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*Client Advocacy
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COMPLIANCE GROUNDWATER MONITORING REPORT

**90 Bay Spring Avenue
Map 2/Lot 154
Barrington, Rhode Island
RIDEM File No. SR-01-0106**

Prepared for:

Bay Spring Realty Company
909 North Main Street
Providence, Rhode Island 02904

Prepared by:

Resource Controls,
a division of Environmental Strategies &
Management, Inc.

474 Broadway
Pawtucket, Rhode Island 02860

Pawtucket, RI • Norton, MA • Fall River, MA

April 5, 2016

April 5, 2016

Mr. Nicholas Noons, Sanitary Engineer
RI Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, RI 02908-5767

SUBJECT: Compliance Groundwater Monitoring report

Bay Spring Realty Company
90 Bay Spring Avenue (Map 2/Lot 154)
Barrington, Rhode Island
RIDEM File No. SR-01-0106

Dear Mr. Noons:

On behalf of Bay Spring Realty Company, Resource Controls, a division of Environmental Strategies & Management, Inc. (Resource Controls) has prepared this Compliance Groundwater Monitoring Report for the property located at 90 Bay Spring Avenue, Barrington, Rhode Island (the Site) – RIDEM File No. SR-01-0106 (Former Case No. 2013-024). A Locus Map showing the location of the Site relative to regional geographic features is included as Attachment A, and a Site Plan including sample locations and relevant historic and current Site features is attached as Attachment B.

FIELD ACTIVITIES

On March 29, 2016, groundwater was gauged to the nearest 0.01 foot using an electronic interface probe in monitoring wells MW-3, MW-5, MW-104, MW-105 and MW-106; and groundwater samples were collected from monitoring wells MW-3, MW-5, and MW-105. No light non-aqueous phase liquid (LNAPL) was detected. Fluid level measurements are summarized on the well monitoring form included in Attachment C. The inferred direction of groundwater flow is to the south/southeast (water table elevation contours modeled from the March 29, 2016 gauging event are included on the Site Plan – Figure 2/Attachment B). Groundwater samples were collected by low flow sampling methodology. The samples were collected in clean, preserved glassware, labeled in the field, placed on ice and submitted under standard chain-of custody protocol to ESS Laboratory (ESS) of Cranston, Rhode Island. The samples were analyzed for VOCs.

ANALYTICAL RESULTS

Laboratory analysis of groundwater samples collected from MW-3, MW-5 and MW-105 indicated concentrations of VOC compounds above the laboratory reporting limits but below the RIDEM GA Groundwater Objectives. Trichloroethene was detected in MW-105 below the applicable RIDEM GA Groundwater Objectives. Since the RIDEM does not have promulgated groundwater standards intended to be protective of surface water, Resource Controls compared the TCE concentration to the Massachusetts Contingency Plan (MCP) Method 1 GW-3 Groundwater Standards (TCE – 5,000 ug/l). TCE concentrations at the Site in groundwater were reported below these standards.

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The groundwater analytical results are summarized in Table 1 included as Attachment D, and a copy of the laboratory report is included in Attachment E.

Laboratory analytical results indicate that concentrations of contaminants detected in groundwater from each well are similar to the previous sampling event conducted in December of 2015, with the exception of an increase in 1,1,1-trichloroethane concentrations in MW-3. The level of 1,1,1-trichloroethane detected is still below RIDEM GA Groundwater Objectives.

CONCLUSIONS & RECOMMENDATIONS

Based on the results of the March 29, 2016 groundwater gauging and sampling efforts, Resource Controls offers the following conclusions:

- Groundwater laboratory analytical results for the groundwater sampling event indicated the following:
 - Trichloroethene was detected in MW-105 below the RIDEM GA Groundwater Objectives, and below the MCP GW-3 Groundwater Standards (intended to be protective of surface water bodies).
 - Other VOC's detected in MW-3, MW-5 and MW-105 were detected above laboratory reporting limits, but below applicable RIDEM GA Groundwater Objectives.

Resource Controls does not suggest a change to the previously recommended remedial alternative – the implementation of 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. The institutional controls shall prohibit the construction of any buildings within the waterfront areas of the Site (75-foot CRMC Setback) in which residual VOC contamination has been identified in groundwater (the area of the former cistern and downgradient, and the area of MW-104 and MW-3 and downgradient), unless the proposed development/construction includes a RIDEM approved vapor intrusion mitigation technology (e.g. sub-slab depressurization system, vapor barriers, etc.).

Compliance groundwater monitoring for VOCs has been conducted in December 2015 and March 2016. In accordance with the RIDEM Program Letter dated February 4, 2016, an additional round of groundwater monitoring shall be conducted in June 2016.

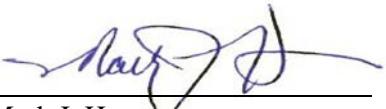
LIMITATIONS

This report 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. Conclusions stated herein are based on the available information summarized herein and refer only to the 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.

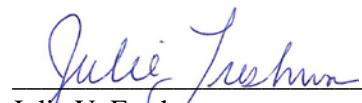
Please do not hesitate to contact the undersigned if additional information is needed.

Very truly yours,

RESOURCE CONTROLS, a division of Environmental Strategies & Management, Inc.



Mark J. House
Vice President and Senior Scientist



Julie V. Freshman
Senior Environmental Scientist

- Attachments:
- | | |
|--------------|------------------------|
| Attachment A | Locus Map |
| Attachment B | Site Plan |
| Attachment C | Well Monitoring Form |
| Attachment D | Tables |
| Attachment E | Laboratory Report |
| Attachment F | Additional Limitations |

