

7 January 2015
Reference: 0252540

Mr. Michael B. Smith
Vermont Department of Environmental Conservation
Waste Management Prevention Division
One National Life Drive
Davis One
Montpelier, VT 05620-3704



Re: CAP Report #17
Energizer Battery Manufacturing, Inc.
401 Gage Street
Bennington, Vermont 05201

Dear Michael:

Environmental Resources Management (ERM) is pleased to submit this letter report to the Vermont Department of Environmental Conservation (VT DEC) documenting the Corrective Action Plan (CAP) post-remediation monitoring on behalf of Energizer Battery Manufacturing, Inc. (Energizer) for the Energizer facility at 401 Gage Street, Bennington, Vermont (the "Site"). The VT DEC Sites Management Section has assigned the Site Number 2006-3509.

POST-REMEDIATION MONITORING STATUS

Following discussion with and approval from VT DEC (per e-mail to ERM from Michael Smith, dated 18 September 2012), all Interim Remedial Measure (IRM) and CAP systems were deactivated on 25 September 2012 to enable initiation of post-remediation groundwater monitoring.

In April 2014, VT DEC agreed to a revised monitoring schedule (per e-mail to ERM from Michael Smith, dated 28 April 2014), which includes semi-annual sampling (April and September) of ERM-12 and ERM-16; and annual sampling (September) of ERM-5S, ERM-8, ERM-11S and ERM-13.

Post-remediation quarterly monitoring began in December 2012 and continued on a quarterly basis through March 2014. The revised schedule of semi-annual sampling began in September 2014.

RESULTS AND RECOMMENDATIONS

Groundwater samples were collected using passive diffusion bags (PDBs) from three monitoring wells during the December 2013 quarterly sampling event, from four monitoring wells during the March 2014 quarterly sampling event, and from six monitoring wells during the September 2014 semi-annual sampling event.

The following attachments present groundwater monitoring results:

- Table 1 – Groundwater Analytical Results
- Figures 3 and 4 – Groundwater Analytical Results and Time-Series Plots
- Appendix A - Laboratory Analytical Reports.

Analytical results from groundwater samples collected between December 2013 and September 2014 indicate the following:

- PCE concentrations in ERM-5S, ERM-8 and ERM-13 remained relatively steady over the reporting period (September 2013 to September 2014) and continue to be below Vermont Groundwater Quality Standards (VT GWQS), and periodically below laboratory detection limits.
- PCE concentrations in ERM-11S and ERM-12 increased over the reporting period and continue to exceed the VT GWQS, but are not in excess of historic highs.
- PCE concentrations in ERM-16 remained relatively steady over the reporting period and were above VT GWQS. Previously, concentrations had periodically decreased below VT GWQS. The last reported concentration below the VT GWQS was in September 2013.
- TCE concentrations in groundwater were below VT GWQS in all monitoring wells sampled during this period.

Based on the data collected during this reporting period, ERM has developed the following recommendations for future activities:

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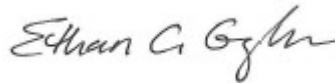
- Reduce frequency of collection of groundwater samples from ERM-12 and ERM-16 to an annual basis, and continue sampling ERM-11S on an annual basis. The next annual sampling event would take place in September 2015.
- Discontinue collecting groundwater samples from ERM-5S, ERM-8, and ERM-13. Results from each of these locations have been below VT GWQS for three or more years.
- Continue to provide VT DEC with a monitoring data table and figure on an annual basis, and communicate regarding the significance of these data.
- Continue to submit formal CAP letter reports on an annual basis. As such, the next CAP letter report will be submitted following the September 2015 sampling event.

Please call either of the undersigned at (617) 646-7800 if you have any questions or require additional information.

Sincerely,



R. Joseph Fiocco, Jr., P.G.
Principal-in-Charge



Ethan C. Gyles, P.E.
Project Manager

Cc: Mr. Jeffrey Gipson (Energizer)

Attachments:

Table 1 *Summary of Groundwater Analytical Results*

Figure 1 *Site Locus Map*

Figure 2 *Site Plan*

Figure 3 *PCE Concentrations in Groundwater Samples*

Figure 4 *PCE Groundwater Time Series Plots*

Appendix A *Groundwater Analytical Results*

Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-5S 18-Jul-06 Stone N	ERM-5S 13-Feb-07 Stone N	ERM-5S 15-Sep-10 Alpha PDB	ERM-5S 16-Dec-10 Alpha PDB	ERM-5S 18-Mar-11 Alpha PDB	ERM-5S 28-Jun-11 Alpha PDB	ERM-5S 25-Sep-12 Alpha PDB	ERM-5S 11-Dec-12 Alpha PDB	ERM-5S 19-Mar-13 Alpha PDB	ERM-5S 19-Jun-13 Alpha PDB
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	24	12	1.5	1.2	0.80	1.7	0.71	< 0.50	1.2	0.95
Trichloroethylene	5	3	2.3	2.0	< 0.50	< 0.50	0.57	< 0.50	< 0.50	< 0.50	< 0.50
Cis-1,2-Dichloroethene	70	< 2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 2	< 2	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75

Notes:

ug/l = Micrograms per liter.

< = Compound not detected. Method detection limit shown.

Bold cells indicate concentrations greater than the laboratory detection limits.

Shaded cells indicate exceedances of Primary Groundwater Quality Standards Enforcement Standard.

Alpha = Alpha Woods Hole Laboratory Westboro, MA.

Stone = Stone Environmental, Inc. Montpelier, VT.

Analyses for VOCs performed by Alpha (EPA Method SW8260) and Stone (EPA Method SW8260B). See Table for distinction.

FD = Field Duplicate.

N = Normal Sample.

PDB = Passive Diffusion Bag method of sample collection.

Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-5S 12-Sep-13 Alpha PDB	ERM-5S 25-Mar-14 Alpha PDB	ERM-5S 16-Sep-14 Alpha PDB
Volatile Organics (VOCs) (ug/l)				
Tetrachloroethylene	5	2.3	0.91	< 0.50
Trichloroethylene	5	1.0	< 0.50	< 0.50
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 0.75

Notes:

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Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-8 21-Feb-07 Alpha N	ERM-8 17-Jun-10 Alpha N	ERM-8 17-Jun-10 Alpha PDB	ERM-8 15-Sep-10 Alpha PDB	ERM-8 16-Dec-10 Alpha PDB	ERM-8 17-Mar-11 Alpha PDB	ERM-8 28-Jun-11 Alpha PDB	ERM-8 28-Jun-11 Alpha FD	ERM-8 25-Oct-11 Alpha PDB	ERM-8 21-Dec-11 Alpha PDB
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	62	7.7	8.9	7.7	2.7	4.4	7.9	7.7	7.0	3.2
Trichloroethylene	5	3.9	0.74	0.83	4.0	1.6	0.95	1.1	1.1	1.5	0.64
Cis-1,2-Dichloroethene	70	0.83	< 0.50	< 0.50	2.1	1.3	1.0	0.98	0.98	2.1	0.81
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75

Notes:

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Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-8 22-Mar-12 Alpha PDB	ERM-8 22-Mar-12 Alpha FD	ERM-8 26-Jun-12 Alpha PDB	ERM-8 26-Jun-12 Alpha FD	ERM-8 25-Sep-12 Alpha PDB	ERM-8 12-Sep-13 Alpha PDB	ERM-8 12-Sep-13 Alpha FD	ERM-8 16-Sep-14 Alpha PDB	ERM-8 16-Sep-14 Alpha FD
Volatile Organics (VOCs) (ug/l)										
Tetrachloroethylene	5	1.5	1.5	2.3	2.3	1.5	0.97	0.98	2.00	2.00
Trichloroethylene	5	< 0.50	< 0.50	< 0.50	< 0.50	0.52	< 0.50	< 0.50	0.87	0.86
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75

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Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-11S 23-Feb-07 Alpha N	ERM-11S 16-Jun-10 Alpha N	ERM-11S 16-Jun-10 Alpha PDB	ERM-11S 15-Sep-10 Alpha PDB	ERM-11S 16-Dec-10 Alpha PDB	ERM-11S 18-Mar-11 Alpha PDB	ERM-11S 28-Jun-11 Alpha PDB	ERM-11S 24-Oct-11 Alpha PDB	ERM-11S 21-Dec-11 Alpha PDB	ERM-11S 22-Mar-12 Alpha PDB
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	180	100	78	100	90	100	83	68	100	83
Trichloroethylene	5	< 2.5	< 0.50	< 0.50	5.3	< 1.2	< 1.0	< 1.2	< 1.2	< 0.50	< 0.50
Cis-1,2-Dichloroethene	70	< 2.5	< 0.50	< 0.50	< 1.2	< 1.2	< 1.0	< 1.2	< 1.2	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 3.8	< 0.75	< 0.75	< 1.9	< 1.9	< 1.5	< 1.9	< 1.9	< 0.75	< 0.75

Notes:

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Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-11S 26-Jun-12 Alpha PDB	ERM-11S 25-Sep-12 Alpha PDB	ERM-11S 12-Sep-13 Alpha PDB	ERM-11S 19-Dec-13 Alpha PDB	ERM-11S 16-Sep-14 Alpha PDB
Volatile Organics (VOCs) (ug/l)						
Tetrachloroethylene	5	92	100	*	80	110
Trichloroethylene	5	< 0.50	< 0.50	*	< 0.50	< 0.50
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50	*	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	*	< 0.75	< 0.75

* No sample taken. No PDB in well.

Notes:

ug/l = Micrograms per liter.

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FD = Field Duplicate.

N = Normal Sample.

PDB = Passive Diffusion Bag method of sample collection.

Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-12 27-Feb-07 Alpha N	ERM-12 5-Sep-07 Stone N	ERM-12 5-Sep-07 Stone FD	ERM-12 18-Dec-07 Alpha N	ERM-12 10-Mar-08 Alpha N	ERM-12 10-Mar-08 Alpha FD	ERM-12 16-Jun-08 Alpha N	ERM-12 26-Sep-08 Alpha N	ERM-12 10-Dec-08 Alpha N	ERM-12 11-Mar-09 Alpha N
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	120	210	180	150	72	69	190	84	290	60
Trichloroethylene	5	< 2.0	< 10	< 10	< 2.0	0.50	< 0.50	< 1.0	4.2	40	11
Cis-1,2-Dichloroethene	70	< 2.0	< 10	< 10	< 2.0	< 0.50	< 0.50	< 1.0	< 2.0	24	3.6
Trans-1,2-Dichloroethene	100	< 3.0	< 10	< 10	< 3.0	< 0.75	< 0.75	< 1.5	< 3.0	< 3.0	< 1.5

Notes:

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N = Normal Sample.

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Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-12 17-Jun-09 Alpha N	ERM-12 16-Sep-09 Alpha N	ERM-12 8-Dec-09 Alpha N	ERM-12 30-Mar-10 Alpha N	ERM-12 16-Jun-10 Alpha N	ERM-12 16-Jun-10 Alpha PDB	ERM-12 15-Sep-10 Alpha PDB	ERM-12 16-Dec-10 Alpha PDB	ERM-12 18-Mar-11 Alpha PDB	ERM-12 28-Jun-11 Alpha PDB
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	32.8	50	39	58	100	100	120	62	70	54
Trichloroethylene	5	6.78	3.5	1.1	< 0.50	< 0.50	< 0.50	5.0	< 1.2	< 1.0	< 1.0
Cis-1,2-Dichloroethene	70	<2.0	< 1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 1.2	< 1.2	< 1.0	< 1.0
Trans-1,2-Dichloroethene	100	<2.0	< 1.9	< 0.75	< 0.75	< 0.75	< 0.75	< 1.9	< 1.9	< 1.5	< 1.5

Notes:

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Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-12 24-Oct-11 Alpha PDB	ERM-12 21-Dec-11 Alpha PDB	ERM-12 21-Mar-12 Alpha PDB	ERM-12 26-Jun-12 Alpha PDB	ERM-12 25-Sep-12 Alpha PDB	ERM-12 25-Sep-12 Alpha FD	ERM-12 11-Dec-12 Alpha PDB	ERM-12 11-Dec-12 Alpha FD	ERM-12 19-Mar-13 Alpha PDB	ERM-12 19-Jun-13 Alpha PDB
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	53	80	57	55	76	78	120	120	91	66
Trichloroethylene	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.2	< 0.50
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.2	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 1.9	< 0.75

Notes:

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Analyses for VOCs performed by Alpha (EPA Method SW8260) and Stone (EPA Method SW8260B). See Table for distinction.

FD = Field Duplicate.

N = Normal Sample.

PDB = Passive Diffusion Bag method of sample collection.

Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-12 19-Jun-13 Alpha FD	ERM-12 12-Sep-13 Alpha PDB	ERM-12 19-Dec-13 Alpha PDB	ERM-12 19-Dec-13 Alpha FD	ERM-12 25-Mar-14 Alpha PDB	ERM-12 25-Mar-14 Alpha FD	ERM-12 16-Sep-14 Alpha PDB
Volatile Organics (VOCs) (ug/l)								
Tetrachloroethylene	5	63	4.9	93	100	100	100	140
Trichloroethylene	5	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 1.5	< 0.75	< 0.75	< 0.75	< 0.75

Notes:

ug/l = Micrograms per liter.

< = Compound not detected. Method detection limit shown.

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FD = Field Duplicate.

N = Normal Sample.

PDB = Passive Diffusion Bag method of sample collection.

Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-13 27-Feb-07 Alpha N	ERM-13 5-Sep-07 Stone N	ERM-13 10-Mar-08 Alpha N	ERM-13 16-Jun-08 Alpha N	ERM-13 26-Sep-08 Alpha N	ERM-13 10-Dec-08 Alpha N	ERM-13 11-Mar-09 Alpha N	ERM-13 17-Jun-09 Alpha N	ERM-13 16-Sep-09 Alpha N	ERM-13 7-Dec-09 Alpha N
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	16	40	15	23	8.4	34	13	4.13	5.4	3.1
Trichloroethylene	5	1.2	< 10	0.71	0.61	1.4	4.0	4.7	4.77	2.8	1.1
Cis-1,2-Dichloroethene	70	< 0.50	< 10	< 0.50	< 0.50	< 0.50	1.5	1.9	< 2.0	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 10	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 2.0	< 0.75	< 0.75

Notes:

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Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-13 30-Mar-10 Alpha N	ERM-13 15-Jun-10 Alpha N	ERM-13 15-Jun-10 Alpha FD	ERM-13 15-Sep-10 Alpha PDB	ERM-13 16-Dec-10 Alpha PDB	ERM-13 25-Sep-12 Alpha PDB	ERM-13 11-Dec-12 Alpha PDB	ERM-13 19-Mar-13 Alpha PDB	ERM-13 19-Mar-13 Alpha FD	ERM-13 19-Jun-13 Alpha PDB
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	1.8	1.4	1.2	1.8	1.0	0.96	< 0.50	< 0.50	< 0.50	0.88
Trichloroethylene	5	< 0.50	< 0.50	< 0.50	2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75

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Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-13 12-Sep-13 Alpha PDB	ERM-13 25-Mar-14 Alpha PDB	ERM-13 24-Sep-14 Alpha PDB
Volatile Organics (VOCs) (ug/l)				
Tetrachloroethylene	5	< 0.50	< 0.50	< 0.50
Trichloroethylene	5	< 0.50	< 0.50	< 0.50
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 0.75

Notes:

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Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-16 22-May-07 Alpha N	ERM-16 4-Sep-07 Stone N	ERM-16 11-Mar-08 Alpha N	ERM-16 16-Jun-08 Alpha N	ERM-16 26-Sep-08 Alpha N	ERM-16 10-Dec-08 Alpha N	ERM-16 10-Mar-09 Alpha N	ERM-16 18-Jun-09 Alpha N	ERM-16 17-Sep-09 Alpha N	ERM-16 8-Dec-09 Alpha N
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	54	38	31	54	49	99	33	15.1	21	23
Trichloroethylene	5	1.5	< 10	< 0.50	< 0.50	2.5	23	6.0	6.43	3.6	2.0
Cis-1,2-Dichloroethene	70	< 0.50	< 10	< 0.50	< 0.50	0.82	11	2.5	< 2.0	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 10	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 2.0	< 0.75	< 0.75

Notes:

ug/l = Micrograms per liter.

< = Compound not detected. Method detection limit shown.

Bold cells indicate concentrations greater than the laboratory detection limits.

Shaded cells indicate exceedances of Primary Groundwater Quality Standards Enforcement Standard.

Alpha = Alpha Woods Hole Laboratory Westboro, MA.

Stone = Stone Environmental, Inc. Montpelier, VT.

Analyses for VOCs performed by Alpha (EPA Method SW8260) and Stone (EPA Method SW8260B). See Table for distinction.

FD = Field Duplicate.

N = Normal Sample.

PDB = Passive Diffusion Bag method of sample collection.

Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-16 30-Mar-10 Alpha N	ERM-16 15-Jun-10 Alpha N	ERM-16 15-Jun-10 Alpha FD	ERM-16 15-Jun-10 Alpha PDB	ERM-16 15-Sep-10 Alpha PDB	ERM-16 15-Dec-10 Alpha PDB	ERM-16 18-Mar-11 Alpha PDB	ERM-16 28-Jun-11 Alpha PDB	ERM-16 24-Oct-11 Alpha PDB	ERM-16 24-Oct-11 Alpha FD
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	18	24	18	12	3.3	7.7	23	15	6.3	6.2
Trichloroethylene	5	< 0.50	< 0.50	1.6	0.91	2.5	1.1	< 0.50	0.71	0.74	0.73
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75

Notes:

ug/l = Micrograms per liter.

< = Compound not detected. Method detection limit shown.

Bold cells indicate concentrations greater than the laboratory detection limits.

Shaded cells indicate exceedances of Primary Groundwater Quality Standards Enforcement Standard.

Alpha = Alpha Woods Hole Laboratory Westboro, MA.

Stone = Stone Environmental, Inc. Montpelier, VT.

Analyses for VOCs performed by Alpha (EPA Method SW8260) and Stone (EPA Method SW8260B). See Table for distinction.

FD = Field Duplicate.

N = Normal Sample.

PDB = Passive Diffusion Bag method of sample collection.

Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-16 21-Dec-11 Alpha PDB	ERM-16 21-Dec-11 Alpha FD	ERM-16 22-Mar-12 Alpha PDB	ERM-16 26-Jun-12 Alpha PDB	ERM-16 25-Sep-12 Alpha PDB	ERM-16 11-Dec-12 Alpha PDB	ERM-16 19-Mar-13 Alpha PDB	ERM-16 19-Jun-13 Alpha PDB	ERM-16 12-Sep-13 Alpha PDB	ERM-16 19-Dec-13 Alpha PDB
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	3.7	3.5	6.1	< 0.50	4.9	4.7	18	9.0	4.9	17
Trichloroethylene	5	0.56	0.54	0.63	< 0.50	0.94	0.55	< 0.50	< 0.50	< 0.50	< 0.50
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75

Notes:

ug/l = Micrograms per liter.

< = Compound not detected. Method detection limit shown.

Bold cells indicate concentrations greater than the laboratory detection limits.

Shaded cells indicate exceedances of Primary Groundwater Quality Standards Enforcement Standard.

Alpha = Alpha Woods Hole Laboratory Westboro, MA.

Stone = Stone Environmental, Inc. Montpelier, VT.

Analyses for VOCs performed by Alpha (EPA Method SW8260) and Stone (EPA Method SW8260B). See Table for distinction.

FD = Field Duplicate.

N = Normal Sample.

PDB = Passive Diffusion Bag method of sample collection.

Table 1
Summary of Groundwater Analytical Results
Energizer Facility
401 Gage Street, Bennington, VT

Location ID: Sample Date: Laboratory Sample Type:	Primary Groundwater Quality Standards Enforcement Standard	ERM-16 25-Mar-14 Alpha PDB	ERM-16 16-Sep-14 Alpha PDB
Volatile Organics (VOCs) (ug/l)			
Tetrachloroethylene	5	14	13
Trichloroethylene	5	< 0.50	0.58
Cis-1,2-Dichloroethene	70	< 0.50	< 0.50
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75

Notes:

ug/l = Micrograms per liter.

< = Compound not detected. Method detection limit shown.

Bold cells indicate concentrations greater than the laboratory detection limits.

Shaded cells indicate exceedances of Primary Groundwater Quality Standards Enforcement Standard.

Alpha = Alpha Woods Hole Laboratory Westboro, MA.

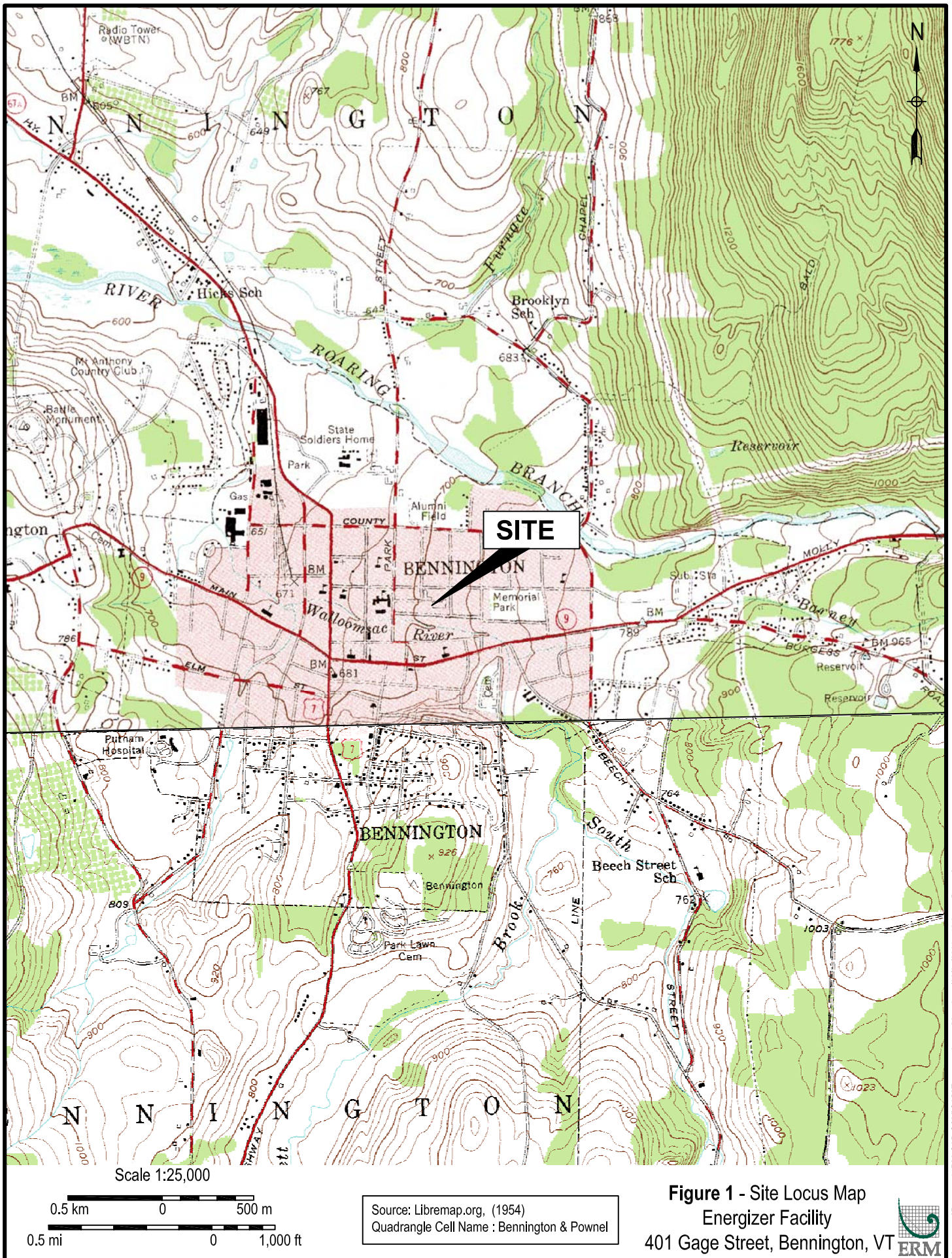
Stone = Stone Environmental, Inc. Montpelier, VT.

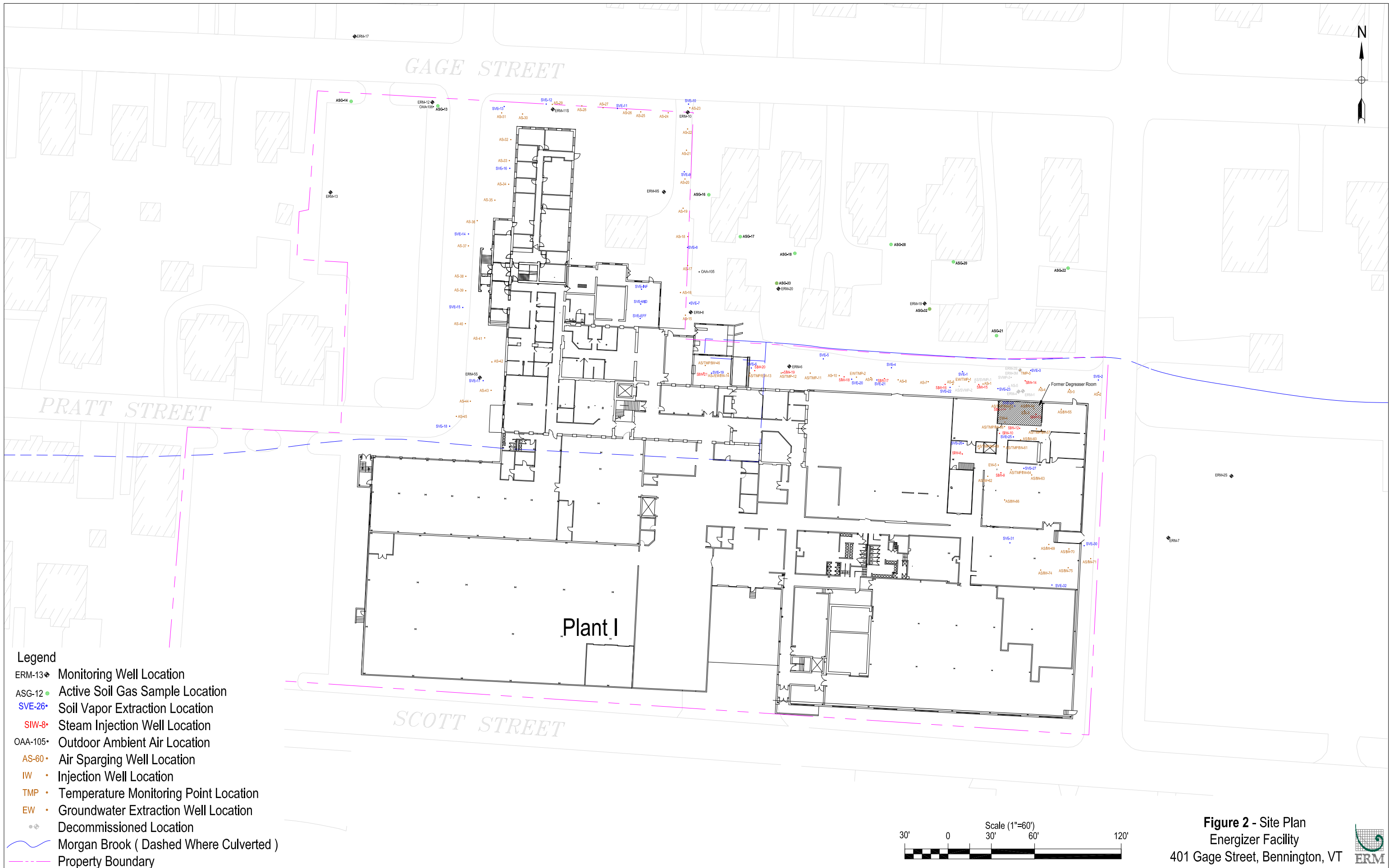
Analyses for VOCs performed by Alpha (EPA Method SW8260) and Stone (EPA Method SW8260B). See Table for distinction.

