes regulations, or governmental directives which regulate the handling, transportation, storage or disposal of the waste hereunder and from all claims, suits and liability for loss of or damage to any tangible property or persons (including death) caused by any negligent or willful act of Cyn or its subcontractors during the handling, collection, transportation, storage, or disposal of the waste hereunder. Following the loading of waste shall pass from customer to Cyn, and Cyn shall defend, indemnify and hold customer harmless for any subsequent damage, expense, loss, fines or other liability connected with the waste, including but not limited to adverse effects on the environment. Cyn and customer shall, in the event of liability arising out of their joint negligence or willful acts, be liable to the other and any damaged third party in proportion to their relative degree of fault.
8. **Liability:** Cyn, its contractors and suppliers of any tier, shall not be liable for loss of profits or revenue, loss of use of equipment or power system, cost of capital, cost of purchased or replacement power or temporary equipment (including additional expenses incurred in using existing facilities), claims of customers of the customer, or for any special indirect, incidental or consequential damages, excluding damages for adverse effects on the environment, whether based in contract or in tort, including negligence or strict liability.
9. **Non-Conforming Waste:** Cyn shall have the right to reject or revoke acceptance of any waste that does not materially conform to the characterization or sample provided to Cyn by customer. Cyn may reject waste at any time prior to accepting possession. If Cyn accepts waste hereunder, but determines within a reasonable time thereafter that the waste is non-conforming, Cyn may revoke acceptance of such non-conforming waste in which case customer shall pay, as applicable, (i) the cost of transportation to Cyn's facility; (ii) the cost of return transportation from Cyn's facility to customer's premises; and (iii) other unless customer and Cyn agree on alternative management of the waste by Cyn.

Revised 5/28/99

I agree and understand the above terms & conditions

APPROVAL SIGNATURE _____

DATE _____

10. **Force Majeure:** Delay or failure of either party in the performance of its obligations hereunder shall be excused if caused by circumstances beyond the control of the party affected, including, without limitation, acts of God, strikes, fire, flood, windstorm, action or request of governmental authority, and inability to obtain material, equipment or services, provided that a prompt notice of such delay or failure is given and the affected party diligently attempts to remove the cause.
11. **Subcontracts:** Cyn may at any time, upon written notice to customer, delegate orally or in writing the performance of the services hereunder, or any portion thereof; provided, however, that Cyn may not without the prior written consent of the customer, cause the disposal of waste materials at any facility other than that specified. Any such delegation shall not operate to relieve Cyn of its responsibilities hereunder, and notwithstanding any such delegation, Cyn shall remain obligated to customer in these undertakings. Except for the right to payment, neither party may at any time assign its rights under this agreement.
12. **Inconsistent Provisions:** In the event the customer submits purchase order for the services described on the face hereof and said purchase order contains terms and conditions inconsistent with the terms and conditions of this Quotation, the terms and conditions of this Quotation shall control.
13. **Billing and Due Dates:** Payment by the customer of the total contract price to Cyn shall be due in one of the following manners: (i) C.O.D.; (ii) Billed, Net 30 days.
14. **Disputed Bills:** All bills submitted pursuant to this agreement shall be deemed correct unless customer objects, in writing, within 5 days of receipt of the disputed invoice.
15. **Notices:** All notices pertaining to this agreement shall be in writing and shall be transmitted either by hand or through the United States Postal Service. The addresses set forth on the face hereof for the respective parties shall be the place where notices shall be sent, unless written notice of a change of address is given.
16. **Controlling Law:** The validity, interpretation, and performance of this agreement shall be controlled by and construed under the laws of the Commonwealth of Massachusetts.
17. **Waiver:** The failure of Cyn to object to or take affirmative action with respect to the conduct of the customer which is in violation of the terms of this agreement shall not be construed as a waiver of the violation or breach or wrongful conduct.
18. **Modification:** This writing contains the entire agreement of the undersigned parties. No representatives were made or relied upon by either party, other than those expressly set forth. No agent, employee, or other representative of either party is empowered to alter any of the above items unless done in writing and signed by an authorized representative of the respective parties.