cc: Bay Spring Realty Company

ATTACHMENT A

Locus Map



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

ATTACHMENT B

Site Plan

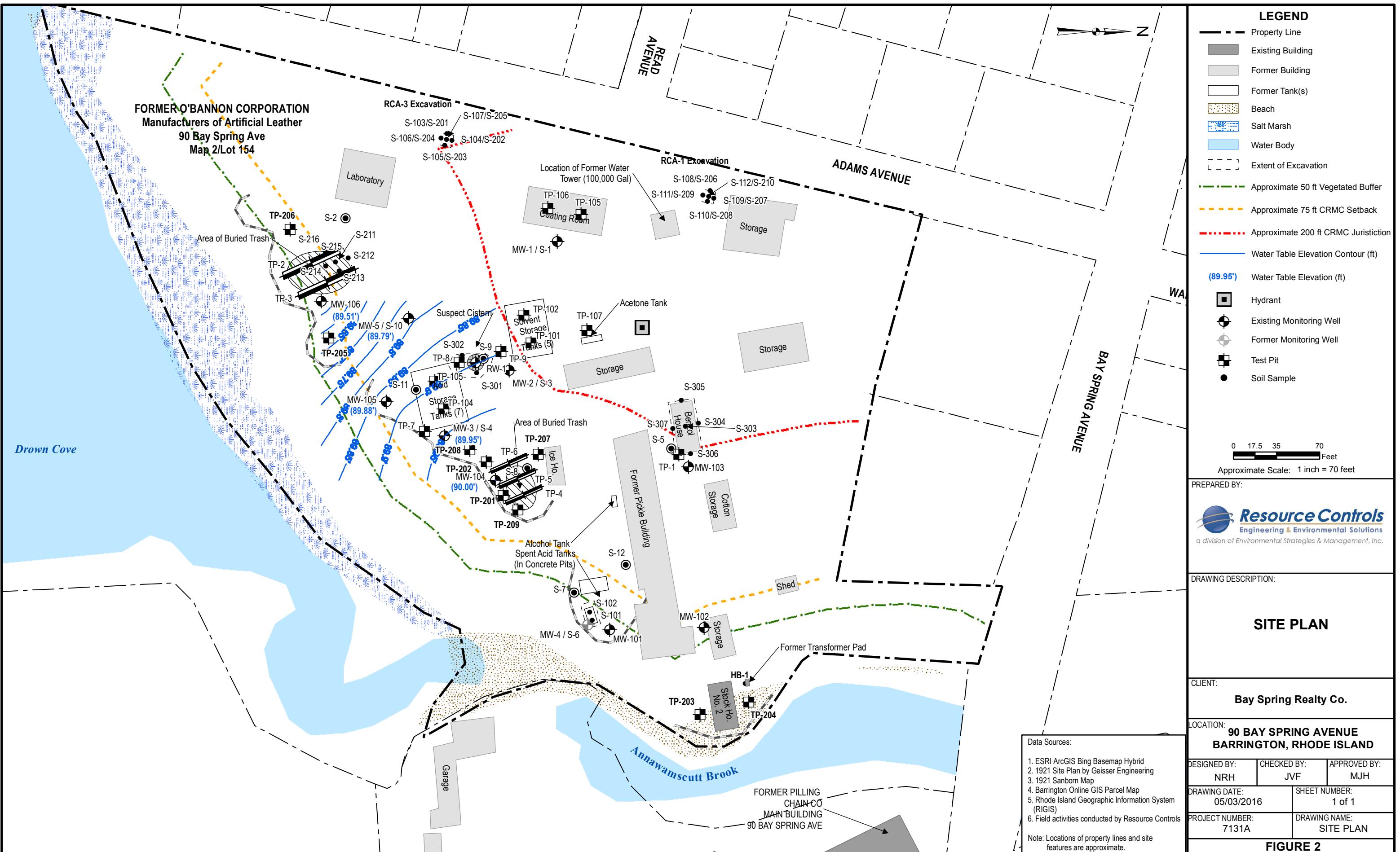


FIGURE 2

ATTACHMENT C
Well Monitoring Form

WELL MONITORING FORM

Project: Bay Spring, Barrington

Project No.: 7131A

Location: 90 Bay Spring Avenue

Date: 03/29/16

Operator: BPC

Method: Interface Probe

Well ID	Top of Casing Elevation	Depth to LNAPL (feet)	Depth to Water (feet)	Depth to Bottom (feet)	LNAPL 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	NM	NM	ND	NA	NA	NA	NA
MW-2	101.97	ND	NM	NM	ND	NA	NA	NA	NA
MW-3	95.66	ND	5.71	13.13	ND	NA	NA	NA	89.95
MW-5	98.61	ND	8.82	14.30	ND	NA	NA	NA	89.79
MW-101	96.29	ND	NM	NM	ND	NA	NA	NA	NA
MW-102	97.05	ND	NM	NM	ND	NA	NA	NA	NA
MW-103	100.98	ND	NM	NM	ND	NA	NA	NA	NA
MW-104	96.20	ND	6.20	NM	ND	NA	NA	NA	90.00
MW-105	97.18	ND	7.30	12.99	ND	NA	NA	NA	89.88
MW-106	97.50	ND	7.99	NM	ND	NA	NA	NA	89.51

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

NOTES:

ATTACHMENT D

Tables

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

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

NOTES:

ug/L = micrograms per liter

mg/L = milligrams per liter.

NS = No standard promulgated.

ND = Not detected

Bold concentrations exceed laboratory reporting limits.

Bold concentrations exceed concentrations exceed laboratory reporting limits.
Red concentrations exceed the applicable RIDFM GA Groundwater Objectives.

Monitoring well destroyed during excavation activity

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

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

Sample Identification Date Sampled	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				RIDEML Groundwater Objectives GA Objectives	GB UCLs
	MW-103 6/6/2014	MW-104 12/17/2015	MW-104 6/6/2014	MW-104 10/9/2014	MW-104 4/9/2015	MW-104 7/9/2015	MW-104 12/17/2015	MW-3 11/26/2012	MW-3 2/13/2013	MW-3 6/6/2014	MW-3 10/9/2014	MW-3 4/9/2015	MW-3 7/9/2015	MW-3 12/17/2015	MW-3 3/29/2016	MW-2 11/26/2012	MW-2 6/6/2014	MW-1 11/26/2012	MW-1 6/6/2014			
VOLATILE ORGANIC COMPOUNDS (ug/L)																						
1,1,1-Trichloroethane	--	<1.0	2.7	--	--	2.7	24.1	1.2	--	<1.0	2.1	<1.0	2.1	5.5	11	<0.1	<1.0	<1.0	--	200	68,000	
1,1,2-Trichloroethane	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	<1.0	--	5	NS	
1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS	
1,1-Dichloroethane	--	<1.0	1.2	--	--	4.0	9.8	3.0	--	<1.0	1.8	<1.0	<1.0	6.0	4.3	<0.1	<1.0	<1.0	--	NS	NS	
1,1-Dichloroethene	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	<1.0	--	7	23,000	
1,2,4-Trimethylbenzene	--	<1.0	62.7	--	--	48.4	3.7	1.0	--	4.1	<1.0	<1.0	2.3	<1.0	<1.0	<0.1	<1.0	<1.0	--	NS	NS	
1,2-Dibromo-3-Chloropropane	--	<5.0	<5.0	--	--	<5.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.5	<5.0	<5.0	--	0.2	NS	
1,2-Dibromomethane (EDB)	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	<1.0	--	0.05	NS	
1,2-Dichloroethane	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	<1.0	--	5	670,000	
1,3,5-Tri methylbenzene	--	<1.0	285	--	--	84.6	12.2	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	NS	NS	
2-Butanone	--	<10	<10	--	--	<10	<10	--	<10	<10	<10	<10	<10	<10	<10	<1.0	<10	<10	--	NS	NS	
2-Hexanone	--	<10	<10	--	--	<10	<10	--	<10	<10	<10	<10	<10	<10	<10	<1.0	<10	<10	--	NS	NS	
4-Isopropylolene	--	<1.0	8.0	--	--	5.2	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	NS	NS	
4-Methyl-2-Pentanone	--	<25	<25	--	--	<25	<25	<25	--	<25	<25	<25	<25	<25	<25	<25	<25	<25	--	NS	NS	
Acetone	--	<10	<10	--	--	<10	<10	102	--	<10	<10	<10	<10	<10	<10	10.4	<10	<10	--	NS	NS	
Benzene	--	<1.0	<1.0	--	--	<1.0	<1.0	1.1	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	5	18,000	
Carbon Disulfide	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	NS	NS		
Carbon Tetrachloride	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	5	NS		
Chloroethane	--	<2.0	<2.0	--	--	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.2	<2.0	<2.0	--	NS	NS		
Chloroform	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	NS	NS		
cis-1,2-Dichloroethene	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	70	69,000		
Ethylbenzene	--	<1.0	4.4	--	--	6.0	1.4	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	700	16,000	
Isopropylbenzene	--	<1.0	3.4	--	--	3.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	NS	NS	
Methylene Chloride	--	<2.0	<2.0	--	--	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.2	<2.0	<2.0	--	5	NS		
Naphthalene	--	<1.0	2.6	--	--	2.4	<1.0	<1.0	--	<1.0	1.6	<1.0	1.3	<1.0	<1.0	<0.1	<1.0	<1.0	--	100	NS	
m-Propylbenzene	--	<1.0	3.2	--	--	2.3	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	NS	NS	
sec-Butylbenzene	--	<1.0	1.8	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	NS	NS	
Tetrachloroethene	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	5	NS		
Toluene	--	<1.0	<1.0	--	--	1.3	<1.0	1.1	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	1,000	21,000	
Trichloroethene	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	5	87,000		
Vinyl Chloride	--	<1.0	<1.0	--	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<1.0	<1.0	--	2	NS		
Xylene O	--	<1.0	5.2	--	--	5.9	<1.0	2.2	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	--	10,000	NS	
Xylene P,M	--	<2.0	27																			