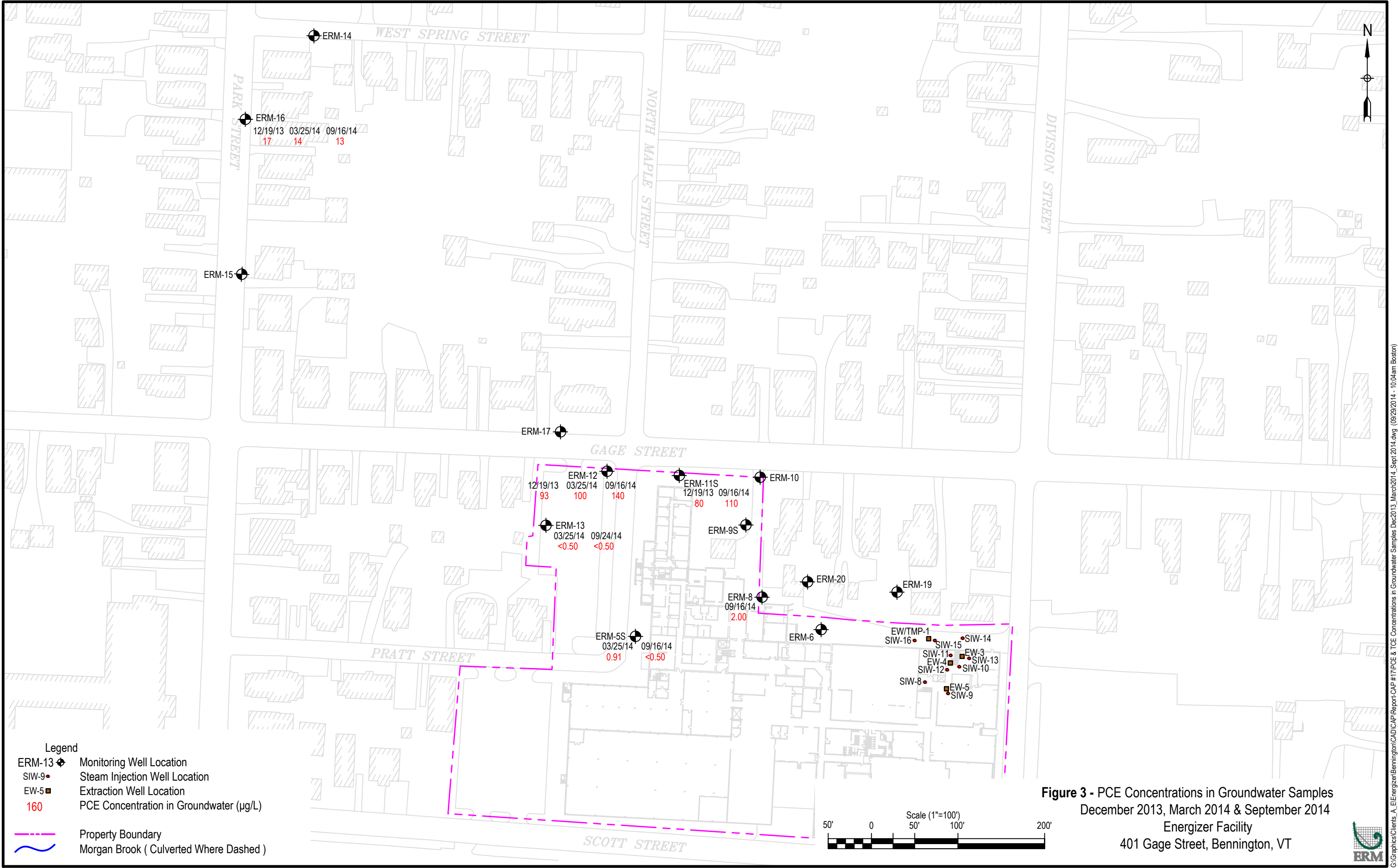
FD = Field Duplicate.

N = Normal Sample.

PDB = Passive Diffusion Bag method of sample collection.







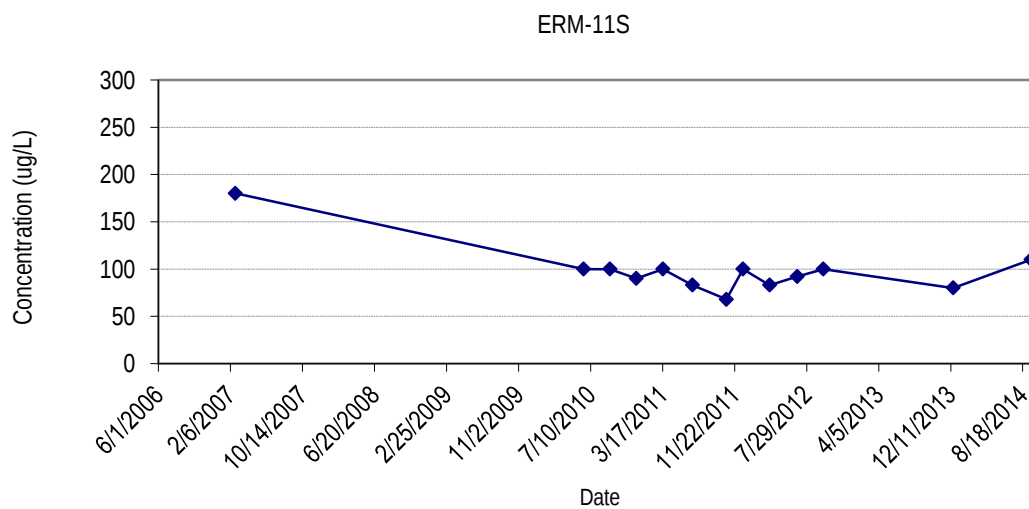
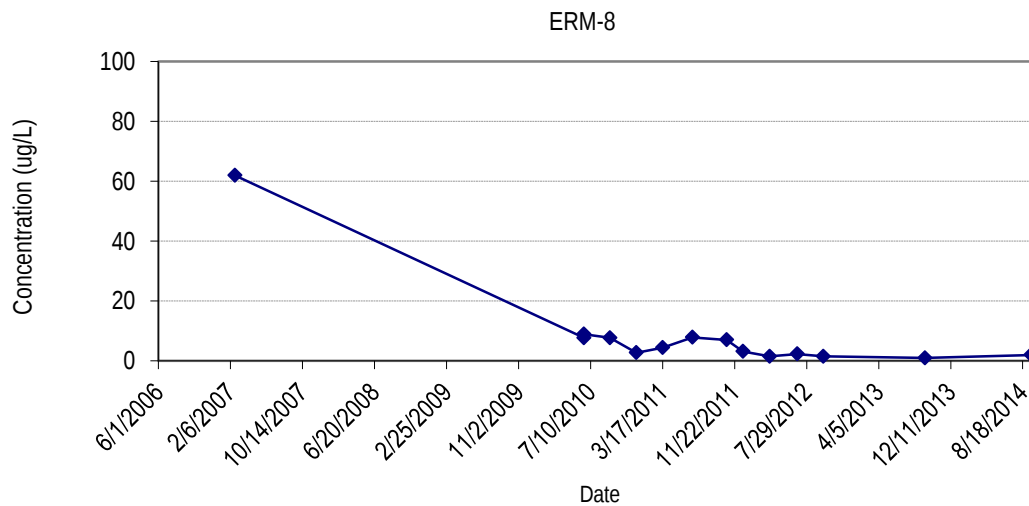
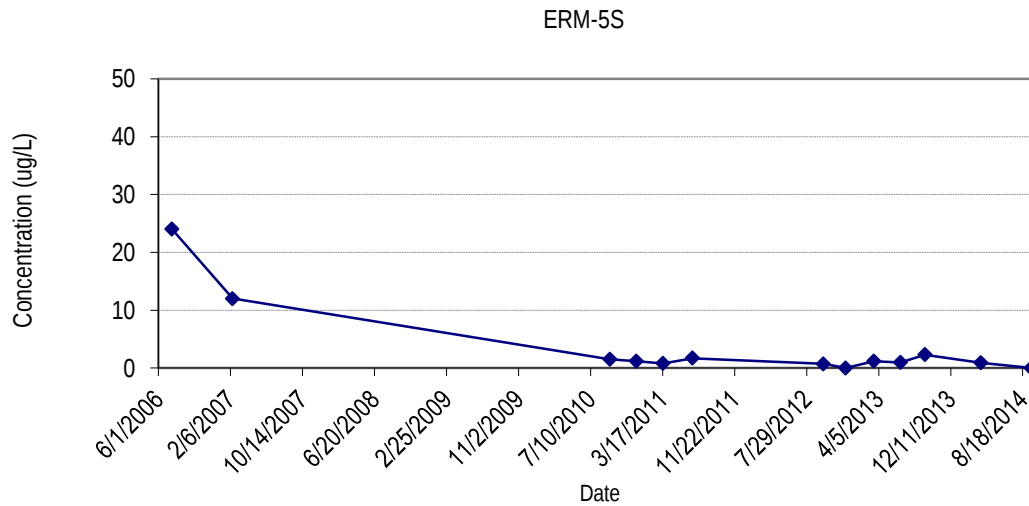


Figure 4 - PCE Groundwater Time Series Plots
 Energizer Facility
 401 Gage St, Bennington, VT



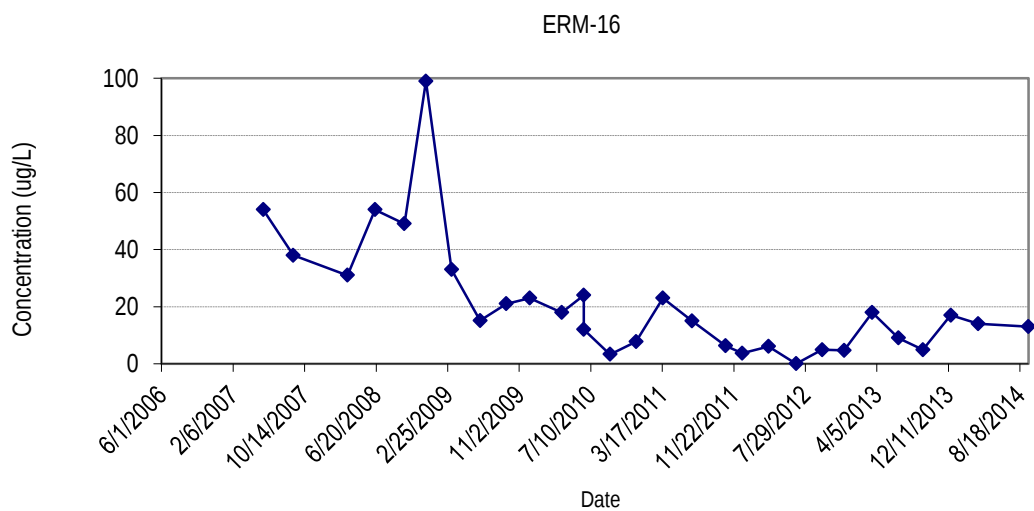
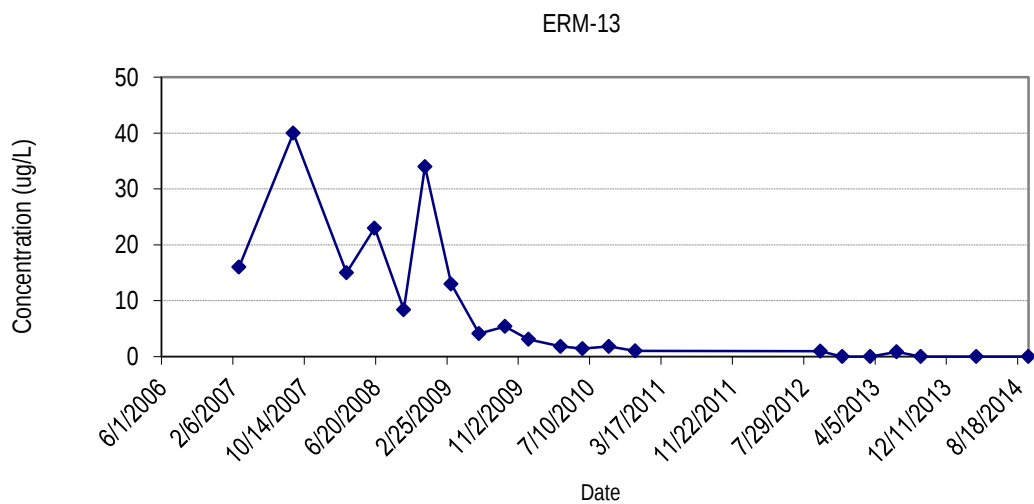
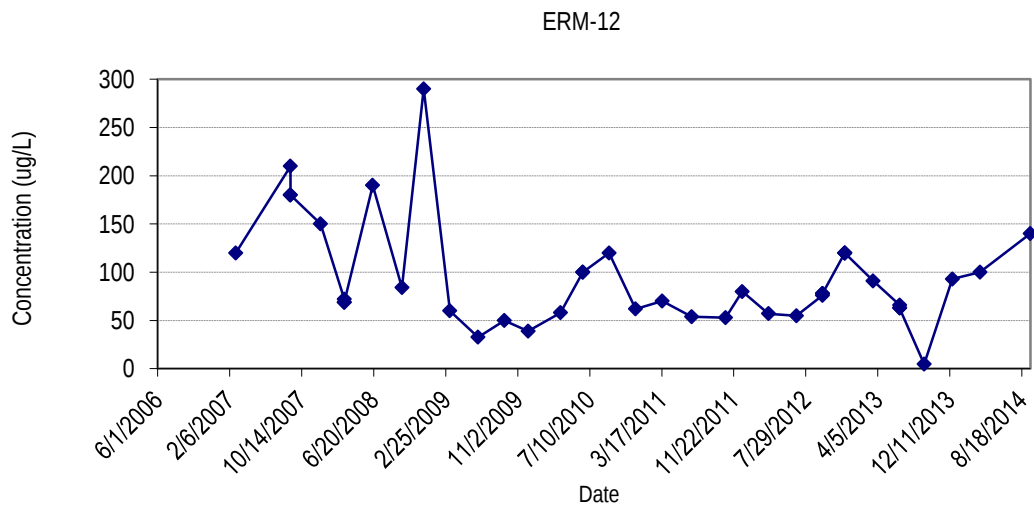