Revised 3/23

I agree and understand the above terms & conditions

APPROVAL SIGNATURE _____

DATE _____

Mid-City Scrap Iron & Salvage

P.O. Box 157
548 State Road
Westport, MA 02790
(508) 675-7831 / (508) 675-2900

Purchase Ticket

Purchase Ticket # **32226**
Purchase Date **06/04/14**

Customer:

SHU1010-SHUSTER REALTY
909 NORTH MAIN STREET
PROVIDENCE, RI 02904

Account Rep
JOE

Terms **NET 30**
Payment Due **7/10/14**

Item Name	Order #	Gross	Tare	Net	Price	Total
Rec: 6/4/14	WT Ticket #S 88840			Cust Ref # ABC 188153		
SHEARING		49,360.000	33,320.000	16,040.000 LB	\$230.000000 GT	\$1,646.96

External Detail ID: **TRK 35**

Totals: 49,360.000 33,320.000 16 040.000 **\$1,646.96**

TRUCKING CHARGE
Note

TRUCKING CHARGE 1 @ 150.00

-\$150.00

\$1,496.96

Bay Spring Site

Prepared By **BRUCE**

6/10/2014 4:04:50PM



RHODE ISLAND RESOURCE RECOVERY CORPORATION

CENTRAL LANDFILL
65 SHUN PIKE
JOHNSTON, RI 02919

OFFICE 401.942.1430
FAX 401.946.5174

102221377
RECEIPT DOCUMENT NUMBER

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CALSON CORPORATION
34 OAKDALE AVENUE
JOHNSTON, RI02919-

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CALSON CORPORATION
34 OAKDALE AVENUE
JOHNSTON, RI02919-

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	MEASUREMENT	POUNDS	TONS	SCALE
5/30/14	08:24:28	LM	08:52:56	EF	GROSS:	88280	44.14	Scale 2
VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION TYPE	TARE:		37480	18.74	Scale 3
C56	Dump Truck	CALSON	Inbound	NET:		50800	25.40	

CODE	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
358	ALT CVR- NON HAZD PROCESSED SOIL	25.40	Ton		

RECEIVED
MAY 29 2014
CALSON CORP.

DECLARATION REGARDING WASTE DELIVERY

The undersigned declares, under the penalty of perjury that 100% of the solid waste delivered to the Central Landfill in the vehicle and on the date above was, was generated and collected in Rhode Island, is not Hazardous Waste and does not contain in excess of 20% recyclable material by weight, as defined by DEM regulation, and complies with all applicable laws and regulations.

Driver Signature:

Fri May 20 14 05:30:14 09:52:43

TOTAL AMOUNT



RHODE ISLAND RESOURCE RECOVERY CORPORATION

CENTRAL LANDFILL
65 SHUN PIKE
JOHNSTON, RI 02919

OFFICE 401.942.1430
FAX 401.946.5174

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RECEIPT DOCUMENT NUMBER

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CALSON CORPORATION
34 OAKDALE AVENUE
JOHNSTON, RI02919-

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	MEASUREMENT	POUNDS	TONS	SCALE
5/30/14	10:38:46	LM	10:39:00	LM	GROSS:	91980	45.99	Scale 2
VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION TYPE	TARE:		37480	18.74	P.T.
C56	Dump Truck	CALSON	Inbound	NET:		54500	27.25	

CODE	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
358	ALT CVR- NON HAZD PROCESSED SOIL	27.25	Ton		

RECEIVED
MAY 29 2014
CALSON CORP.

DECLARATION REGARDING WASTE DELIVERY

The undersigned declares, under the penalty of perjury that 100% of the solid waste delivered to the Central Landfill in the vehicle and on the date above was, was generated and collected in Rhode Island, is not Hazardous Waste and does not contain in excess of 20% recyclable material by weight, as defined by DEM regulation, and complies with all applicable laws and regulations.

Driver Signature:

Wendie

TOTAL AMOUNT



RHODE ISLAND RESOURCE RECOVERY CORPORATION

CENTRAL LANDFILL
65 SHUN PIKE
JOHNSTON, RI 02919

OFFICE 401.942.1430
FAX 401.946.5174

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RECEIPT DOCUMENT NUMBER

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CALSON CORPORATION
34 OAKDALE AVENUE
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CALSON CORPORATION
34 OAKDALE AVENUE
JOHNSTON, RI02919-

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	MEASUREMENT	POUNDS	TONS	SCALE
5/30/14	13:28:35	LM	13:28:46	LM	GROSS:	82600	41.30	Scale 2
VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION TYPE	TARE:		37480	18.74	P.T.
C56	Dump Truck	CALSON	Inbound	NET:		45120	22.56	
CODE	DESCRIPTION				QUANTITY	UNITS	UNIT PRICE	AMOUNT
358	ALT CVR- NON HAZD PROCESSED SOIL				22.56	Ton		

RECEIVED
MAY 29 2014
CALSON CORP.