ATTACHMENT E
Laboratory Reports



CERTIFICATE OF ANALYSIS

Julie Freshman
Resource Controls
474 Broadway
Pawtucket, RI 02860-1377

RE: Bay Spring Ave (7131A)
ESS Laboratory Work Order Number: 1603703

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, Apr 05, 2016

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 Ave

ESS Laboratory Work Order: 1603703

SAMPLE RECEIPT

The following samples were received on March 29, 2016 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>
1603703-01	MW-105	Ground Water	8260B
1603703-02	MW-3	Ground Water	8260B
1603703-03	MW-5	Ground Water	8260B



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

PROJECT NARRATIVE

8260B Volatile Organic Compounds

CC63041-BS1	<u>Blank Spike recovery is below lower control limit (B-).</u> 2,2-Dichloropropane (68% @ 70-130%), Bromomethane (27% @ 70-130%)
CC63041-BSD1	<u>Blank Spike recovery is below lower control limit (B-).</u> 2,2-Dichloropropane (69% @ 70-130%), Bromomethane (30% @ 70-130%)
CC63132-BS1	<u>Blank Spike recovery is below lower control limit (B-).</u> Bromomethane (47% @ 70-130%)
CC63132-BSD1	<u>Blank Spike recovery is below lower control limit (B-).</u> Bromomethane (60% @ 70-130%)
CZC0536-CCV1	<u>Continuing Calibration %Diff/Drift is below control limit (CD-).</u> Bromomethane (69% @ 30%), Tertiary-amyl methyl ether (33% @ 30%)
CZC0555-CCV1	<u>Continuing Calibration %Diff/Drift is below control limit (CD-).</u> Bromomethane (54% @ 30%)

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 Ave

ESS Laboratory Work Order: 1603703

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

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Bay Spring Ave

Client Sample ID: MW-105

Date Sampled: 03/29/16 12:45

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1603703

ESS Laboratory Sample ID: 1603703-01

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,1,1-Trichloroethane	0.0046 (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,1-Dichloroethane	0.0017 (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/31/16 12:39	CZC0536	CC63041
1-Chlorohexane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
2-Butanone	ND (0.0100)		8260B		1	03/31/16 12:39	CZC0536	CC63041
2-Chlorotoluene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
2-Hexanone	ND (0.0100)		8260B		1	03/31/16 12:39	CZC0536	CC63041
4-Chlorotoluene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Acetone	ND (0.0100)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Benzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Bromobenzene	ND (0.0020)		8260B		1	03/31/16 12:39	CZC0536	CC63041



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Bay Spring Ave

Client Sample ID: MW-105

Date Sampled: 03/29/16 12:45

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1603703

ESS Laboratory Sample ID: 1603703-01

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Bromodichloromethane	ND (0.0006)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Bromoform	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Bromomethane	ND (0.0020)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Carbon Disulfide	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Chlorobenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Chloroethane	ND (0.0020)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Chloroform	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Chloromethane	ND (0.0020)		8260B		1	03/31/16 12:39	CZC0536	CC63041
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Dibromochloromethane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Dibromomethane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Diethyl Ether	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Di-isopropyl ether	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Ethylbenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Hexachloroethane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Isopropylbenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Methylene Chloride	ND (0.0020)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Naphthalene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
n-Butylbenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
n-Propylbenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
sec-Butylbenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Styrene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
tert-Butylbenzene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Tetrachloroethene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Bay Spring Ave

Client Sample ID: MW-105

Date Sampled: 03/29/16 12:45

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1603703

ESS Laboratory Sample ID: 1603703-01

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Toluene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Trichloroethene	0.0048 (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Vinyl Acetate	ND (0.0050)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Vinyl Chloride	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Xylene O	ND (0.0010)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Xylene P,M	ND (0.0020)		8260B		1	03/31/16 12:39	CZC0536	CC63041
Xylenes (Total)	ND (0.0020)		8260B		1	03/31/16 12:39		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	94 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	106 %		70-130
<i>Surrogate: Toluene-d8</i>	95 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Bay Spring Ave

Client Sample ID: MW-3

Date Sampled: 03/29/16 12:55

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1603703

ESS Laboratory Sample ID: 1603703-02

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,1,1-Trichloroethane	0.0110 (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,1-Dichloroethane	0.0043 (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/31/16 13:05	CZC0536	CC63041
1-Chlorohexane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
2-Butanone	ND (0.0100)		8260B		1	03/31/16 13:05	CZC0536	CC63041
2-Chlorotoluene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
2-Hexanone	ND (0.0100)		8260B		1	03/31/16 13:05	CZC0536	CC63041
4-Chlorotoluene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Acetone	ND (0.0100)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Benzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Bromobenzene	ND (0.0020)		8260B		1	03/31/16 13:05	CZC0536	CC63041



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Bay Spring Ave

Client Sample ID: MW-3

Date Sampled: 03/29/16 12:55

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1603703

ESS Laboratory Sample ID: 1603703-02

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Bromodichloromethane	ND (0.0006)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Bromoform	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Bromomethane	ND (0.0020)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Carbon Disulfide	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Chlorobenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Chloroethane	ND (0.0020)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Chloroform	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Chloromethane	ND (0.0020)		8260B		1	03/31/16 13:05	CZC0536	CC63041
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Dibromochloromethane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Dibromomethane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Diethyl Ether	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Di-isopropyl ether	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Ethylbenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Hexachloroethane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Isopropylbenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Methylene Chloride	ND (0.0020)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Naphthalene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
n-Butylbenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
n-Propylbenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
sec-Butylbenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Styrene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
tert-Butylbenzene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Tetrachloroethene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Bay Spring Ave