Figure 4 - PCE Groundwater Time Series Plots
 Energizer Facility
 401 Gage St, Bennington, VT





ANALYTICAL REPORT

Lab Number:	L1325962
Client:	ERM, Inc. 15 Park Row West Suite 104 Providence, RI 02903
ATTN:	Ethan Gyles
Phone:	(617) 646-7864
Project Name:	ENERGIZER
Project Number:	0193792
Report Date:	01/10/14

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: ENERGIZER
Project Number: 0193792

Lab Number: L1325962
Report Date: 01/10/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1325962-01	ERM-16-20131219-01	BENNINGTON, VT	12/19/13 14:35
L1325962-02	ERM-12-20131219-01	BENNINGTON, VT	12/19/13 13:50
L1325962-03	ERM-11S-20131219-01	BENNINGTON, VT	12/19/13 15:05
L1325962-04	DUP-001-20131219-01	BENNINGTON, VT	12/19/13 11:11
L1325962-05	TB-001-20131219-01	BENNINGTON, VT	12/19/13 00:00

Project Name: ENERGIZER
Project Number: 0193792

Lab Number: L1325962
Report Date: 01/10/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: ENERGIZER
Project Number: 0193792

Lab Number: L1325962
Report Date: 01/10/14

Case Narrative (continued)

Report Submission

This report replaces the report issued on December 30, 2013. The client sample IDs for L1325962-01, -02, and -03 have been amended, and an updated Chain of Custody has been provided.

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

Authorized Signature:



Cynthia McQueen

Title: Technical Director/Representative

Date: 01/10/14

ORGANICS

VOLATILES

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-01
Client ID: ERM-16-20131219-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 14:37
Analyst: MM

Date Collected: 12/19/13 14:35
Date Received: 12/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	17		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

SAMPLE RESULTS

Lab ID: L1325962-01
 Client ID: ERM-16-20131219-01
 Sample Location: BENNINGTON, VT

Date Collected: 12/19/13 14:35
 Date Received: 12/20/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	440	E	ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

SAMPLE RESULTS

Lab ID: L1325962-01
 Client ID: ERM-16-20131219-01
 Sample Location: BENNINGTON, VT

Date Collected: 12/19/13 14:35
 Date Received: 12/20/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	110		70-130

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-01 D
 Client ID: ERM-16-20131219-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 12/29/13 17:03
 Analyst: MM

Date Collected: 12/19/13 14:35
 Date Received: 12/20/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Acetone	560		ug/l	50	--	10
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-02 D2
 Client ID: ERM-12-20131219-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 12/29/13 17:34
 Analyst: MM

Date Collected: 12/19/13 13:50
 Date Received: 12/20/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Acetone	600		ug/l	100	--	20
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-02 D
 Client ID: ERM-12-20131219-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 12/27/13 15:10
 Analyst: MM

Date Collected: 12/19/13 13:50
 Date Received: 12/20/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.0	--	2
1,1-Dichloroethane	ND		ug/l	1.5	--	2
Chloroform	ND		ug/l	1.5	--	2
Carbon tetrachloride	ND		ug/l	1.0	--	2
1,2-Dichloropropane	ND		ug/l	3.5	--	2
Dibromochloromethane	ND		ug/l	1.0	--	2
1,1,2-Trichloroethane	ND		ug/l	1.5	--	2
Tetrachloroethene	93		ug/l	1.0	--	2
Chlorobenzene	ND		ug/l	1.0	--	2
Trichlorofluoromethane	ND		ug/l	5.0	--	2
1,2-Dichloroethane	ND		ug/l	1.0	--	2
1,1,1-Trichloroethane	ND		ug/l	1.0	--	2
Bromodichloromethane	ND		ug/l	1.0	--	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	--	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	--	2
1,1-Dichloropropene	ND		ug/l	5.0	--	2
Bromoform	ND		ug/l	4.0	--	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	2
Benzene	ND		ug/l	1.0	--	2
Toluene	ND		ug/l	1.5	--	2
Ethylbenzene	ND		ug/l	1.0	--	2
Chloromethane	ND		ug/l	5.0	--	2
Bromomethane	ND		ug/l	2.0	--	2
Vinyl chloride	ND		ug/l	2.0	--	2
Chloroethane	ND		ug/l	2.0	--	2
1,1-Dichloroethene	ND		ug/l	1.0	--	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	--	2
Trichloroethene	ND		ug/l	1.0	--	2
1,2-Dichlorobenzene	ND		ug/l	5.0	--	2
1,3-Dichlorobenzene	ND		ug/l	5.0	--	2
1,4-Dichlorobenzene	ND		ug/l	5.0	--	2

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-02 D

Date Collected: 12/19/13 13:50

Client ID: ERM-12-20131219-01

Date Received: 12/20/13

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	2
p/m-Xylene	ND		ug/l	2.0	--	2
o-Xylene	ND		ug/l	2.0	--	2
Xylenes, Total	ND		ug/l	2.0	--	2
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	2
Dibromomethane	ND		ug/l	10	--	2
1,4-Dichlorobutane	ND		ug/l	10	--	2
1,2,3-Trichloropropane	ND		ug/l	10	--	2
Styrene	ND		ug/l	2.0	--	2
Dichlorodifluoromethane	ND		ug/l	10	--	2
Acetone	450	E	ug/l	10	--	2
Carbon disulfide	ND		ug/l	10	--	2
2-Butanone	ND		ug/l	10	--	2
Vinyl acetate	ND		ug/l	10	--	2
4-Methyl-2-pentanone	ND		ug/l	10	--	2
2-Hexanone	ND		ug/l	10	--	2
Ethyl methacrylate	ND		ug/l	10	--	2
Acrylonitrile	ND		ug/l	10	--	2
Bromochloromethane	ND		ug/l	5.0	--	2
Tetrahydrofuran	ND		ug/l	10	--	2
2,2-Dichloropropane	ND		ug/l	5.0	--	2
1,2-Dibromoethane	ND		ug/l	4.0	--	2
1,3-Dichloropropane	ND		ug/l	5.0	--	2
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	2
Bromobenzene	ND		ug/l	5.0	--	2
n-Butylbenzene	ND		ug/l	1.0	--	2
sec-Butylbenzene	ND		ug/l	1.0	--	2
tert-Butylbenzene	ND		ug/l	5.0	--	2
o-Chlorotoluene	ND		ug/l	5.0	--	2
p-Chlorotoluene	ND		ug/l	5.0	--	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	--	2
Hexachlorobutadiene	ND		ug/l	1.0	--	2
Isopropylbenzene	ND		ug/l	1.0	--	2
p-Isopropyltoluene	ND		ug/l	1.0	--	2
Naphthalene	ND		ug/l	5.0	--	2
n-Propylbenzene	ND		ug/l	1.0	--	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	--	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	--	2

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

SAMPLE RESULTS

Lab ID: L1325962-02 D

Date Collected: 12/19/13 13:50

Client ID: ERM-12-20131219-01

Date Received: 12/20/13

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	5.0	--	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	--	2
Ethyl ether	ND		ug/l	5.0	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-03
Client ID: ERM-11S-20131219-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 15:43
Analyst: MM

Date Collected: 12/19/13 15:05
Date Received: 12/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	80		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-03

Date Collected: 12/19/13 15:05

Client ID: ERM-11S-20131219-01

Date Received: 12/20/13

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	540	E	ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

SAMPLE RESULTS

Lab ID: L1325962-03

Date Collected: 12/19/13 15:05

Client ID: ERM-11S-20131219-01

Date Received: 12/20/13

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-03 D
 Client ID: ERM-11S-20131219-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 12/29/13 18:06
 Analyst: MM

Date Collected: 12/19/13 15:05
 Date Received: 12/20/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Acetone	620		ug/l	100	--	20
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-04
Client ID: DUP-001-20131219-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/27/13 16:15
Analyst: MM

Date Collected: 12/19/13 11:11
Date Received: 12/20/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	110	E	ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-04

Date Collected: 12/19/13 11:11

Client ID: DUP-001-20131219-01

Date Received: 12/20/13

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	440	E	ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

SAMPLE RESULTS

Lab ID: L1325962-04

Date Collected: 12/19/13 11:11

Client ID: DUP-001-20131219-01

Date Received: 12/20/13

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-04 D
 Client ID: DUP-001-20131219-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 12/29/13 18:37
 Analyst: MM

Date Collected: 12/19/13 11:11
 Date Received: 12/20/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	100		ug/l	10	--	20
Acetone	660		ug/l	100	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-05
 Client ID: TB-001-20131219-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 12/23/13 12:24
 Analyst: MM

Date Collected: 12/19/13 00:00
 Date Received: 12/20/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**SAMPLE RESULTS**

Lab ID: L1325962-05
 Client ID: TB-001-20131219-01
 Sample Location: BENNINGTON, VT

Date Collected: 12/19/13 00:00
 Date Received: 12/20/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

SAMPLE RESULTS

Lab ID: L1325962-05

Date Collected: 12/19/13 00:00

Client ID: TB-001-20131219-01

Date Received: 12/20/13

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/23/13 08:02
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG661225-3					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--



Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/23/13 08:02
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG661225-3					
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
Iodomethane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrolein	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--



Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/23/13 08:02
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG661225-3					
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,3,5-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Halothane	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	2.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/23/13 08:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG661225-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	110		70-130

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/27/13 06:25
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG662069-3					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--



Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/27/13 06:25
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG662069-3					
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
Iodomethane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrolein	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--



Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/27/13 06:25
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG662069-3					
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,3,5-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Halothane	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	2.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 12/27/13 06:25

Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG662069-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/29/13 09:11
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG662069-6					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--



Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/29/13 09:11
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG662069-6					
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
Iodomethane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrolein	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--



Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/29/13 09:11
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG662069-6					
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,3,5-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Halothane	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	2.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 12/29/13 09:11

Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG662069-6					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1325962

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG661225-1 WG661225-2								
Methylene chloride	88		90		70-130	2		20
1,1-Dichloroethane	90		90		70-130	0		20
Chloroform	101		100		70-130	1		20
Carbon tetrachloride	104		108		63-132	4		20
1,2-Dichloropropane	99		97		70-130	2		20
Dibromochloromethane	86		88		63-130	2		20
1,1,2-Trichloroethane	92		94		70-130	2		20
2-Chloroethylvinyl ether	60	Q	58	Q	70-130	3		20
Tetrachloroethene	98		99		70-130	1		20
Chlorobenzene	95		97		75-130	2		25
Trichlorofluoromethane	85		84		62-150	1		20
1,2-Dichloroethane	100		101		70-130	1		20
1,1,1-Trichloroethane	103		104		67-130	1		20
Bromodichloromethane	96		99		67-130	3		20
trans-1,3-Dichloropropene	88		89		70-130	1		20
cis-1,3-Dichloropropene	96		98		70-130	2		20
1,1-Dichloropropene	101		100		70-130	1		20
Bromoform	90		88		54-136	2		20
1,1,2,2-Tetrachloroethane	98		102		67-130	4		20
Benzene	98		98		70-130	0		25
Toluene	96		96		70-130	0		25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1325962