DECLARATION REGARDING WASTE DELIVERY

The undersigned declares, under the penalty of perjury that 100% of the solid waste delivered to the Central Landfill in the vehicle and on the date above was, was generated and collected in Rhode Island, is not Hazardous Waste and does not contain in excess of 20% recyclable material by weight, as defined by DEM regulation, and complies with all applicable laws and regulations.

Driver Signature: _____

TOTAL AMOUNT



RHODE ISLAND RESOURCE RECOVERY CORPORATION

CENTRAL LANDFILL
65 SHUN PIKE
JOHNSTON, RI 02919

OFFICE 401.942.1430
FAX 401.946.5174

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RECEIPT DOCUMENT NUMBER

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CALSON CORPORATION
34 OAKDALE AVENUE
JOHNSTON, RI02919-

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CALS127200
CALSON CORPORATION
34 OAKDALE AVENUE
JOHNSTON, RI02919-

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	MEASUREMENT	POUNDS	TONS	SCALE	
6/2/14	06:58:50	LM	06:59:03	LM	GROSS:	81180	40.59	Scale 2	
						TARE:	37480	18.74	
						NET:	43700	21.85	
VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION TYPE						
C56	Dump Truck	CALSON	Inbound						
CODE	DESCRIPTION				QUANTITY	UNITS	UNIT PRICE	AMOUNT	
358	ALT CVR- NON HAZD PROCESSED SOIL				21.85	Ton			
DECLARATION REGARDING WASTE DELIVERY							TOTAL AMOUNT		
The undersigned declares, under the penalty of perjury that 100% of the solid waste delivered to the Central Landfill in the vehicle and on the date above was, was generated and collected in Rhode Island, is not Hazardous Waste and does not contain in excess of 20% recyclable material by weight, as defined by DEM regulation, and complies with all applicable laws and regulations.									
Driver Signature:									
Mon Jun 2014 06:02:14 06:58:54									

404 Front 3198 Rear 520

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number RIP000035748	2. Page 1 of 1	3. Emergency Response Phone (800) 899-1038	4. Manifest Tracking Number 013376602 JJK			
5. Generator's Name and Mailing Address Bay Spring Realty 909 North Main St Providence RI 02904 Generator's Phone: 401 265-1835				Generator's Site Address (if different than mailing address) Bay Spring Realty 90 Bay Spring Avenue Barrington RI 02806				
6. Transporter 1 Company Name Cyn Oil Corporation					U.S. EPA ID Number MAD082303777			
7. Transporter 2 Company Name					U.S. EPA ID Number			
8. Designated Facility Name and Site Address Trade Treatment and Recycling Northeast, LLC 136 Gracey Ave Menden CT 06451 Facility's Phone: 203 238 6751					U.S. EPA ID Number CTD021816889			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type			D019	D029	D040
X	RO NA3082, Hazardous waste, liquid, n.o.s. (Carbon Tetrachloride, Trichloroethylene) 9 PGIII	001	TT	3618	G	F002		
14. Special Handling Instructions and Additional Information (E-1) Solvent-impacted water, PO# 631080, ERG#171								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name XBAY SPRING REALTY BY JACK CULLI				Signature <i>[Signature]</i>		Month Day Year 8 28 14		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Robert C. Lignoulet				Signature <i>[Signature]</i>		Month Day Year 8 28 14		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____								
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month Day Year		



TRADEBE TREATMENT AND RECYCLING, LLC

Profile # _____

TRADEBE

Environmental Services, LLC

GENERATOR WASTE STREAM PROFILE SHEET

Process Code _____

Fax or email completed profile sheet to: TTR Fax: 219-397-6411 UIS Fax: 203-238-6744 usa.approvals@tradebe.com