Client Sample ID: MW-3

Date Sampled: 03/29/16 12:55

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1603703

ESS Laboratory Sample ID: 1603703-02

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Toluene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Trichloroethene	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Vinyl Acetate	ND (0.0050)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Vinyl Chloride	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Xylene O	ND (0.0010)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Xylene P,M	ND (0.0020)		8260B		1	03/31/16 13:05	CZC0536	CC63041
Xylenes (Total)	ND (0.0020)		8260B		1	03/31/16 13:05		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	97 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	105 %		70-130
<i>Surrogate: Toluene-d8</i>	94 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Bay Spring Ave

Client Sample ID: MW-5

Date Sampled: 03/29/16 14:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1603703

ESS Laboratory Sample ID: 1603703-03

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,2,4-Trimethylbenzene	0.0011 (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,3,5-Trimethylbenzene	0.0257 (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/31/16 20:17	CZC0555	CC63132
1-Chlorohexane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
2-Butanone	ND (0.0100)		8260B		1	03/31/16 20:17	CZC0555	CC63132
2-Chlorotoluene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
2-Hexanone	ND (0.0100)		8260B		1	03/31/16 20:17	CZC0555	CC63132
4-Chlorotoluene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
4-Isopropyltoluene	0.0064 (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Acetone	ND (0.0100)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Benzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Bromobenzene	ND (0.0020)		8260B		1	03/31/16 20:17	CZC0555	CC63132



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Bay Spring Ave

Client Sample ID: MW-5

Date Sampled: 03/29/16 14:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1603703

ESS Laboratory Sample ID: 1603703-03

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Bromodichloromethane	ND (0.0006)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Bromoform	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Bromomethane	ND (0.0020)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Carbon Disulfide	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Chlorobenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Chloroethane	ND (0.0020)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Chloroform	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Chloromethane	ND (0.0020)		8260B		1	03/31/16 20:17	CZC0555	CC63132
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Dibromochloromethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Dibromomethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Diethyl Ether	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Di-isopropyl ether	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Ethylbenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Hexachloroethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Isopropylbenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Methylene Chloride	ND (0.0020)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Naphthalene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
n-Butylbenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
n-Propylbenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
sec-Butylbenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Styrene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
tert-Butylbenzene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Tetrachloroethene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

Client Project ID: Bay Spring Ave

Client Sample ID: MW-5

Date Sampled: 03/29/16 14:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1603703

ESS Laboratory Sample ID: 1603703-03

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Toluene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Trichloroethene	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Vinyl Acetate	ND (0.0050)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Vinyl Chloride	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Xylene O	ND (0.0010)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Xylene P,M	ND (0.0020)		8260B		1	03/31/16 20:17	CZC0555	CC63132
Xylenes (Total)	ND (0.0020)		8260B		1	03/31/16 20:17		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	108 %		70-130
<i>Surrogate: Toluene-d8</i>	91 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

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 CC63041 - 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
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



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CC63041 - 5030B

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							
Xylenes (Total)	ND	0.0020	mg/L							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0228		mg/L	0.02500		91		70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0232		mg/L	0.02500		93		70-130		
<i>Surrogate: Dibromofluoromethane</i>	0.0248		mg/L	0.02500		99		70-130		
<i>Surrogate: Toluene-d8</i>	0.0240		mg/L	0.02500		96		70-130		

LCS

1,1,1,2-Tetrachloroethane	9.27	ug/L	10.00	93	70-130
1,1,1-Trichloroethane	8.96	ug/L	10.00	90	70-130
1,1,2,2-Tetrachloroethane	10.5	ug/L	10.00	105	70-130
1,1,2-Trichloroethane	9.22	ug/L	10.00	92	70-130
1,1-Dichloroethane	9.06	ug/L	10.00	91	70-130
1,1-Dichloroethene	10.4	ug/L	10.00	104	70-130
1,1-Dichloropropene	9.80	ug/L	10.00	98	70-130
1,2,3-Trichlorobenzene	9.66	ug/L	10.00	97	70-130
1,2,3-Trichloropropane	9.28	ug/L	10.00	93	70-130



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

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 CC63041 - 5030B

1,2,4-Trichlorobenzene	9.72		ug/L	10.00		97	70-130			
1,2,4-Trimethylbenzene	9.62		ug/L	10.00		96	70-130			
1,2-Dibromo-3-Chloropropane	10.8		ug/L	10.00		108	70-130			
1,2-Dibromoethane	10.2		ug/L	10.00		102	70-130			
1,2-Dichlorobenzene	10.4		ug/L	10.00		104	70-130			
1,2-Dichloroethane	8.98		ug/L	10.00		90	70-130			
1,2-Dichloropropane	8.97		ug/L	10.00		90	70-130			
1,3,5-Trimethylbenzene	9.80		ug/L	10.00		98	70-130			
1,3-Dichlorobenzene	10.3		ug/L	10.00		103	70-130			
1,3-Dichloropropane	10.6		ug/L	10.00		106	70-130			
1,4-Dichlorobenzene	10.2		ug/L	10.00		102	70-130			
1,4-Dioxane - Screen	242		ug/L	200.0		121	0-332			
1-Chlorohexane	10.0		ug/L	10.00		100	70-130			
2,2-Dichloropropane	6.76		ug/L	10.00		68	70-130			B-
2-Butanone	51.8		ug/L	50.00		104	70-130			
2-Chlorotoluene	10.1		ug/L	10.00		101	70-130			
2-Hexanone	58.4		ug/L	50.00		117	70-130			
4-Chlorotoluene	10.2		ug/L	10.00		102	70-130			
4-Isopropyltoluene	9.76		ug/L	10.00		98	70-130			
4-Methyl-2-Pentanone	55.4		ug/L	50.00		111	70-130			
Acetone	47.3		ug/L	50.00		95	70-130			
Benzene	9.54		ug/L	10.00		95	70-130			
Bromobenzene	10.5		ug/L	10.00		105	70-130			
Bromochloromethane	9.73		ug/L	10.00		97	70-130			
Bromodichloromethane	9.04		ug/L	10.00		90	70-130			
Bromoform	8.95		ug/L	10.00		90	70-130			
Bromomethane	2.69		ug/L	10.00		27	70-130			B-
Carbon Disulfide	9.23		ug/L	10.00		92	70-130			
Carbon Tetrachloride	8.82		ug/L	10.00		88	70-130			
Chlorobenzene	9.93		ug/L	10.00		99	70-130			
Chloroethane	7.69		ug/L	10.00		77	70-130			
Chloroform	8.73		ug/L	10.00		87	70-130			
Chloromethane	7.96		ug/L	10.00		80	70-130			
cis-1,2-Dichloroethene	10.4		ug/L	10.00		104	70-130			
cis-1,3-Dichloropropene	9.79		ug/L	10.00		98	70-130			
Dibromochloromethane	9.85		ug/L	10.00		98	70-130			
Dibromomethane	8.91		ug/L	10.00		89	70-130			
Dichlorodifluoromethane	9.46		ug/L	10.00		95	70-130			
Diethyl Ether	10.3		ug/L	10.00		103	70-130			
Di-isopropyl ether	9.77		ug/L	10.00		98	70-130			
Ethyl tertiary-butyl ether	8.47		ug/L	10.00		85	70-130			
Ethylbenzene	9.66		ug/L	10.00		97	70-130			
Hexachlorobutadiene	9.73		ug/L	10.00		97	70-130			
Hexachloroethane	8.91		ug/L	10.00		89	70-130			
Isopropylbenzene	10.0		ug/L	10.00		100	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