Report Date: 01/10/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG661225-1 WG661225-2								
Ethylbenzene	96		95		70-130	1		20
Chloromethane	98		92		64-130	6		20
Bromomethane	84		78		39-139	7		20
Vinyl chloride	93		94		55-140	1		20
Chloroethane	88		81		55-138	8		20
1,1-Dichloroethene	88		88		61-145	0		25
trans-1,2-Dichloroethene	88		90		70-130	2		20
Trichloroethene	100		100		70-130	0		25
1,2-Dichlorobenzene	95		98		70-130	3		20
1,3-Dichlorobenzene	94		98		70-130	4		20
1,4-Dichlorobenzene	96		99		70-130	3		20
Methyl tert butyl ether	89		89		63-130	0		20
p/m-Xylene	95		96		70-130	1		20
o-Xylene	94		96		70-130	2		20
cis-1,2-Dichloroethene	103		104		70-130	1		20
Dibromomethane	98		97		70-130	1		20
1,4-Dichlorobutane	94		100		70-130	6		20
Iodomethane	50	Q	55	Q	70-130	10		20
1,2,3-Trichloropropane	100		102		64-130	2		20
Styrene	94		95		70-130	1		20
Dichlorodifluoromethane	107		105		36-147	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1325962

Report Date: 01/10/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG661225-1 WG661225-2								
Acetone	100		84		58-148	17		20
Carbon disulfide	83		86		51-130	4		20
2-Butanone	110		104		63-138	6		20
Vinyl acetate	94		94		70-130	0		20
4-Methyl-2-pentanone	97		102		59-130	5		20
2-Hexanone	98		95		57-130	3		20
Ethyl methacrylate	94		94		70-130	0		20
Acrolein	64	Q	67	Q	70-130	5		20
Acrylonitrile	99		102		70-130	3		20
Bromochloromethane	104		102		70-130	2		20
Tetrahydrofuran	104		100		58-130	4		20
2,2-Dichloropropane	108		104		63-133	4		20
1,2-Dibromoethane	97		96		70-130	1		20
1,3-Dichloropropane	94		95		70-130	1		20
1,1,1,2-Tetrachloroethane	89		89		64-130	0		20
Bromobenzene	98		101		70-130	3		20
n-Butylbenzene	93		96		53-136	3		20
sec-Butylbenzene	94		97		70-130	3		20
tert-Butylbenzene	95		98		70-130	3		20
o-Chlorotoluene	96		98		70-130	2		20
p-Chlorotoluene	98		100		70-130	2		20

Lab Control Sample Analysis Batch Quality Control

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Lab Number: L1325962

Report Date: 01/10/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG661225-1 WG661225-2								
1,2-Dibromo-3-chloropropane	106		101		41-144	5		20
Hexachlorobutadiene	103		107		63-130	4		20
Isopropylbenzene	95		100		70-130	5		20
p-Isopropyltoluene	94		98		70-130	4		20
Naphthalene	93		96		70-130	3		20
n-Propylbenzene	95		98		69-130	3		20
1,2,3-Trichlorobenzene	99		103		70-130	4		20
1,2,4-Trichlorobenzene	95		100		70-130	5		20
1,3,5-Trimethylbenzene	96		99		64-130	3		20
1,3,5-Trichlorobenzene	96		100		70-130	4		20
1,2,4-Trimethylbenzene	94		100		70-130	6		20
trans-1,4-Dichloro-2-butene	93		95		70-130	2		20
Halothane	95		98		70-130	3		20
Ethyl ether	89		88		59-134	1		20
Methyl Acetate	100		99		70-130	1		20
Ethyl Acetate	98		98		70-130	0		20
Isopropyl Ether	98		97		70-130	1		20
Cyclohexane	98		97		70-130	1		20
Tert-Butyl Alcohol	91		92		70-130	1		20
Ethyl-Tert-Butyl-Ether	99		98		70-130	1		20
Tertiary-Amyl Methyl Ether	97		98		66-130	1		20

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG661225-1 WG661225-2								
1,4-Dioxane	127		135		56-162	6		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	89		88		70-130	1		20
Methyl cyclohexane	98		98		70-130	0		20
p-Diethylbenzene	97		98		70-130	1		20
4-Ethyltoluene	96		99		70-130	3		20
1,2,4,5-Tetramethylbenzene	100		101		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		95		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	100		107		70-130
Dibromofluoromethane	102		99		70-130

Lab Control Sample Analysis Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-1 WG662069-2								
Methylene chloride	84		82		70-130	2		20
1,1-Dichloroethane	85		81		70-130	5		20
Chloroform	104		104		70-130	0		20
Carbon tetrachloride	106		107		63-132	1		20
1,2-Dichloropropane	99		101		70-130	2		20
Dibromochloromethane	84		90		63-130	7		20
1,1,2-Trichloroethane	93		101		70-130	8		20
2-Chloroethylvinyl ether	65	Q	65	Q	70-130	0		20
Tetrachloroethene	99		106		70-130	7		20
Chlorobenzene	94		97		75-130	3		25
Trichlorofluoromethane	78		74		62-150	5		20
1,2-Dichloroethane	100		103		70-130	3		20
1,1,1-Trichloroethane	105		106		67-130	1		20
Bromodichloromethane	98		100		67-130	2		20
trans-1,3-Dichloropropene	82		91		70-130	10		20
cis-1,3-Dichloropropene	96		100		70-130	4		20
1,1-Dichloropropene	102		102		70-130	0		20
Bromoform	87		95		54-136	9		20
1,1,2,2-Tetrachloroethane	94		99		67-130	5		20
Benzene	100		101		70-130	1		25
Toluene	94		97		70-130	3		25

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-1 WG662069-2								
Ethylbenzene	95		98		70-130	3		20
Chloromethane	97		102		64-130	5		20
Bromomethane	82		67		39-139	20		20
Vinyl chloride	94		83		55-140	12		20
Chloroethane	83		85		55-138	2		20
1,1-Dichloroethene	83		70		61-145	17		25
trans-1,2-Dichloroethene	83		81		70-130	2		20
Trichloroethene	103		105		70-130	2		25
1,2-Dichlorobenzene	92		101		70-130	9		20
1,3-Dichlorobenzene	95		92		70-130	3		20
1,4-Dichlorobenzene	93		94		70-130	1		20
Methyl tert butyl ether	83		82		63-130	1		20
p/m-Xylene	95		97		70-130	2		20
o-Xylene	93		97		70-130	4		20
cis-1,2-Dichloroethene	102		96		70-130	6		20
Dibromomethane	100		105		70-130	5		20
1,4-Dichlorobutane	95		94		70-130	1		20
Iodomethane	52	Q	57	Q	70-130	9		20
1,2,3-Trichloropropane	98		96		64-130	2		20
Styrene	92		95		70-130	3		20
Dichlorodifluoromethane	97		95		36-147	2		20

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-1 WG662069-2								
Acetone	82		81		58-148	1		20
Carbon disulfide	76		66		51-130	14		20
2-Butanone	105		113		63-138	7		20
Vinyl acetate	95		87		70-130	9		20
4-Methyl-2-pentanone	92		110		59-130	18		20
2-Hexanone	91		97		57-130	6		20
Ethyl methacrylate	91		102		70-130	11		20
Acrolein	89		75		70-130	17		20
Acrylonitrile	96		100		70-130	4		20
Bromochloromethane	105		105		70-130	0		20
Tetrahydrofuran	102		109		58-130	7		20
2,2-Dichloropropane	106		105		63-133	1		20
1,2-Dibromoethane	94		103		70-130	9		20
1,3-Dichloropropane	96		102		70-130	6		20
1,1,1,2-Tetrachloroethane	86		90		64-130	5		20
Bromobenzene	97		98		70-130	1		20
n-Butylbenzene	91		100		53-136	9		20
sec-Butylbenzene	91		93		70-130	2		20
tert-Butylbenzene	84		93		70-130	10		20
o-Chlorotoluene	94		93		70-130	1		20
p-Chlorotoluene	97		95		70-130	2		20

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-1 WG662069-2								
1,2-Dibromo-3-chloropropane	96		114		41-144	17		20
Hexachlorobutadiene	111		115		63-130	4		20
Isopropylbenzene	93		104		70-130	11		20
p-Isopropyltoluene	94		92		70-130	2		20
Naphthalene	87		98		70-130	12		20
n-Propylbenzene	93		92		69-130	1		20
1,2,3-Trichlorobenzene	100		111		70-130	10		20
1,2,4-Trichlorobenzene	97		105		70-130	8		20
1,3,5-Trimethylbenzene	95		95		64-130	0		20
1,3,5-Trichlorobenzene	91		110		70-130	19		20
1,2,4-Trimethylbenzene	86		94		70-130	9		20
trans-1,4-Dichloro-2-butene	92		89		70-130	3		20
Halothane	82		82		70-130	0		20
Ethyl ether	81		74		59-134	9		20
Methyl Acetate	95		98		70-130	3		20
Ethyl Acetate	100		101		70-130	1		20
Isopropyl Ether	92		94		70-130	2		20
Cyclohexane	105		108		70-130	3		20
Tert-Butyl Alcohol	85		86		70-130	1		20
Ethyl-Tert-Butyl-Ether	99		92		70-130	7		20
Tertiary-Amyl Methyl Ether	96		100		66-130	4		20

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-1 WG662069-2								
1,4-Dioxane	132		149		56-162	12		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	80		68	Q	70-130	16		20
Methyl cyclohexane	98		100		70-130	2		20
p-Diethylbenzene	94		100		70-130	6		20
4-Ethyltoluene	95		93		70-130	2		20
1,2,4,5-Tetramethylbenzene	95		106		70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		95		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	103		99		70-130
Dibromofluoromethane	99		103		70-130

Lab Control Sample Analysis Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-4 WG662069-5								
Methylene chloride	104		101		70-130	3		20
1,1-Dichloroethane	105		104		70-130	1		20
Chloroform	106		104		70-130	2		20
Carbon tetrachloride	98		98		63-132	0		20
1,2-Dichloropropane	105		104		70-130	1		20
Dibromochloromethane	108		108		63-130	0		20
1,1,2-Trichloroethane	105		104		70-130	1		20
2-Chloroethylvinyl ether	98		108		70-130	10		20
Tetrachloroethene	109		106		70-130	3		20
Chlorobenzene	105		103		75-130	2		25
Trichlorofluoromethane	111		106		62-150	5		20
1,2-Dichloroethane	105		104		70-130	1		20
1,1,1-Trichloroethane	111		110		67-130	1		20
Bromodichloromethane	104		104		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	104		104		70-130	0		20
1,1-Dichloropropene	107		105		70-130	2		20
Bromoform	102		101		54-136	1		20
1,1,2,2-Tetrachloroethane	101		100		67-130	1		20
Benzene	108		105		70-130	3		25
Toluene	104		102		70-130	2		25

Lab Control Sample Analysis Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-4 WG662069-5								
Ethylbenzene	109		106		70-130	3		20
Chloromethane	102		100		64-130	2		20
Bromomethane	106		104		39-139	2		20
Vinyl chloride	100		98		55-140	2		20
Chloroethane	102		100		55-138	2		20
1,1-Dichloroethene	108		105		61-145	3		25
trans-1,2-Dichloroethene	107		105		70-130	2		20
Trichloroethene	108		105		70-130	3		25
1,2-Dichlorobenzene	104		102		70-130	2		20
1,3-Dichlorobenzene	104		102		70-130	2		20
1,4-Dichlorobenzene	104		102		70-130	2		20
Methyl tert butyl ether	110		109		63-130	1		20
p/m-Xylene	103		101		70-130	2		20
o-Xylene	104		102		70-130	2		20
cis-1,2-Dichloroethene	105		102		70-130	3		20
Dibromomethane	108		107		70-130	1		20
1,4-Dichlorobutane	98		96		70-130	2		20
Iodomethane	89		86		70-130	3		20
1,2,3-Trichloropropane	101		100		64-130	1		20
Styrene	112		110		70-130	2		20
Dichlorodifluoromethane	106		102		36-147	4		20

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-4 WG662069-5								
Acetone	153	Q	114		58-148	29	Q	20
Carbon disulfide	98		96		51-130	2		20
2-Butanone	135		107		63-138	23	Q	20
Vinyl acetate	101		101		70-130	0		20
4-Methyl-2-pentanone	102		103		59-130	1		20
2-Hexanone	122		98		57-130	22	Q	20
Ethyl methacrylate	102		102		70-130	0		20
Acrolein	104		101		70-130	3		20
Acrylonitrile	106		104		70-130	2		20
Bromochloromethane	112		110		70-130	2		20
Tetrahydrofuran	93		95		58-130	2		20
2,2-Dichloropropane	109		110		63-133	1		20
1,2-Dibromoethane	108		106		70-130	2		20
1,3-Dichloropropane	106		104		70-130	2		20
1,1,1,2-Tetrachloroethane	101		101		64-130	0		20
Bromobenzene	103		101		70-130	2		20
n-Butylbenzene	104		101		53-136	3		20
sec-Butylbenzene	109		106		70-130	3		20
tert-Butylbenzene	104		102		70-130	2		20
o-Chlorotoluene	101		98		70-130	3		20
p-Chlorotoluene	104		101		70-130	3		20

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-4 WG662069-5								
1,2-Dibromo-3-chloropropane	100		99		41-144	1		20
Hexachlorobutadiene	105		102		63-130	3		20
Isopropylbenzene	110		108		70-130	2		20
p-Isopropyltoluene	108		105		70-130	3		20
Naphthalene	103		100		70-130	3		20
n-Propylbenzene	108		106		69-130	2		20
1,2,3-Trichlorobenzene	102		100		70-130	2		20
1,2,4-Trichlorobenzene	102		98		70-130	4		20
1,3,5-Trimethylbenzene	106		102		64-130	4		20
1,3,5-Trichlorobenzene	105		104		70-130	1		20
1,2,4-Trimethylbenzene	105		103		70-130	2		20
trans-1,4-Dichloro-2-butene	92		95		70-130	3		20
Halothane	110		107		70-130	3		20
Ethyl ether	108		106		59-134	2		20
Methyl Acetate	103		100		70-130	3		20
Ethyl Acetate	106		106		70-130	0		20
Isopropyl Ether	104		102		70-130	2		20
Cyclohexane	100		98		70-130	2		20
Tert-Butyl Alcohol	104		98		70-130	6		20
Ethyl-Tert-Butyl-Ether	113		110		70-130	3		20
Tertiary-Amyl Methyl Ether	107		108		66-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1325962