A. GENERATOR INFORMATION:

MAILING OR SITE ADDRESS
USE CONTINUATION IF SITE & MAILING ADDRESSES ARE DIFFERENT

Generator #: _____
 Generator Name: Bay Spring Realty
 Generator Address: 909 North Main St.
 City: Providence State: RI Zip: 02904
 Contact Name: Mr. Jack Cutlip
 Generator Phone: (401) 265-1835
 Generator Fax: _____
 Generator Email: Jack1026@gmail.com
 Generator USEPA/Federal ID #: RIP00035748

CUSTOMER INFORMATION:

Customer #: _____
 Customer Name: Cyn Oil Corporation
 Customer Address: PO Box 0119
 City: Stoughton State: MA Zip: 02072
 Contact Name: Mike Mazzeo
 Customer Phone: (781) 341-1777 ext. 160
 Customer Fax: (781) 341-8867
 Customer Email: mmazzeo@cynenv.com
 Customer Service/Sales Rep: Lisa Massaro/Bob Cleary

If no ID number is the Generator a "Conditionally Exempt Small Quantity Generator?" Yes No
 Generator SIC (or NAIC) Code: _____ Generator State ID # (If applicable): _____
 Please check if generator has "No Canada Disposal" policy Yes No
 Please check if generator has "No Landfill" policy Yes No

B. WASTE STREAM INFORMATION:

Generator's Waste Name: Solvent-impacted water
 Original Process Generating Waste: Dewatering of a cistern structure

Is this waste exempt from RCRA regulation? Yes No
 If "yes" explain or cite regulation on continuation (Example HHW, CESQG): _____
 Current method of disposal: None
 Is this waste from a CERCLA cleanup site? Yes No
 Waste determination was made by: Testing Generator Knowledge MSDS Sample Other
 (Attach analytical, MSDS, or other supporting documentation used for waste determination)
 Does the Waste have any of the following characteristics? Yes (if yes check all that apply) No

Oxidizer Dioxin or Suspect Water Reactive Air Reactive Organic Peroxide
 Hexachrome Infectious Waste Radioactive Chelating Agent Lachrymator
 Explosive Shock Sensitive Polymerizer Pyrophoric Inhalation Hazard, Zone _____

C. GENERAL CHARACTERISTICS:

Color: Clear **Physical state @ 70 F** **Phases** **BTU/lb** **pH**

Odor: _____ 100% liquid aerosol single layer <3000(Ex: water) <2 (Acid) 10.0-12.5
 None _____ % solid powder double layer 3,000-5,000 2.0-4.0 >12.5 (Base)
 Mild _____ % sludge other >2 layers 5,000-10,000 4.0-10.0
 Strong _____ % debris _____ how many? >10,000 (Ex: oil)

Liquid Flashpoint: <73 F 73 to 99 F 100 to 139 F 140 to 200 F >200 F None
 Boiling Point N/A Specific Gravity: N/A Total Halogens: <1% Total Organic Carbon (TOC): <1% Viscosity: low

D. CHEMICAL COMPOSITION: Total of Maximum concentration must be > or = to 100%.

Constituents	Min%	Max%	ppm	Constituents	Min%	Max%	ppm
See attached analysis for constituents							

Does the Waste contain any of the following?

Metal Pieces: Yes No If yes, Describe Metal: _____
 Nitrocellulose: Yes No Metal Powder or Flake: Yes No Sharps: Yes No
 Isocyanates: Yes No Asbestos: (If yes, must be double bagged and wetted) Yes No
 Reactive cyanide: (If yes, indicate level in ppm) Yes No Range of reactive cyanide: _____
 Reactive sulfide: (If yes, indicate level in ppm) Yes No Range of reactive sulfide: _____
 PCBs: None 0-49 ppm 50-499 ppm 500+ ppm (If waste contains PCBs, certification form is required)

Does the waste contain Benzene? Yes No
 If yes, check all SIC codes that cover operations at your facility Yes No

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851 2861
 2865 2869 2873 2874 2875 2879 2891 2892 2893 2896 2899 2911 2999 3312 4953 4959 9511

If waste contains benzene and falls under one of the above SIC codes, Tradebe's benzene NESHAP form is required for each shipment

WASTE WATER ANALYSIS

Profile # _____

For waste streams being managed through United's wastewater treatment operations only:

Phases: Oil _____ % Water _____ % Interface _____ % Sediments _____ % DNAPL _____ %								
Petroleum Phase	Suspected Level	Actual Level	Aqueous Phase	Suspected Level	Actual Level	Aqueous Phase	Suspected Level	Actual Level
PCB			Copper			Cobalt		
Halogens			Cadmium			Mercury		
Solvents			Chromium			Arsenic		
Arsenic			Lead			Barium		
Cadmium			Nickel			Sulfides		
Chromium			Silver			Cyanides		
Lead			Zinc			Phenols		
			COD			Glycols		
			Iron			Selenium		

List Specific Solvents: see attached analysis

E. OTHER WASTE STREAM INFORMATION:

Is this waste a USED OIL per 40CFR PART 279?