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 CC63041 - 5030B

Methyl tert-Butyl Ether	9.31		ug/L	10.00	93	70-130				
Methylene Chloride	9.63		ug/L	10.00	96	70-130				
Naphthalene	12.4		ug/L	10.00	124	70-130				
n-Butylbenzene	8.98		ug/L	10.00	90	70-130				
n-Propylbenzene	10.0		ug/L	10.00	100	70-130				
sec-Butylbenzene	9.95		ug/L	10.00	100	70-130				
Styrene	9.56		ug/L	10.00	96	70-130				
tert-Butylbenzene	10.1		ug/L	10.00	101	70-130				
Tertiary-amyl methyl ether	7.40		ug/L	10.00	74	70-130				
Tetrachloroethene	7.25		ug/L	10.00	72	70-130				
Tetrahydrofuran	10.4		ug/L	10.00	104	70-130				
Toluene	9.41		ug/L	10.00	94	70-130				
trans-1,2-Dichloroethene	10.1		ug/L	10.00	101	70-130				
trans-1,3-Dichloropropene	8.43		ug/L	10.00	84	70-130				
Trichloroethene	9.23		ug/L	10.00	92	70-130				
Trichlorofluoromethane	8.41		ug/L	10.00	84	70-130				
Vinyl Acetate	11.0		ug/L	10.00	110	70-130				
Vinyl Chloride	8.37		ug/L	10.00	84	70-130				
Xylene O	9.97		ug/L	10.00	100	70-130				
Xylene P,M	20.0		ug/L	20.00	100	70-130				
Xylenes (Total)	29.9		mg/L							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0243</i>		mg/L	<i>0.02500</i>	<i>97</i>	<i>70-130</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0268</i>		mg/L	<i>0.02500</i>	<i>107</i>	<i>70-130</i>				
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0262</i>		mg/L	<i>0.02500</i>	<i>105</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0268</i>		mg/L	<i>0.02500</i>	<i>107</i>	<i>70-130</i>				

LCS Dup

1,1,1,2-Tetrachloroethane	8.93		ug/L	10.00	89	70-130	4	25		
1,1,1-Trichloroethane	9.02		ug/L	10.00	90	70-130	0.7	25		
1,1,2,2-Tetrachloroethane	10.3		ug/L	10.00	103	70-130	2	25		
1,1,2-Trichloroethane	9.23		ug/L	10.00	92	70-130	0.1	25		
1,1-Dichloroethane	9.17		ug/L	10.00	92	70-130	1	25		
1,1-Dichloroethene	10.1		ug/L	10.00	101	70-130	3	25		
1,1-Dichloropropene	9.94		ug/L	10.00	99	70-130	1	25		
1,2,3-Trichlorobenzene	9.39		ug/L	10.00	94	70-130	3	25		
1,2,3-Trichloropropane	9.17		ug/L	10.00	92	70-130	1	25		
1,2,4-Trichlorobenzene	9.56		ug/L	10.00	96	70-130	2	25		
1,2,4-Trimethylbenzene	9.51		ug/L	10.00	95	70-130	1	25		
1,2-Dibromo-3-Chloropropane	10.5		ug/L	10.00	105	70-130	2	25		
1,2-Dibromoethane	9.88		ug/L	10.00	99	70-130	3	25		
1,2-Dichlorobenzene	10.2		ug/L	10.00	102	70-130	2	25		
1,2-Dichloroethane	8.99		ug/L	10.00	90	70-130	0.1	25		
1,2-Dichloropropane	9.16		ug/L	10.00	92	70-130	2	25		
1,3,5-Trimethylbenzene	9.70		ug/L	10.00	97	70-130	1	25		
1,3-Dichlorobenzene	10.0		ug/L	10.00	100	70-130	3	25		
1,3-Dichloropropane	10.2		ug/L	10.00	102	70-130	4	25		



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

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 CC63041 - 5030B

1,4-Dichlorobenzene	10.1		ug/L	10.00	101	70-130	2	25		
1,4-Dioxane - Screen	238		ug/L	200.0	119	0-332	2	200		
1-Chlorohexane	10.1		ug/L	10.00	101	70-130	0.6	25		
2,2-Dichloropropane	6.86		ug/L	10.00	69	70-130	1	25		B-
2-Butanone	51.6		ug/L	50.00	103	70-130	0.3	25		
2-Chlorotoluene	9.96		ug/L	10.00	100	70-130	1	25		
2-Hexanone	57.6		ug/L	50.00	115	70-130	1	25		
4-Chlorotoluene	10.1		ug/L	10.00	101	70-130	1	25		
4-Isopropyltoluene	9.55		ug/L	10.00	96	70-130	2	25		
4-Methyl-2-Pentanone	55.1		ug/L	50.00	110	70-130	0.5	25		
Acetone	49.1		ug/L	50.00	98	70-130	4	25		
Benzene	9.58		ug/L	10.00	96	70-130	0.4	25		
Bromobenzene	10.5		ug/L	10.00	105	70-130	0.2	25		
Bromochloromethane	9.83		ug/L	10.00	98	70-130	1	25		
Bromodichloromethane	8.92		ug/L	10.00	89	70-130	1	25		
Bromoform	8.69		ug/L	10.00	87	70-130	3	25		
Bromomethane	3.04		ug/L	10.00	30	70-130	12	25		B-
Carbon Disulfide	9.17		ug/L	10.00	92	70-130	0.7	25		
Carbon Tetrachloride	8.93		ug/L	10.00	89	70-130	1	25		
Chlorobenzene	9.56		ug/L	10.00	96	70-130	4	25		
Chloroethane	7.67		ug/L	10.00	77	70-130	0.3	25		
Chloroform	8.74		ug/L	10.00	87	70-130	0.1	25		
Chloromethane	8.56		ug/L	10.00	86	70-130	7	25		
cis-1,2-Dichloroethene	10.4		ug/L	10.00	104	70-130	0.5	25		
cis-1,3-Dichloropropene	9.70		ug/L	10.00	97	70-130	0.9	25		
Dibromochloromethane	9.55		ug/L	10.00	96	70-130	3	25		
Dibromomethane	8.94		ug/L	10.00	89	70-130	0.3	25		
Dichlorodifluoromethane	9.43		ug/L	10.00	94	70-130	0.3	25		
Diethyl Ether	10.4		ug/L	10.00	104	70-130	0.5	25		
Di-isopropyl ether	9.80		ug/L	10.00	98	70-130	0.3	25		
Ethyl tertiary-butyl ether	8.88		ug/L	10.00	89	70-130	5	25		
Ethylbenzene	9.43		ug/L	10.00	94	70-130	2	25		
Hexachlorobutadiene	9.45		ug/L	10.00	94	70-130	3	25		
Hexachloroethane	8.74		ug/L	10.00	87	70-130	2	25		
Isopropylbenzene	9.95		ug/L	10.00	100	70-130	1	25		
Methyl tert-Butyl Ether	9.59		ug/L	10.00	96	70-130	3	25		
Methylene Chloride	9.69		ug/L	10.00	97	70-130	0.6	25		
Naphthalene	11.7		ug/L	10.00	117	70-130	6	25		
n-Butylbenzene	8.81		ug/L	10.00	88	70-130	2	25		
n-Propylbenzene	9.89		ug/L	10.00	99	70-130	1	25		
sec-Butylbenzene	9.80		ug/L	10.00	98	70-130	2	25		
Styrene	9.48		ug/L	10.00	95	70-130	0.8	25		
tert-Butylbenzene	9.95		ug/L	10.00	100	70-130	2	25		
Tertiary-amyl methyl ether	7.95		ug/L	10.00	80	70-130	7	25		
Tetrachloroethene	7.10		ug/L	10.00	71	70-130	2	25		