Report Date: 01/10/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG662069-4 WG662069-5								
1,4-Dioxane	89		90		56-162	1		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		106		70-130	3		20
Methyl cyclohexane	108		105		70-130	3		20
p-Diethylbenzene	108		105		70-130	3		20
4-Ethyltoluene	108		106		70-130	2		20
1,2,4,5-Tetramethylbenzene	103		100		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	101		101		70-130

Project Name: ENERGIZER

Lab Number: L1325962

Project Number: 0193792

Report Date: 01/10/14

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325962-01A	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-01B	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-01C	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-02A	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-02B	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-02C	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-03A	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-03B	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-03C	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-04A	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-04B	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-04C	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)
L1325962-05A	Vial HCl preserved	A	N/A	4.1	Y	Absent	8260(14)

*Values in parentheses indicate holding time in days



Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report



Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14**Data Qualifiers**

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: ENERGIZER**Lab Number:** L1325962**Project Number:** 0193792**Report Date:** 01/10/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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



Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd In Lab: 12/20/13

ALPHA Job #: L1325962

Client Information

Client: ERM
Address: 35 Park Row West
Providence RI
Phone: 1 401 415 9600
Email: Ethan.byles@ERM.com

Project Information

Project Name: Energizer
Project Location: Bennington VT
Project #: 0193792
Project Manager: Ethan byles
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 12/30/13

Report Information - Data Deliverables

☒ ADEX ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program Criteria

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	VOC: ☒	SVOC: ☐	METAL ☐	METAL ☐	EPH: ☐	VPH: ☐	☐ PCB	TPH: ☐																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Container Type

P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative

A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= NaOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type V

Preservative B

Relinquished By:

Date/Time

Received By:

Date/Time

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd In Lab: 12/20/13

ALPHA Job #: L1325962

Client Information

Client: ERM
Address: 35 Park Row West
Providence RI

Phone: 1 401 415 9600

Email: Ethan.byles@ERM.com

Additional Project Information:

Project Information

Project Name: Energizer
Project Location: Bennington VT
Project #: 0193792
Project Manager: Ethan byles
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 12/30/13

Report Information - Data Deliverables

☒ ADEX ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
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☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program Criteria

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	VOC: ☒	SVOC: ☐	METAL ☐	METAL ☐	EPH: ☐	VPH: ☐	☐ PCB	TPH: ☐																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Container Type

P= Plastic
A= Amber glass
V= Vial
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B= Bacteria cup
C= Cube
O= Other
E= Encore
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Preservative

A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= NaOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type V

Preservative B

Relinquished By:

Date/Time

Received By:

Date/Time

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



ANALYTICAL REPORT

Lab Number:	L1406286
Client:	ERM, Inc. 1 Beacon Street 5th Floor Boston, MA 02108
ATTN:	Ethan Gyles
Phone:	(617) 646-7800
Project Name:	ENERGIZER
Project Number:	0193792
Report Date:	04/03/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: ENERGIZER
Project Number: 0193792

Lab Number: L1406286
Report Date: 04/03/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1406286-01	DUP-001-20140325-01	BENNINGTON, VT	03/25/14 11:11
L1406286-02	ERM-16-20140325-01	BENNINGTON, VT	03/25/14 10:00
L1406286-03	ERM-12-20140325-01	BENNINGTON, VT	03/25/14 10:30
L1406286-04	ERM-5S-20140325-01	BENNINGTON, VT	03/25/14 11:00
L1406286-05	ERM-13-20140325-01	BENNINGTON, VT	03/25/14 11:30
L1406286-06	EB-001-20140325-01	BENNINGTON, VT	03/25/14 10:10
L1406286-07	TB-001-20140325-01	BENNINGTON, VT	03/25/14 00:00

Project Name: ENERGIZER
Project Number: 0193792

Lab Number: L1406286
Report Date: 04/03/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 04/03/14

ORGANICS

VOLATILES

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-01
Client ID: DUP-001-20140325-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/02/14 16:27
Analyst: PD

Date Collected: 03/25/14 11:11
Date Received: 03/26/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	100		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

SAMPLE RESULTS

Lab ID: L1406286-01

Date Collected: 03/25/14 11:11

Client ID: DUP-001-20140325-01

Date Received: 03/26/14

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	7.4		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-01

Date Collected: 03/25/14 11:11

Client ID: DUP-001-20140325-01

Date Received: 03/26/14

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	95		70-130

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-02
Client ID: ERM-16-20140325-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/02/14 17:00
Analyst: PD

Date Collected: 03/25/14 10:00
Date Received: 03/26/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	14		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

SAMPLE RESULTS

Lab ID: L1406286-02
 Client ID: ERM-16-20140325-01
 Sample Location: BENNINGTON, VT

Date Collected: 03/25/14 10:00
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-02
 Client ID: ERM-16-20140325-01
 Sample Location: BENNINGTON, VT

Date Collected: 03/25/14 10:00
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	96		70-130

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-03
Client ID: ERM-12-20140325-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/02/14 17:32
Analyst: PD

Date Collected: 03/25/14 10:30
Date Received: 03/26/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	100		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-03
 Client ID: ERM-12-20140325-01
 Sample Location: BENNINGTON, VT

Date Collected: 03/25/14 10:30
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	8.0		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-03
 Client ID: ERM-12-20140325-01
 Sample Location: BENNINGTON, VT

Date Collected: 03/25/14 10:30
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	97		70-130

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-04
Client ID: ERM-5S-20140325-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/02/14 18:04
Analyst: PD

Date Collected: 03/25/14 11:00
Date Received: 03/26/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	0.91		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

SAMPLE RESULTS

Lab ID: L1406286-04
 Client ID: ERM-5S-20140325-01
 Sample Location: BENNINGTON, VT

Date Collected: 03/25/14 11:00
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	760	E	ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-04
 Client ID: ERM-5S-20140325-01
 Sample Location: BENNINGTON, VT

Date Collected: 03/25/14 11:00
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	95		70-130

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-04 D
 Client ID: ERM-5S-20140325-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/03/14 13:13
 Analyst: PD

Date Collected: 03/25/14 11:00
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Acetone	740		ug/l	50	--	10
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-05
Client ID: ERM-13-20140325-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/02/14 18:37
Analyst: PD

Date Collected: 03/25/14 11:30
Date Received: 03/26/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

SAMPLE RESULTS

Lab ID: L1406286-05
 Client ID: ERM-13-20140325-01
 Sample Location: BENNINGTON, VT

Date Collected: 03/25/14 11:30
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	1000	E	ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-05
 Client ID: ERM-13-20140325-01
 Sample Location: BENNINGTON, VT

Date Collected: 03/25/14 11:30
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	98		70-130

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-05 D
 Client ID: ERM-13-20140325-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/03/14 13:50
 Analyst: PD

Date Collected: 03/25/14 11:30
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Acetone	900		ug/l	100	--	20
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-06
 Client ID: EB-001-20140325-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/03/14 12:37
 Analyst: PD

Date Collected: 03/25/14 10:10
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-06

Date Collected: 03/25/14 10:10

Client ID: EB-001-20140325-01

Date Received: 03/26/14

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	45		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-06

Date Collected: 03/25/14 10:10

Client ID: EB-001-20140325-01

Date Received: 03/26/14

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-07
Client ID: TB-001-20140325-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/02/14 19:41
Analyst: PD

Date Collected: 03/25/14 00:00
Date Received: 03/26/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-07
 Client ID: TB-001-20140325-01
 Sample Location: BENNINGTON, VT

Date Collected: 03/25/14 00:00
 Date Received: 03/26/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**SAMPLE RESULTS**

Lab ID: L1406286-07

Date Collected: 03/25/14 00:00

Client ID: TB-001-20140325-01

Date Received: 03/26/14

Sample Location: BENNINGTON, VT

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	97		70-130

Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/02/14 15:55
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG679800-3					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--



Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/02/14 15:55
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG679800-3					
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--



Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/02/14 15:55
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG679800-3					
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	93		70-130

Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/03/14 12:00
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-06 Batch: WG679800-6					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--



Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/03/14 12:00
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-06 Batch: WG679800-6					
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--



Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/03/14 12:00
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-06 Batch: WG679800-6					
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1406286

Report Date: 04/03/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG679800-1 WG679800-2								
Methylene chloride	93		95		70-130	2		20
1,1-Dichloroethane	93		94		70-130	1		20
Chloroform	93		93		70-130	0		20
Carbon tetrachloride	84		84		63-132	0		20
1,2-Dichloropropane	91		91		70-130	0		20
Dibromochloromethane	89		91		63-130	2		20
1,1,2-Trichloroethane	93		96		70-130	3		20
Tetrachloroethene	90		91		70-130	1		20
Chlorobenzene	93		93		75-130	0		25
Trichlorofluoromethane	86		85		62-150	1		20
1,2-Dichloroethane	94		96		70-130	2		20
1,1,1-Trichloroethane	90		90		67-130	0		20
Bromodichloromethane	90		91		67-130	1		20
trans-1,3-Dichloropropene	92		95		70-130	3		20
cis-1,3-Dichloropropene	90		91		70-130	1		20
1,1-Dichloropropene	82		80		70-130	2		20
Bromoform	78		79		54-136	1		20
1,1,2,2-Tetrachloroethane	93		93		67-130	0		20
Benzene	90		90		70-130	0		25
Toluene	93		93		70-130	0		25
Ethylbenzene	95		94		70-130	1		20

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1406286

Report Date: 04/03/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG679800-1 WG679800-2								
Chloromethane	96		94		64-130	2		20
Bromomethane	106		106		39-139	0		20
Vinyl chloride	92		92		55-140	0		20
Chloroethane	90		92		55-138	2		20
1,1-Dichloroethene	95		93		61-145	2		25
trans-1,2-Dichloroethene	92		93		70-130	1		20
Trichloroethene	90		90		70-130	0		25
1,2-Dichlorobenzene	97		96		70-130	1		20
1,3-Dichlorobenzene	97		95		70-130	2		20
1,4-Dichlorobenzene	93		93		70-130	0		20
Methyl tert butyl ether	102		106		63-130	4		20
p/m-Xylene	97		96		70-130	1		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	91		92		70-130	1		20
Dibromomethane	92		94		70-130	2		20
1,4-Dichlorobutane	101		101		70-130	0		20
1,2,3-Trichloropropane	103		104		64-130	1		20
Styrene	102		102		70-130	0		20
Dichlorodifluoromethane	98		96		36-147	2		20
Acetone	62		67		58-148	8		20
Carbon disulfide	97		95		51-130	2		20

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1406286

Report Date: 04/03/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG679800-1 WG679800-2								
2-Butanone	87		90		63-138	3		20
Vinyl acetate	96		98		70-130	2		20
4-Methyl-2-pentanone	84		88		59-130	5		20
2-Hexanone	90		92		57-130	2		20
Ethyl methacrylate	83		85		70-130	2		20
Acrylonitrile	95		99		70-130	4		20
Bromochloromethane	91		91		70-130	0		20
Tetrahydrofuran	98		103		58-130	5		20
2,2-Dichloropropane	96		94		63-133	2		20
1,2-Dibromoethane	93		96		70-130	3		20
1,3-Dichloropropane	95		97		70-130	2		20
1,1,1,2-Tetrachloroethane	91		92		64-130	1		20
Bromobenzene	97		96		70-130	1		20
n-Butylbenzene	76		83		53-136	9		20
sec-Butylbenzene	92		93		70-130	1		20
tert-Butylbenzene	95		96		70-130	1		20
o-Chlorotoluene	102		97		70-130	5		20
p-Chlorotoluene	102		100		70-130	2		20
1,2-Dibromo-3-chloropropane	90		94		41-144	4		20
Hexachlorobutadiene	94		92		63-130	2		20
Isopropylbenzene	100		98		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1406286

Report Date: 04/03/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG679800-1 WG679800-2								
p-Isopropyltoluene	82		86		70-130	5		20
Naphthalene	64	Q	68	Q	70-130	6		20
n-Propylbenzene	98		98		69-130	0		20
1,2,3-Trichlorobenzene	74		80		70-130	8		20
1,2,4-Trichlorobenzene	69	Q	75		70-130	8		20
1,3,5-Trimethylbenzene	95		95		64-130	0		20
1,2,4-Trimethylbenzene	88		93		70-130	6		20
trans-1,4-Dichloro-2-butene	94		94		70-130	0		20
Ethyl ether	113		115		59-134	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	108		105		70-130
Dibromofluoromethane	97		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1406286