Yes No

If Yes, does the total halogen content exceed 1,000 ppm?

Yes No

If Yes, can you identify the Chlorinated Constituent present in the oil?

Yes No

If Yes, can you rebut the presumption that this material is a Hazardous Waste?

Yes No

Is the Waste subject to RCRA 40 CFR Subpart CC controls (Are Volatile Organic Compounds >500ppmw)?

Yes No

Does the Waste contain any Class I or Class II ozone-depleting substances?

Yes No

Does waste contain EPCRA 313 chemicals identified in 40 CFR 372.65?

Yes No

If yes list in Additional Information on Continuation Page.

Does this waste contain any Chemicals of Interest listed in 6 CFR Part 27 Appendix A (Department of Homeland Security)? If yes please list in Additional Information on Continuation Page.

Yes No

F. RCRA CHARACTERIZATION:

Is this a USEPA Hazardous Waste as defined in 40 CFR 261.3?

Yes No

Is this a Universal Waste per 40 CFR part 273?

Yes No

Please list any characteristic codes (D001-D043): D019, D029, D040

Does the waste contain UHCs above treatment standards levels? (40 CFR 268.48, 268.7)

Yes No

If yes identify those chemicals in Appendix I - Underlying Hazardous Constituents

Please list any applicable "F" or "K" codes: F002

Please list any applicable "U" or "P" codes: N/A

Please list any state regulated codes: N/A

G. SHIPPING VOLUME & FREQUENCY:

Bulk Liquid (tanker) +/- 3,000 gal. Approximately how many gallons? Bulk Solids(roll-off box, vacuum box, etc)

Cubic Yard Boxes Totes _____ size in gallons Metal Plastic

Skid Other If other, please describe: _____

Drums (Specify size) 85 55 30 15 5 Metal Plastic Fiberboard

Is waste a combination package (e.g. Drum with inner containers or skid with cases of consumer products) Yes No

Shipping Frequency: Number of Units 1 Per Month Quarter Year Other One time

H. DOT SHIPPING INFORMATION

Is this a U.S. Department of Transportation (USDOT) Hazardous Material?

Yes No

Shipping Name per 49 CFR 172.101 Hazardous Materials Table: Hazardous waste liquid, n.o.s.

Hazard Class or Division: 9 UN/NA #: 3082 Packing Group: I II III ERG #: _____

Technical descriptors if required: N/A RQ if required: D040 - 100 lbs.

DOT Special Permit that may apply (Include copy of permit): N/A Inhalation Hazard: Zone N/A

I. GENERATOR CERTIFICATION:

I agree by affixing my authorized signature that I hereby certify that the above and attached description is complete and accurate and that no omissions of characteristics, composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that each sample provided to Tradebe is representative of the waste material described above and give Tradebe permission and consent to make amendments and corrections and that I am an authorized agent of the Generator.

Name(print): Jack Cutlip Title: Rg. Manager

Signature: [Signature] Date: _____

INTERNAL USE ONLY: Please indicate which Tradebe Facility(s) are being utilized for this Profile

- TTR, LLC, East Chicago, IN
- TTR of TN, LLC, Millington, TN
- United Oil Recovery, Inc Meriden, CT
- Bridgeport United Recycling Bridgeport, CT
- Zecco Northboro, MA
- United Oil Recovery, Inc Newington, NH
- ECC Stoughton, MA
- Norlite Corp Cohoes, NY



TRADEBE

Environmental Services, LLC™

GENERATOR WASTE STREAM PROFILE ADDITIONAL INFORMATION SHEET

PLEASE PRINT IN INK OR TYPE

Site Address (if different from generator address):

Site Name (if different from generator): _____
Pick-up Address: 90 Bay Spring Avenue
Additional Location Identification: _____
City: Barrington State: RI Zip: 02806
Contact Name: _____
Contact Phone: _____
Contact Fax: _____
Generator USEPA/Federal ID # (if different than generators): _____