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

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 CC63041 - 5030B

Tetrahydrofuran	10.6	ug/L	10.00		106	70-130	2	25	
Toluene	9.48	ug/L	10.00		95	70-130	0.7	25	
trans-1,2-Dichloroethene	10.2	ug/L	10.00		102	70-130	0.4	25	
trans-1,3-Dichloropropene	8.47	ug/L	10.00		85	70-130	0.5	25	
Trichloroethene	9.09	ug/L	10.00		91	70-130	2	25	
Trichlorofluoromethane	8.57	ug/L	10.00		86	70-130	2	25	
Vinyl Acetate	11.0	ug/L	10.00		110	70-130	0.4	25	
Vinyl Chloride	8.30	ug/L	10.00		83	70-130	0.8	25	
Xylene O	9.69	ug/L	10.00		97	70-130	3	25	
Xylene P,M	19.6	ug/L	20.00		98	70-130	2	25	
Xylenes (Total)	29.3	mg/L							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0238</i>	mg/L	<i>0.02500</i>		<i>95</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0259</i>	mg/L	<i>0.02500</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0258</i>	mg/L	<i>0.02500</i>		<i>103</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0261</i>	mg/L	<i>0.02500</i>		<i>105</i>	<i>70-130</i>			

Batch CC63132 - 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



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

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 CC63132 - 5030B

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
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



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

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 CC63132 - 5030B

Xylene P,M	ND	0.0020	mg/L							
Xylenes (Total)	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0250		mg/L	0.02500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0227		mg/L	0.02500		91	70-130			
Surrogate: Dibromofluoromethane	0.0266		mg/L	0.02500		107	70-130			
Surrogate: Toluene-d8	0.0234		mg/L	0.02500		93	70-130			

LCS

1,1,1,2-Tetrachloroethane	9.33		ug/L	10.00		93	70-130			
1,1,1-Trichloroethane	9.37		ug/L	10.00		94	70-130			
1,1,2,2-Tetrachloroethane	10.1		ug/L	10.00		101	70-130			
1,1,2-Trichloroethane	9.38		ug/L	10.00		94	70-130			
1,1-Dichloroethane	9.35		ug/L	10.00		94	70-130			
1,1-Dichloroethene	10.1		ug/L	10.00		101	70-130			
1,1-Dichloropropene	10.3		ug/L	10.00		103	70-130			
1,2,3-Trichlorobenzene	10.2		ug/L	10.00		102	70-130			
1,2,3-Trichloropropane	9.11		ug/L	10.00		91	70-130			
1,2,4-Trichlorobenzene	10.4		ug/L	10.00		104	70-130			
1,2,4-Trimethylbenzene	9.38		ug/L	10.00		94	70-130			
1,2-Dibromo-3-Chloropropane	10.7		ug/L	10.00		107	70-130			
1,2-Dibromoethane	10.1		ug/L	10.00		101	70-130			
1,2-Dichlorobenzene	10.1		ug/L	10.00		101	70-130			
1,2-Dichloroethane	9.40		ug/L	10.00		94	70-130			
1,2-Dichloropropane	8.85		ug/L	10.00		88	70-130			
1,3,5-Trimethylbenzene	9.54		ug/L	10.00		95	70-130			
1,3-Dichlorobenzene	10.2		ug/L	10.00		102	70-130			
1,3-Dichloropropane	10.6		ug/L	10.00		106	70-130			
1,4-Dichlorobenzene	10.3		ug/L	10.00		103	70-130			
1,4-Dioxane - Screen	226		ug/L	200.0		113	0-332			
1-Chlorohexane	10.1		ug/L	10.00		101	70-130			
2,2-Dichloropropane	9.70		ug/L	10.00		97	70-130			
2-Butanone	50.8		ug/L	50.00		102	70-130			
2-Chlorotoluene	9.92		ug/L	10.00		99	70-130			
2-Hexanone	55.9		ug/L	50.00		112	70-130			
4-Chlorotoluene	10.2		ug/L	10.00		102	70-130			
4-Isopropyltoluene	9.62		ug/L	10.00		96	70-130			
4-Methyl-2-Pentanone	52.0		ug/L	50.00		104	70-130			
Acetone	49.2		ug/L	50.00		98	70-130			
Benzene	9.47		ug/L	10.00		95	70-130			
Bromobenzene	10.2		ug/L	10.00		102	70-130			
Bromochloromethane	9.59		ug/L	10.00		96	70-130			
Bromodichloromethane	9.37		ug/L	10.00		94	70-130			
Bromoform	9.48		ug/L	10.00		95	70-130			
Bromomethane	4.71		ug/L	10.00		47	70-130			
Carbon Disulfide	9.14		ug/L	10.00		91	70-130			
Carbon Tetrachloride	9.43		ug/L	10.00		94	70-130			