Report Date: 04/03/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG679800-4 WG679800-5								
Methylene chloride	113		90		70-130	23	Q	20
1,1-Dichloroethane	117		94		70-130	22	Q	20
Chloroform	123		98		70-130	23	Q	20
Carbon tetrachloride	110		93		63-132	17		20
1,2-Dichloropropane	116		89		70-130	26	Q	20
Dibromochloromethane	109		88		63-130	21	Q	20
1,1,2-Trichloroethane	118		95		70-130	22	Q	20
Tetrachloroethene	105		91		70-130	14		20
Chlorobenzene	114		91		75-130	22		25
Trichlorofluoromethane	114		101		62-150	12		20
1,2-Dichloroethane	128		102		70-130	23	Q	20
1,1,1-Trichloroethane	113		96		67-130	16		20
Bromodichloromethane	120		96		67-130	22	Q	20
trans-1,3-Dichloropropene	117		91		70-130	25	Q	20
cis-1,3-Dichloropropene	115		93		70-130	21	Q	20
1,1-Dichloropropene	112		91		70-130	21	Q	20
Bromoform	101		83		54-136	20		20
1,1,2,2-Tetrachloroethane	110		93		67-130	17		20
Benzene	112		95		70-130	16		25
Toluene	113		92		70-130	20		25
Ethylbenzene	114		94		70-130	19		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1406286

Report Date: 04/03/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG679800-4 WG679800-5								
Chloromethane	120		90		64-130	29	Q	20
Bromomethane	135		141	Q	39-139	4		20
Vinyl chloride	108		91		55-140	17		20
Chloroethane	116		95		55-138	20		20
1,1-Dichloroethene	106		90		61-145	16		25
trans-1,2-Dichloroethene	112		92		70-130	20		20
Trichloroethene	109		93		70-130	16		25
1,2-Dichlorobenzene	107		91		70-130	16		20
1,3-Dichlorobenzene	108		91		70-130	17		20
1,4-Dichlorobenzene	107		91		70-130	16		20
Methyl tert butyl ether	115		90		63-130	24	Q	20
p/m-Xylene	110		90		70-130	20		20
o-Xylene	111		91		70-130	20		20
cis-1,2-Dichloroethene	113		91		70-130	22	Q	20
Dibromomethane	118		94		70-130	23	Q	20
1,4-Dichlorobutane	112		93		70-130	19		20
1,2,3-Trichloropropane	118		97		64-130	20		20
Styrene	118		95		70-130	22	Q	20
Dichlorodifluoromethane	91		86		36-147	6		20
Acetone	106		83		58-148	24	Q	20
Carbon disulfide	100		80		51-130	22	Q	20

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1406286

Report Date: 04/03/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG679800-4 WG679800-5								
2-Butanone	109		81		63-138	29	Q	20
Vinyl acetate	108		84		70-130	25	Q	20
4-Methyl-2-pentanone	103		90		59-130	13		20
2-Hexanone	115		87		57-130	28	Q	20
Ethyl methacrylate	114		90		70-130	24	Q	20
Acrylonitrile	123		89		70-130	32	Q	20
Bromochloromethane	118		95		70-130	22	Q	20
Tetrahydrofuran	111		92		58-130	19		20
2,2-Dichloropropane	111		90		63-133	21	Q	20
1,2-Dibromoethane	116		91		70-130	24	Q	20
1,3-Dichloropropane	123		96		70-130	25	Q	20
1,1,1,2-Tetrachloroethane	114		92		64-130	21	Q	20
Bromobenzene	109		91		70-130	18		20
n-Butylbenzene	105		93		53-136	12		20
sec-Butylbenzene	106		92		70-130	14		20
tert-Butylbenzene	106		91		70-130	15		20
o-Chlorotoluene	111		94		70-130	17		20
p-Chlorotoluene	111		95		70-130	16		20
1,2-Dibromo-3-chloropropane	102		91		41-144	11		20
Hexachlorobutadiene	104		92		63-130	12		20
Isopropylbenzene	112		94		70-130	17		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: 0193792

Lab Number: L1406286

Report Date: 04/03/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG679800-4 WG679800-5								
p-Isopropyltoluene	107		92		70-130	15		20
Naphthalene	81		85		70-130	5		20
n-Propylbenzene	111		97		69-130	13		20
1,2,3-Trichlorobenzene	98		91		70-130	7		20
1,2,4-Trichlorobenzene	97		88		70-130	10		20
1,3,5-Trimethylbenzene	113		96		64-130	16		20
1,2,4-Trimethylbenzene	110		97		70-130	13		20
trans-1,4-Dichloro-2-butene	107		90		70-130	17		20
Ethyl ether	116		99		59-134	16		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		108		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	101		100		70-130

Project Name: ENERGIZER

Lab Number: L1406286

Project Number: 0193792

Report Date: 04/03/14

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1406286-01A	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-01B	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-01C	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-02A	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-02B	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-02C	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-03A	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-03B	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-03C	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-04A	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-04B	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-04C	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-05A	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-05B	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-05C	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-06A	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-06B	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-06C	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-07A	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)
L1406286-07B	Vial HCl preserved	A	N/A	2.7	Y	Absent	8260(14)

*Values in parentheses indicate holding time in days



Project Name: ENERGIZER
Project Number: 0193792

Lab Number: L1406286
Report Date: 04/03/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report



Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14**Data Qualifiers**

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: ENERGIZER**Lab Number:** L1406286**Project Number:** 0193792**Report Date:** 04/03/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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



Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

CHAIN OF CUSTODY

PAGE 1 OF 1

Project Information

Project Name: Energizer
Project Location: Bennington VT
Project #: 0193792
Project Manager: Ethan Byles
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 3/02/14

Date Rec'd in Lab: 3/26/14ALPHA Job #: 11406286

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☒ Same as Client Info PO #:

Regulatory Requirements & Project Information Requirements

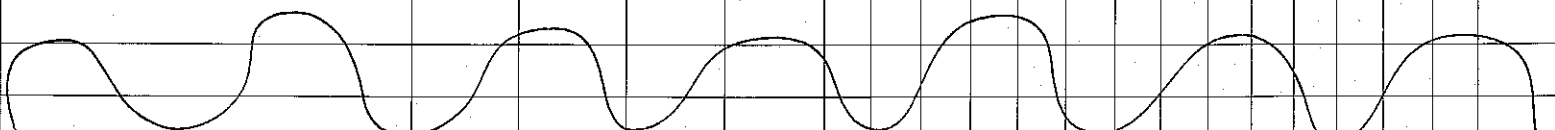
☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Client Information

Client: ERM
Address: 15 Park Row West suite 104
Providence RI 02903
Phone: 1401 415 9600
Email: Ethan.Byles@ERM.com

Additional Project Information:

ANALYSIS										TOTAL # BOTTLES			
VOC: ☒ 8260	☐ 624	☐ 524.2	SVOC: ☐ ABN	☐ PAH	METALS: ☐ MCP 13	☐ MCP 14	☐ RCP 15	EPH: ☐ RCRA5	☐ RCRA8	☐ PP13	Bottle #	SAMPLE INFO	
VPH: ☐ Ranges & Targets										☐ Ranges Only			Filtration ☐ Field ☐ Lab to do Preservation ☐ Lab to do
PCB										☐ PEST			
TPH: ☐ Quant Only										☐ Fingerprint			
Sample Comments													

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	VOC: ☒	SVOC: ☒	METAL ☒	METAL ☒	EPH: ☒	VPH: ☒	PCB ☒	TPH: ☒						BOTTLES	Sample Comments
		Date	Time																	
06286.1	DUP-001-20140325-01	3/25/14	11:11	GW	SML	X													3	
2	ERM-16-20140325-01	3/25/14	10:00	GW	SML	X													3	
3	ERM-12-20140325-01	3/25/14	10:30	GW	SML	X													3	
4	ERM-55-20140325-01	3/25/14	11:00	GW	SML	X													3	
5	ERM-13-20140325-01	3/25/14	11:30	GW	SML	X													3	
6	EB-001-20140325-01	3/25/14	10:10	GW	SML	X													3	
7	TB-001-20140325-01	3/8/14	11:11	GW	SML	X													2	
																				
SML																				

Container Type

P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative

A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type: VPreservative: BRelinquished By: [Signature]Date/Time: 3/26/14 11:20amReceived By: [Signature]Date/Time: 3/26/14 11:20am

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



ANALYTICAL REPORT

Lab Number:	L1421425
Client:	ERM, Inc. 15 Park Row West Suite 104 Providence, RI 02903
ATTN:	Ethan Gyles
Phone:	(401) 415-9606
Project Name:	ENERGIZER
Project Number:	Not Specified
Report Date:	09/22/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: ENERGIZER**Project Number:** Not Specified**Lab Number:** L1421425**Report Date:** 09/22/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1421425-01	DUP-001-20140916-01	WATER	BENNINGTON, VT	09/16/14 11:11	09/17/14
L1421425-02	TB-001-20140916-01	WATER	BENNINGTON, VT	09/16/14 11:11	09/17/14
L1421425-03	ERM-5S-20140916-01	WATER	BENNINGTON, VT	09/16/14 12:00	09/17/14
L1421425-04	ERM-8-20140916-01	WATER	BENNINGTON, VT	09/16/14 13:30	09/17/14
L1421425-05	ERM-11S-20140916-01	WATER	BENNINGTON, VT	09/16/14 12:30	09/17/14
L1421425-06	ERM-12-20140916-01	WATER	BENNINGTON, VT	09/16/14 13:00	09/17/14
L1421425-07	ERM-16-20140916-01	WATER	BENNINGTON, VT	09/16/14 14:10	09/17/14

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 09/22/14

ORGANICS

VOLATILES

Project Name: ENERGIZER

Lab Number: L1421425

Project Number: Not Specified

Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-01
 Client ID: DUP-001-20140916-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/21/14 21:40
 Analyst: PD

Date Collected: 09/16/14 11:11
 Date Received: 09/17/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	2.0		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	0.86		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-01
Client ID: DUP-001-20140916-01
Sample Location: BENNINGTON, VT

Date Collected: 09/16/14 11:11
Date Received: 09/17/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	97		70-130

Project Name: ENERGIZER

Lab Number: L1421425

Project Number: Not Specified

Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-02
 Client ID: TB-001-20140916-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/21/14 21:08
 Analyst: PD

Date Collected: 09/16/14 11:11
 Date Received: 09/17/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	62		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	3.5		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-02
Client ID: TB-001-20140916-01
Sample Location: BENNINGTON, VT

Date Collected: 09/16/14 11:11
Date Received: 09/17/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-03
 Client ID: ERM-5S-20140916-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/21/14 22:12
 Analyst: PD

Date Collected: 09/16/14 12:00
 Date Received: 09/17/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-03
Client ID: ERM-5S-20140916-01
Sample Location: BENNINGTON, VT

Date Collected: 09/16/14 12:00
Date Received: 09/17/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	97		70-130

Project Name: ENERGIZER**Lab Number:** L1421425**Project Number:** Not Specified**Report Date:** 09/22/14**SAMPLE RESULTS**

Lab ID: L1421425-04
Client ID: ERM-8-20140916-01
Sample Location: BENNINGTON, VT
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/21/14 22:43
Analyst: PD

Date Collected: 09/16/14 13:30
Date Received: 09/17/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	2.0		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	0.87		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-04
Client ID: ERM-8-20140916-01
Sample Location: BENNINGTON, VT

Date Collected: 09/16/14 13:30
Date Received: 09/17/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	98		70-130

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-05
 Client ID: ERM-11S-20140916-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/21/14 23:15
 Analyst: PD

Date Collected: 09/16/14 12:30
 Date Received: 09/17/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	110		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-05
Client ID: ERM-11S-20140916-01
Sample Location: BENNINGTON, VT

Date Collected: 09/16/14 12:30
Date Received: 09/17/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	96		70-130

Project Name: ENERGIZER

Lab Number: L1421425

Project Number: Not Specified

Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-06
 Client ID: ERM-12-20140916-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/21/14 23:47
 Analyst: PD

Date Collected: 09/16/14 13:00
 Date Received: 09/17/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	140		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-06
Client ID: ERM-12-20140916-01
Sample Location: BENNINGTON, VT

Date Collected: 09/16/14 13:00
Date Received: 09/17/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	97		70-130

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-07
 Client ID: ERM-16-20140916-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/22/14 00:18
 Analyst: PD

Date Collected: 09/16/14 14:10
 Date Received: 09/17/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	13		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	0.58		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

SAMPLE RESULTS

Lab ID: L1421425-07
Client ID: ERM-16-20140916-01
Sample Location: BENNINGTON, VT

Date Collected: 09/16/14 14:10
Date Received: 09/17/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	97		70-130

Project Name: ENERGIZER

Lab Number: L1421425

Project Number: Not Specified

Report Date: 09/22/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/21/14 17:25
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG724063-3					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--

Project Name: ENERGIZER

Lab Number: L1421425

Project Number: Not Specified

Report Date: 09/22/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/21/14 17:25
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG724063-3					
1,2-Dichloroethene, Total	ND		ug/l	0.50	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrolein	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--

Project Name: ENERGIZER

Lab Number: L1421425

Project Number: Not Specified

Report Date: 09/22/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/21/14 17:25
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG724063-3					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,3,5-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Halothane	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	2.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--

Project Name: ENERGIZER

Lab Number: L1421425

Project Number: Not Specified

Report Date: 09/22/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/21/14 17:25
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG724063-3					
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: Not Specified