Facility Restrictions (if any): _____

B. WASTE STREAM INFORMATION CONTINUATION

Exemption: The waste described on this profile sheet is exempt/excluded from RCRA regulation under:
(Cite regulation exempting waste from RCRA) _____

D. CHEMICAL COMPOSITION CONTINUATION: Total of Maximum concentration must be > or = to 100%.

Table with 9 columns: Constituents, Min%, Max%, ppm, Constituents, Min%, Max%, ppm. Handwritten entry: See Attached analysis

G. R.C.R.A. CHARACTERIZATION CONTINUATION:

Additional characteristic codes (D001-D043): If waste carries a characteristic code, please check all applicable Underlying Hazardous Constituents in Appendix I: NA

List additional F or K codes: NA

List additional U or P codes: NA

Additional State codes if required: NA

ADDITIONAL INFORMATION

(Use this space to include any other information about this waste)

NA

WASTE WATER ANALYSIS

Profile # _____

For waste streams being managed through United's wastewater treatment operations only:

Phases: Oil _____ % Water _____ % Interface _____ % Sediments _____ % DNAPL _____ %								
Petroleum Phase	Suspected Level	Actual Level	Aqueous Phase	Suspected Level	Actual Level	Aqueous Phase	Suspected Level	Actual Level
PCB			Copper			Cobalt		
Halogens			Cadmium			Mercury		
Solvents			Chromium			Arsenic		
Arsenic			Lead			Barium		
Cadmium			Nickel			Sulfides		
Chromium			Silver			Cyanides		
Lead			Zinc			Phenols		
			COD			Glycols		
			Iron			Selenium		

List Specific Solvents: see attached analysis

E. OTHER WASTE STREAM INFORMATION:

Is this waste a USED OIL per 40CFR PART 279? Yes No

If Yes, does the total halogen content exceed 1,000 ppm? Yes No

If Yes, can you identify the Chlorinated Constituent present in the oil? Yes No

If Yes, can you rebut the presumption that this material is a Hazardous Waste? Yes No

Is the Waste subject to RCRA 40 CFR Subpart CC controls (Are Volatile Organic Compounds >500ppmw)? Yes No

Does the Waste contain any Class I or Class II ozone-depleting substances? Yes No

Does waste contain EPCRA 313 chemicals identified in 40 CFR 372.65? Yes No

If yes list in Additional Information on Continuation Page.

Does this waste contain any Chemicals of Interest listed in 6 CFR Part 27 Appendix A (Department of Homeland Security)? If yes please list in Additional Information on Continuation Page. Yes No

F. RCRA CHARACTERIZATION:

Is this a USEPA Hazardous Waste as defined in 40 CFR 261.3? Yes No

Is this a Universal Waste per 40 CFR part 273? Yes No

Please list any characteristic codes (D001-D043): D019, D029, D040

Does the waste contain UHCs above treatment standards levels? (40 CFR 268.48, 268.7) Yes No

If yes identify those chemicals in Appendix I - Underlying Hazardous Constituents

Please list any applicable "F" or "K" codes: F002

Please list any applicable "U" or "P" codes: N/A

Please list any state regulated codes: N/A

G. SHIPPING VOLUME & FREQUENCY:

Bulk Liquid (tanker) +/- 3,000 gal. Approximately how many gallons? Bulk Solids(roll-off box, vacuum box, etc)

Cubic Yard Boxes Totes _____ size in gallons Metal Plastic

Skid Other If other, please describe: _____

Drums (Specify size) 85 55 30 15 5 Metal Plastic Fiberboard

Is waste a combination package (e.g. Drum with inner containers or skid with cases of consumer products) Yes No

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Name(print): Jack Cutlip Title: Rg. manager

Signature: [Signature] Date: 7/21/14

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- ECC Stoughton, MA
- TTR of TN, LLC, Millington, TN
- Zecco Northboro, MA
- United Oil Recovery, Inc Meriden, CT
- United Oil Recovery, Inc Newington, NH
- Norlite Corp Cohoes, NY

APPENDIX H

Photo Documentation



1) AOC-1: UST Area. View of UST and associated parts.



2) AOC-1: UST Area. View of final extent of UST excavation.



3) AOC-2: RCA-1 Excavation.