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CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC63132 - 5030B										
Chlorobenzene	9.85		ug/L	10.00	98	70-130				
Chloroethane	7.77		ug/L	10.00	78	70-130				
Chloroform	9.07		ug/L	10.00	91	70-130				
Chloromethane	9.30		ug/L	10.00	93	70-130				
cis-1,2-Dichloroethene	10.1		ug/L	10.00	101	70-130				
cis-1,3-Dichloropropene	9.94		ug/L	10.00	99	70-130				
Dibromochloromethane	10.0		ug/L	10.00	100	70-130				
Dibromomethane	9.15		ug/L	10.00	92	70-130				
Dichlorodifluoromethane	10.2		ug/L	10.00	102	70-130				
Diethyl Ether	10.2		ug/L	10.00	102	70-130				
Di-isopropyl ether	9.32		ug/L	10.00	93	70-130				
Ethyl tertiary-butyl ether	9.65		ug/L	10.00	96	70-130				
Ethylbenzene	9.55		ug/L	10.00	96	70-130				
Hexachlorobutadiene	10.2		ug/L	10.00	102	70-130				
Hexachloroethane	9.18		ug/L	10.00	92	70-130				
Isopropylbenzene	9.55		ug/L	10.00	96	70-130				
Methyl tert-Butyl Ether	9.72		ug/L	10.00	97	70-130				
Methylene Chloride	9.88		ug/L	10.00	99	70-130				
Naphthalene	12.3		ug/L	10.00	123	70-130				
n-Butylbenzene	9.71		ug/L	10.00	97	70-130				
n-Propylbenzene	9.86		ug/L	10.00	99	70-130				
sec-Butylbenzene	9.96		ug/L	10.00	100	70-130				
Styrene	9.92		ug/L	10.00	99	70-130				
tert-Butylbenzene	9.64		ug/L	10.00	96	70-130				
Tertiary-amyl methyl ether	9.19		ug/L	10.00	92	70-130				
Tetrachloroethene	7.24		ug/L	10.00	72	70-130				
Tetrahydrofuran	10.5		ug/L	10.00	105	70-130				
Toluene	9.36		ug/L	10.00	94	70-130				
trans-1,2-Dichloroethene	9.98		ug/L	10.00	100	70-130				
trans-1,3-Dichloropropene	8.90		ug/L	10.00	89	70-130				
Trichloroethene	9.23		ug/L	10.00	92	70-130				
Trichlorofluoromethane	9.03		ug/L	10.00	90	70-130				
Vinyl Acetate	10.8		ug/L	10.00	108	70-130				
Vinyl Chloride	8.85		ug/L	10.00	88	70-130				
Xylene O	9.88		ug/L	10.00	99	70-130				
Xylene P,M	19.8		ug/L	20.00	99	70-130				
Xylenes (Total)	29.7		mg/L							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0252		mg/L	0.02500	101	70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0271		mg/L	0.02500	108	70-130				
<i>Surrogate: Dibromofluoromethane</i>	0.0267		mg/L	0.02500	107	70-130				
<i>Surrogate: Toluene-d8</i>	0.0259		mg/L	0.02500	104	70-130				
LCS Dup										
1,1,1,2-Tetrachloroethane	9.07		ug/L	10.00	91	70-130	3	25		
1,1,1-Trichloroethane	9.11		ug/L	10.00	91	70-130	3	25		
1,1,2,2-Tetrachloroethane	9.47		ug/L	10.00	95	70-130	7	25		



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
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ESS Laboratory Work Order: 1603703

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 CC63132 - 5030B

1,1,2-Trichloroethane	8.56		ug/L	10.00	86	70-130	9	25		
1,1-Dichloroethane	8.99		ug/L	10.00	90	70-130	4	25		
1,1-Dichloroethene	9.83		ug/L	10.00	98	70-130	3	25		
1,1-Dichloropropene	9.87		ug/L	10.00	99	70-130	4	25		
1,2,3-Trichlorobenzene	9.19		ug/L	10.00	92	70-130	10	25		
1,2,3-Trichloropropane	8.46		ug/L	10.00	85	70-130	7	25		
1,2,4-Trichlorobenzene	9.20		ug/L	10.00	92	70-130	12	25		
1,2,4-Trimethylbenzene	9.35		ug/L	10.00	94	70-130	0.3	25		
1,2-Dibromo-3-Chloropropane	9.99		ug/L	10.00	100	70-130	6	25		
1,2-Dibromoethane	9.33		ug/L	10.00	93	70-130	8	25		
1,2-Dichlorobenzene	10.0		ug/L	10.00	100	70-130	0.2	25		
1,2-Dichloroethane	9.12		ug/L	10.00	91	70-130	3	25		
1,2-Dichloropropane	8.67		ug/L	10.00	87	70-130	2	25		
1,3,5-Trimethylbenzene	9.70		ug/L	10.00	97	70-130	2	25		
1,3-Dichlorobenzene	10.2		ug/L	10.00	102	70-130	0.2	25		
1,3-Dichloropropane	10.1		ug/L	10.00	101	70-130	5	25		
1,4-Dichlorobenzene	9.84		ug/L	10.00	98	70-130	4	25		
1,4-Dioxane - Screen	212		ug/L	200.0	106	0-332	6	200		
1-Chlorohexane	9.97		ug/L	10.00	100	70-130	1	25		
2,2-Dichloropropane	9.33		ug/L	10.00	93	70-130	4	25		
2-Butanone	46.9		ug/L	50.00	94	70-130	8	25		
2-Chlorotoluene	10.1		ug/L	10.00	101	70-130	2	25		
2-Hexanone	49.3		ug/L	50.00	99	70-130	13	25		
4-Chlorotoluene	10.1		ug/L	10.00	101	70-130	0.8	25		
4-Isopropyltoluene	9.53		ug/L	10.00	95	70-130	0.9	25		
4-Methyl-2-Pentanone	47.4		ug/L	50.00	95	70-130	9	25		
Acetone	43.9		ug/L	50.00	88	70-130	12	25		
Benzene	9.42		ug/L	10.00	94	70-130	0.5	25		
Bromobenzene	10.0		ug/L	10.00	100	70-130	2	25		
Bromochloromethane	9.31		ug/L	10.00	93	70-130	3	25		
Bromodichloromethane	9.06		ug/L	10.00	91	70-130	3	25		
Bromoform	8.43		ug/L	10.00	84	70-130	12	25		
Bromomethane	5.95		ug/L	10.00	60	70-130	23	25	B-	
Carbon Disulfide	9.08		ug/L	10.00	91	70-130	0.7	25		
Carbon Tetrachloride	9.33		ug/L	10.00	93	70-130	1	25		
Chlorobenzene	9.52		ug/L	10.00	95	70-130	3	25		
Chloroethane	7.67		ug/L	10.00	77	70-130	1	25		
Chloroform	8.76		ug/L	10.00	88	70-130	3	25		
Chloromethane	8.76		ug/L	10.00	88	70-130	6	25		
cis-1,2-Dichloroethene	10.2		ug/L	10.00	102	70-130	0.6	25		
cis-1,3-Dichloropropene	9.55		ug/L	10.00	96	70-130	4	25		
Dibromochloromethane	9.47		ug/L	10.00	95	70-130	6	25		
Dibromomethane	8.74		ug/L	10.00	87	70-130	5	25		
Dichlorodifluoromethane	9.74		ug/L	10.00	97	70-130	5	25		
Diethyl Ether	9.60		ug/L	10.00	96	70-130	6	25		



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls
Client Project ID: Bay Spring Ave