Lab Number: L1421425

Report Date: 09/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG724063-1 WG724063-2								
Methylene chloride	101		102		70-130	1		20
1,1-Dichloroethane	100		101		70-130	1		20
Chloroform	101		102		70-130	1		20
Carbon tetrachloride	99		97		63-132	2		20
1,2-Dichloropropane	100		102		70-130	2		20
Dibromochloromethane	98		98		63-130	0		20
1,1,2-Trichloroethane	105		105		70-130	0		20
2-Chloroethylvinyl ether	100		102		70-130	2		20
Tetrachloroethene	104		102		70-130	2		20
Chlorobenzene	102		102		75-130	0		25
Trichlorofluoromethane	96		94		62-150	2		20
1,2-Dichloroethane	101		103		70-130	2		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	99		101		67-130	2		20
trans-1,3-Dichloropropene	101		100		70-130	1		20
cis-1,3-Dichloropropene	104		104		70-130	0		20
1,1-Dichloropropene	100		99		70-130	1		20
Bromoform	102		102		54-136	0		20
1,1,2,2-Tetrachloroethane	101		101		67-130	0		20
Benzene	101		102		70-130	1		25
Toluene	99		98		70-130	1		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: Not Specified

Lab Number: L1421425

Report Date: 09/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG724063-1 WG724063-2								
Ethylbenzene	101		101		70-130	0		20
Chloromethane	78		79		64-130	1		20
Bromomethane	82		86		39-139	5		20
Vinyl chloride	88		86		55-140	2		20
Chloroethane	117		105		55-138	11		20
1,1-Dichloroethene	98		98		61-145	0		25
trans-1,2-Dichloroethene	101		102		70-130	1		20
Trichloroethene	105		106		70-130	1		25
1,2-Dichlorobenzene	100		102		70-130	2		20
1,3-Dichlorobenzene	102		104		70-130	2		20
1,4-Dichlorobenzene	101		103		70-130	2		20
Methyl tert butyl ether	99		101		63-130	2		20
p/m-Xylene	106		106		70-130	0		20
o-Xylene	108		108		70-130	0		20
cis-1,2-Dichloroethene	100		103		70-130	3		20
Dibromomethane	102		104		70-130	2		20
1,4-Dichlorobutane	102		103		70-130	1		20
1,2,3-Trichloropropane	107		107		64-130	0		20
Styrene	108		109		70-130	1		20
Dichlorodifluoromethane	57		56		36-147	2		20
Acetone	117		115		58-148	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: Not Specified

Lab Number: L1421425

Report Date: 09/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG724063-1 WG724063-2								
Carbon disulfide	94		93		51-130	1		20
2-Butanone	118		118		63-138	0		20
Vinyl acetate	95		94		70-130	1		20
4-Methyl-2-pentanone	111		110		59-130	1		20
2-Hexanone	104		103		57-130	1		20
Ethyl methacrylate	102		103		70-130	1		20
Acrolein	104		101		70-130	3		20
Acrylonitrile	111		109		70-130	2		20
Bromochloromethane	110		110		70-130	0		20
Tetrahydrofuran	101		102		58-130	1		20
2,2-Dichloropropane	103		102		63-133	1		20
1,2-Dibromoethane	103		102		70-130	1		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	100		101		64-130	1		20
Bromobenzene	100		101		70-130	1		20
n-Butylbenzene	102		102		53-136	0		20
sec-Butylbenzene	103		103		70-130	0		20
tert-Butylbenzene	103		103		70-130	0		20
o-Chlorotoluene	100		102		70-130	2		20
p-Chlorotoluene	100		102		70-130	2		20
1,2-Dibromo-3-chloropropane	98		96		41-144	2		20

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: Not Specified

Lab Number: L1421425

Report Date: 09/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG724063-1 WG724063-2								
Hexachlorobutadiene	99		98		63-130	1		20
Isopropylbenzene	101		101		70-130	0		20
p-Isopropyltoluene	103		103		70-130	0		20
Naphthalene	97		98		70-130	1		20
n-Propylbenzene	102		103		69-130	1		20
1,2,3-Trichlorobenzene	97		98		70-130	1		20
1,2,4-Trichlorobenzene	96		97		70-130	1		20
1,3,5-Trimethylbenzene	104		104		64-130	0		20
1,3,5-Trichlorobenzene	98		100		70-130	2		20
1,2,4-Trimethylbenzene	102		103		70-130	1		20
trans-1,4-Dichloro-2-butene	104		101		70-130	3		20
Halothane	103		102		70-130	1		20
Ethyl ether	98		102		59-134	4		20
Methyl Acetate	108		107		70-130	1		20
Ethyl Acetate	100		98		70-130	2		20
Isopropyl Ether	100		102		70-130	2		20
Cyclohexane	100		98		70-130	2		20
Tert-Butyl Alcohol	114		114		70-130	0		20
Ethyl-Tert-Butyl-Ether	101		103		70-130	2		20
Tertiary-Amyl Methyl Ether	100		102		66-130	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		97		70-130	2		20

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: Not Specified

Lab Number: L1421425

Report Date: 09/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG724063-1 WG724063-2								
Methyl cyclohexane	102		101		70-130	1		20
p-Diethylbenzene	103		103		70-130	0		20
4-Ethyltoluene	103		104		70-130	1		20
1,2,4,5-Tetramethylbenzene	98		100		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		101		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	94		96		70-130
Dibromofluoromethane	102		104		70-130

Project Name: ENERGIZER

Lab Number: L1421425

Project Number: Not Specified

Report Date: 09/22/14

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421425-01A	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-01B	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-01C	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-02A	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-02B	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-02C	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-03A	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-03B	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-03C	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-04A	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-04B	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-04C	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-05A	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-05B	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-05C	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-06A	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-06B	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-06C	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-07A	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-07B	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)
L1421425-07C	Vial HCl preserved	A	N/A	3.4	Y	Absent	8260(14)

*Values in parentheses indicate holding time in days



Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: ENERGIZER
Project Number: Not Specified

Lab Number: L1421425
Report Date: 09/22/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables); **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Serial No: 09221421:44

ALPHA Job #: 61421425

Client Information

Client: ERM

Address: 15 Park Row west
Providence, RI, 02903

Phone: 401-415-79600

Fax:

Email: Ethan.Gyles@ERM.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Energizer

Project Location: Bennington, VT

Project #: 0252540

Project Manager: Ethan Gyles

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 9/25/14 Time:

Date Rec'd in Lab: 9/17/14

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										TOTAL # BOTTLES
		Date	Time													
21425-01	DUP-001-20140916-01	9/16/14	1111	6W	SML	X										3
02	TB-001-20140916-01		1111			X										3
03	ERM-55-20140916-01		1200			X										3
04	ERM-8-20140916-01		1330			X										3
05	ERM-115-20140916-01		1230			X										3
06	ERM-12-20140916-01		1300			X										3
07	ERM-16-20140916-01		1410			X										3
Sme																

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type V
Preservative B

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L1422398
Client:	ERM, Inc. 15 Park Row West Suite 104 Providence, RI 02903
ATTN:	Ethan Gyles
Phone:	(401) 415-9606
Project Name:	ENERGIZER
Project Number:	0252540
Report Date:	09/26/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: ENERGIZER
Project Number: 0252540

Lab Number: L1422398
Report Date: 09/26/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1422398-01	ERM-13-20140924-01	WATER	BENNINGTON, VT	09/24/14 10:00	09/24/14

Project Name: ENERGIZER
Project Number: 0252540

Lab Number: L1422398
Report Date: 09/26/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: ENERGIZER
Project Number: 0252540

Lab Number: L1422398
Report Date: 09/26/14

Case Narrative (continued)

Sample Receipt

The sample collection time was obtained from the container labels.

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

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 09/26/14

ORGANICS

VOLATILES

Project Name: ENERGIZER

Lab Number: L1422398

Project Number: 0252540

Report Date: 09/26/14

SAMPLE RESULTS

Lab ID: L1422398-01
 Client ID: ERM-13-20140924-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/25/14 13:08
 Analyst: PD

Date Collected: 09/24/14 10:00
 Date Received: 09/24/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1

Project Name: ENERGIZER

Lab Number: L1422398

Project Number: 0252540

Report Date: 09/26/14

SAMPLE RESULTS

Lab ID: L1422398-01
 Client ID: ERM-13-20140924-01
 Sample Location: BENNINGTON, VT

Date Collected: 09/24/14 10:00
 Date Received: 09/24/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	96		70-130

Project Name: ENERGIZER

Lab Number: L1422398

Project Number: 0252540

Report Date: 09/26/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/25/14 12:33
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG725643-3					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
1,2-Dichloroethene, Total	ND		ug/l	0.50	--

Project Name: ENERGIZER

Lab Number: L1422398

Project Number: 0252540

Report Date: 09/26/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/25/14 12:33
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG725643-3					
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--

Project Name: ENERGIZER

Lab Number: L1422398

Project Number: 0252540

Report Date: 09/26/14

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/25/14 12:33
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG725643-3					
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1422398

Report Date: 09/26/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG725643-1 WG725643-2								
Methylene chloride	102		100		70-130	2		20
1,1-Dichloroethane	116		110		70-130	5		20
Chloroform	109		109		70-130	0		20
Carbon tetrachloride	102		98		63-132	4		20
1,2-Dichloropropane	110		109		70-130	1		20
Dibromochloromethane	91		91		63-130	0		20
1,1,2-Trichloroethane	93		93		70-130	0		20
Tetrachloroethene	92		91		70-130	1		20
Chlorobenzene	99		100		75-130	1		25
Trichlorofluoromethane	97		93		62-150	4		20
1,2-Dichloroethane	121		120		70-130	1		20
1,1,1-Trichloroethane	110		107		67-130	3		20
Bromodichloromethane	108		106		67-130	2		20
trans-1,3-Dichloropropene	99		99		70-130	0		20
cis-1,3-Dichloropropene	104		102		70-130	2		20
1,1-Dichloropropene	106		102		70-130	4		20
Bromoform	80		80		54-136	0		20
1,1,2,2-Tetrachloroethane	93		93		67-130	0		20
Benzene	103		101		70-130	2		25
Toluene	104		103		70-130	1		25
Ethylbenzene	106		106		70-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1422398

Report Date: 09/26/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG725643-1 WG725643-2								
Chloromethane	65		63	Q	64-130	3		20
Bromomethane	84		81		39-139	4		20
Vinyl chloride	104		96		55-140	8		20
Chloroethane	105		102		55-138	3		20
1,1-Dichloroethene	94		91		61-145	3		25
trans-1,2-Dichloroethene	96		93		70-130	3		20
Trichloroethene	106		103		70-130	3		25
1,2-Dichlorobenzene	96		96		70-130	0		20
1,3-Dichlorobenzene	99		98		70-130	1		20
1,4-Dichlorobenzene	98		98		70-130	0		20
Methyl tert butyl ether	98		97		63-130	1		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	107		106		70-130	1		20
cis-1,2-Dichloroethene	98		101		70-130	3		20
Dibromomethane	96		95		70-130	1		20
1,4-Dichlorobutane	115		114		70-130	1		20
1,2,3-Trichloropropane	95		96		64-130	1		20
Styrene	104		104		70-130	0		20
Dichlorodifluoromethane	40		36		36-147	11		20
Acetone	122		125		58-148	2		20
Carbon disulfide	91		89		51-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1422398

Report Date: 09/26/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG725643-1 WG725643-2								
2-Butanone	128		123		63-138	4		20
Vinyl acetate	108		108		70-130	0		20
4-Methyl-2-pentanone	86		88		59-130	2		20
2-Hexanone	102		102		57-130	0		20
Ethyl methacrylate	92		92		70-130	0		20
Acrylonitrile	101		96		70-130	5		20
Bromochloromethane	100		100		70-130	0		20
Tetrahydrofuran	96		94		58-130	2		20
2,2-Dichloropropane	111		106		63-133	5		20
1,2-Dibromoethane	88		88		70-130	0		20
1,3-Dichloropropane	97		98		70-130	1		20
1,1,1,2-Tetrachloroethane	100		99		64-130	1		20
Bromobenzene	97		97		70-130	0		20
n-Butylbenzene	108		108		53-136	0		20
sec-Butylbenzene	106		105		70-130	1		20
tert-Butylbenzene	110		108		70-130	2		20
o-Chlorotoluene	111		110		70-130	1		20
p-Chlorotoluene	112		112		70-130	0		20
1,2-Dibromo-3-chloropropane	89		88		41-144	1		20
Hexachlorobutadiene	96		95		63-130	1		20
Isopropylbenzene	102		101		70-130	1		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1422398

Report Date: 09/26/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG725643-1 WG725643-2								
p-Isopropyltoluene	105		104		70-130	1		20
Naphthalene	86		86		70-130	0		20
n-Propylbenzene	108		106		69-130	2		20
1,2,3-Trichlorobenzene	84		86		70-130	2		20
1,2,4-Trichlorobenzene	87		87		70-130	0		20
1,3,5-Trimethylbenzene	109		109		64-130	0		20
1,2,4-Trimethylbenzene	104		105		70-130	1		20
trans-1,4-Dichloro-2-butene	99		101		70-130	2		20
Ethyl ether	94		94		59-134	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	122		121		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	113		113		70-130
Dibromofluoromethane	104		102		70-130

Project Name: ENERGIZER

Lab Number: L1422398

Project Number: 0252540

Report Date: 09/26/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1422398-01A	Vial HCl preserved	A	N/A	4.6	Y	Absent	8260(14)
L1422398-01B	Vial HCl preserved	A	N/A	4.6	Y	Absent	8260(14)
L1422398-01C	Vial HCl preserved	A	N/A	4.6	Y	Absent	8260(14)

*Values in parentheses indicate holding time in days

Project Name: ENERGIZER**Lab Number:** L1422398**Project Number:** 0252540**Report Date:** 09/26/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: ENERGIZER
Project Number: 0252540

Lab Number: L1422398
Report Date: 09/26/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: ENERGIZER**Lab Number:** L1422398**Project Number:** 0252540**Report Date:** 09/26/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables); **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