4) AOC-3: RCA-3 Excavation.



5) AOC-4: Waste Disposal Area No. 1. View of debris observed in Waste Disposal Area No. 1.



6) AOC-4: Waste Disposal Area No. 1. View of debris observed in Waste Disposal Area No. 1.



7) AOC-5: Cistern.



8) AOC-5: Cistern. View of Cistern excavation in progress.



9) AOC-6: Drum Storage Area/Benzol House. View of debris in AOC-6 during excavation activities.



10) AOC-6: Drum Storage Area/Benzol House. View of AOC-6 excavation in progress.



11) AOC-7: Waste Disposal Area No. 2. View of piping running through Waste Disposal Area No. 2.



12) AOC-7: Waste Disposal Area No. 2. View of debris observed in Waste Disposal Area No. 2.



13) AOC-8: Acid Storage Tanks. View of concrete tank cradles in AOC-8.



14) AOC-8: Acid Storage Tanks. View of test pitting activities in the vicinity of the Acid Storage Tanks.



15) AOC-9: Solvent Storage Tanks. View of concrete tank cradles in AOC-9.



16) AOC-9: Solvent Storage Tanks. View of test pitting activities in the vicinity of the Acid Storage Tanks.



17) AOC-10: Coating Room. View of concrete tank cradles in the vicinity of the Coating Room.



18) AOC-10: Coating Room. View of test pitting activities in AOC-10.



19) AOC-11: Acetone Tank. View of test pitting activities in AOC-11.



20) AOC-11: Acetone Tank. View of test pitting activities in AOC-11.

APPENDIX I

Additional Limitations

ADDITIONAL LIMITATIONS

1. The observations described in this Report were made under the conditions stated herein. The conclusions presented in the Report are based solely upon the services described therein and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in the Report was carried out in accordance with our Proposal and Associated Statement of Standard Terms and Conditions.
2. In preparing the Report, Resource Controls has relied on certain information provided by state and local officials and other parties referenced therein and on information contained in the files of state and/or local agencies available to Resource Controls at the time of the site evaluation. Although there may have been some degree of overlap in the information provided by the various sources, Resource Controls did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.
3. Observations and explorations were made of the site as indicated within the Report. Where access to portions of the site were unavailable or limited, Resource Controls renders no opinion as to the presence of hazardous materials, asbestos, lead paint or oil, or to the presence of indirect evidence relating to the same, in that portion of the site or structure. In addition, Resource Controls renders no opinion as to the presence of hazardous materials, lead paint, oil or asbestos or to the presence of indirect evidence relating to hazardous materials, oil, lead paint or asbestos, where direct observation of the interior walls, floor, or ceiling of a structure on a site was obstructed by objects or coverings on or over these structures.
4. The purpose of this Report was to assess the physical and chemical characteristics of the subject site with respect to the presence in the environment of hazardous materials, lead paint, asbestos or oil. No specific attempt was made to check the regulatory compliance of present or past owners or operators of the site with federal, state or local laws and regulations, environmental or otherwise.
5. Except as noted within the text of this Report, no quantitative laboratory testing was performed as part of this evaluation. Where such analyses have been conducted by an outside laboratory, Resource Controls has relied upon the data provided and has not conducted an independent third party evaluation of the reliability of this data.
6. Chemical analyses performed for specific parameters during the course of studies have been used, in part, as a basis for determining the areas of environmental concern. Additional chemical constituents not searched for may be present at the site. Defined areas of environmental concern do not cover the potential additional constituents.
7. Governmental agencies' interpretations, requirements and enforcement policies may impact the type and scope of any site remediation required for a site. In addition, statutes, rules and regulations may be legislatively changed and inter-agency and intra-agency policies may be changed from present practice. If such changes occur, it may be necessary to re-evaluate their impact on the scope of any site remediation required.
8. Any water level readings made in the test pits, borings and/or wells and were made under the conditions stated on the logs. This data may have been reviewed and interpretations have been made in the text of this Report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall, temperature and other factors different from those prevailing at the time measurements were made.
9. Any and all cost estimates or opinions presented are based on Resource Controls opinion of most probable costs and are based on information available at the time of the estimate. Such estimates may vary from actual contract values based on many market and engineering variables beyond the control of Resource Controls. No warranty or guarantee is offered on the accuracy or validity of the estimates provided.