ESS Laboratory Work Order: 1603703

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 CC63132 - 5030B

Di-isopropyl ether	9.11		ug/L	10.00	91	70-130	2	25		
Ethyl tertiary-butyl ether	8.62		ug/L	10.00	86	70-130	11	25		
Ethylbenzene	9.24		ug/L	10.00	92	70-130	3	25		
Hexachlorobutadiene	10.1		ug/L	10.00	101	70-130	2	25		
Hexachloroethane	8.57		ug/L	10.00	86	70-130	7	25		
Isopropylbenzene	9.59		ug/L	10.00	96	70-130	0.4	25		
Methyl tert-Butyl Ether	8.93		ug/L	10.00	89	70-130	8	25		
Methylene Chloride	9.81		ug/L	10.00	98	70-130	0.7	25		
Naphthalene	11.4		ug/L	10.00	114	70-130	8	25		
n-Butylbenzene	8.86		ug/L	10.00	89	70-130	9	25		
n-Propylbenzene	9.79		ug/L	10.00	98	70-130	0.7	25		
sec-Butylbenzene	9.99		ug/L	10.00	100	70-130	0.3	25		
Styrene	9.19		ug/L	10.00	92	70-130	8	25		
tert-Butylbenzene	9.76		ug/L	10.00	98	70-130	1	25		
Tertiary-amyl methyl ether	7.59		ug/L	10.00	76	70-130	19	25		
Tetrachloroethene	7.04		ug/L	10.00	70	70-130	3	25		
Tetrahydrofuran	9.03		ug/L	10.00	90	70-130	15	25		
Toluene	9.39		ug/L	10.00	94	70-130	0.3	25		
trans-1,2-Dichloroethene	9.84		ug/L	10.00	98	70-130	1	25		
trans-1,3-Dichloropropene	8.27		ug/L	10.00	83	70-130	7	25		
Trichloroethene	9.24		ug/L	10.00	92	70-130	0.1	25		
Trichlorofluoromethane	8.83		ug/L	10.00	88	70-130	2	25		
Vinyl Acetate	10.2		ug/L	10.00	102	70-130	5	25		
Vinyl Chloride	8.74		ug/L	10.00	87	70-130	1	25		
Xylene O	9.52		ug/L	10.00	95	70-130	4	25		
Xylene P,M	19.6		ug/L	20.00	98	70-130	1	25		
Xylenes (Total)	29.2		mg/L							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0244		mg/L	0.02500	97	70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0267		mg/L	0.02500	107	70-130				
<i>Surrogate: Dibromofluoromethane</i>	0.0262		mg/L	0.02500	105	70-130				
<i>Surrogate: Toluene-d8</i>	0.0257		mg/L	0.02500	103	70-130				



CERTIFICATE OF ANALYSIS

Client Name: Resource Controls

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Notes and Definitions

U	Analyte included in the analysis, but not detected
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
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: Bay Spring Ave

ESS Laboratory Work Order: 1603703

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

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: RI00002
<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

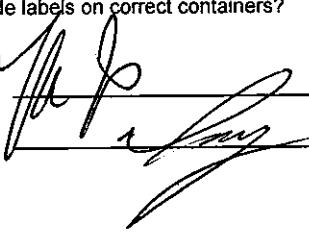
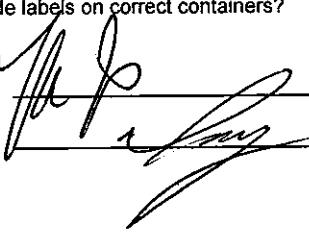
United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Resource Controls - TB/MM</u>	ESS Project ID: <u>1603703</u>						
Shipped/Delivered Via: <u>Client</u>	Date Received: <u>3/29/2016</u>						
	Project Due Date: <u>4/5/2016</u>						
	Days for Project: <u>5 Day</u>						
1. Air bill manifest present? Air No.: <u>NA</u>	<input type="checkbox"/> No	6. Does COC match bottles?	<input type="checkbox"/> Yes				
2. Were custody seals present?	<input type="checkbox"/> No	7. Is COC complete and correct?	<input type="checkbox"/> Yes				
3. Is radiation count <100 CPM?	<input type="checkbox"/> Yes	8. Were samples received intact?	<input type="checkbox"/> Yes				
4. Is a Cooler Present? Temp: <u>8.3</u> Iced with: <u>Ice Pack</u>	<input type="checkbox"/> Yes	9. Were labs informed about <u>short holds & rushes</u> ?	<input type="checkbox"/> Yes / No / NA				
5. Was COC signed and dated by client?	<input type="checkbox"/> Yes	10. Were any analyses received outside of hold time?	<input type="checkbox"/> Yes / No				
11. Any Subcontracting needed? ESS Sample IDs: Analysis: TAT:	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes / <input type="checkbox"/> No / NA				
13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOAs brought to freezer:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No Date: _____ Date: _____	Time: _____ Time: _____	By: _____ By: _____				
Sample Receiving Notes: <hr/> <hr/> <hr/>							
 <hr/> <hr/> <hr/>							
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? _____	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes / <input type="checkbox"/> No Date: _____	Time: _____	By: _____				
 <hr/> <hr/> <hr/>							
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	21087	Yes	No	Yes	VOA Vial - HCl	HCL	
01	21092	Yes	No	Yes	VOA Vial - HCl	HCL	
01	21093	Yes	No	Yes	VOA Vial - HCl	HCL	
02	21086	Yes	No	Yes	VOA Vial - HCl	HCL	
02	21090	Yes	No	Yes	VOA Vial - HCl	HCL	
02	21091	Yes	No	Yes	VOA Vial - HCl	HCL	
03	21085	Yes	No	Yes	VOA Vial - HCl	HCL	
03	21088	Yes	No	Yes	VOA Vial - HCl	HCL	
03	21089	Yes	No	Yes	VOA Vial - HCl	HCL	

2nd Review
Are barcode labels on correct containers? Yes / No

Completed By: 
Reviewed By: 

Date & Time: 3/29/16 1445
Date & Time: 3/29/16 1452

ESS Laboratory

Division of Thielisch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211

Tel. (401) 461-7181 Fax (401) 461-4486

www.esslaboratory.com

CHAIN OF CUSTODY

Co. Name	Project #		Address		Project Name (20 Char. or less)	
Resource Units	713 JA		17th Boarding		Bay Spring, Greenwich	
Contact Person	Julie Freijmen					
City	Portsmouth		State		ZIP	
Telephone #	1-734-6660		Fax #		PO# 7131A	

ESS LAB Sample #	Date	Collection Time	COMPL	CRM	MATRIX	Sample Identification (20 Char. or less)		Pres Code	Number of Contaminates	Type of Contaminates	Project Name (20 Char. or less)	Address	Phone#	Email Address	Comments	
						1	2									3
1	3/29/16	13:45	X	X	VOA	1	2	3	V	X	RCRA5	RCRAS	PPI3	TAL23	RCRAS	NBC7
2	3/29/16	13:55	X	X	VOA	2	3	3	V	X	8081	8082	608	608	8270	SVOA
3	3/29/16	14:00	X	X	VOA	3	3	3	V	X	8100	8015	DRD	DRD	8021	MTRB/BTRX
					VOA											VPH
					VOA											GR0
					VOA											MTRB/BTRX
					VOA											EFH
					VOA											EFH
					VOA											w/o PAHs/w/o PAHs
					VOA											4D6z
					VOA											PCB
					VOA											MCP-METALS (13)
					VOA											METALS (13)
					VOA											PCB/Hg
					VOA											ESS LAB PROJECT ID
					VOA											1003902
					VOA											No _____
					VOA											Yes X _____
					VOA											Other _____
					VOA											

*By circling MA-MCP, client acknowledges samples were collected
in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt
10/26/04 A

ATTACHMENT F

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, PCBs 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 characteristics of the subject site with respect to the possible presence in the environment of hazardous materials as defined within the project contract. 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. Any 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.