

20 October 2016
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 #19
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.

Post-remediation quarterly monitoring began in December 2012 and continued on a quarterly basis through March 2014. Semi-annual sampling began in September 2014 and continued until September 2015.

In February 2016, VT DEC agreed to a revised monitoring schedule (per e-mail to ERM from Michael Smith, dated 8 February 2016), which includes annual sampling (September) of ERM-12 and ERM-16; and biennial

sampling (every other year in September) of ERM-8, ERM-11S and ERM-13.

Annual sampling began in September 2016.

RESULTS AND RECOMMENDATIONS

Groundwater samples were collected using passive diffusion bags (PDBs) from two monitoring wells during the September 2016 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 in September 2016 indicate the following:

- PCE concentrations in ERM-12 and ERM-16 increased slightly from 2015 to 2016 and continue to exceed the VT GWQS, but are not in excess of historical highs. These two wells are located hydraulically downgradient of the source areas identified on the adjacent residential properties to the north (*Residential Property Investigation – Fall 2011 and Spring 2012*, submitted to VT DEC 7 August 2012). As such, the continued VT GWQS exceedances are attributable to contamination migrating from the residential properties, not from the Energizer property.
- TCE concentrations in groundwater were not detected in either monitoring well sampled in 2016.

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

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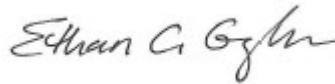
- Continue annual monitoring of ERM-12 and ERM-16, and biennial (every other year) monitoring of ERM-8, ERM-11S, and ERM-13 in September per VTDEC communication.
- Re-evaluate monitoring strategy following the September 2017 monitoring event, which will include sampling of all five current monitoring well locations.

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

Sincerely,



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



Ethan C. Gyles, P.E.
Project Manager

Cc: Mr. Jeffrey Gipson (Energizer)

Attachments:

Table 1	<i>Summary of Groundwater Analytical Results</i>
Figure 1	<i>Site Locus Map</i>
Figure 2	<i>Site Plan</i>
Figure 3	<i>PCE Concentrations in Groundwater Samples</i>
Figure 4	<i>PCE Groundwater Time Series Plots</i>
Appendix A	<i>Groundwater Analytical Results</i>

Tables

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:

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-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	ERM-8 23-Sep-15 Alpha PDB
Volatile Organics (VOCs) (ug/l)											
Tetrachloroethylene	5	1.5	1.5	2.3	2.3	1.5	0.97	0.98	2.0	2.0	1.6
Trichloroethylene	5	< 0.50	< 0.50	< 0.50	< 0.50	0.52	< 0.50	< 0.50	0.87	0.86	0.91
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:

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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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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	ERM-11S 23-Sep-15 Alpha PDB
Volatile Organics (VOCs) (ug/l)							
Tetrachloroethylene	5	92	100	*	80	110	120
Trichloroethylene	5	< 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
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75	*	< 0.75	< 0.75	< 0.75

* No sample taken. No PDB in well.

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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

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

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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 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	70	54
Trichloroethylene	5	6.78	3.5	1.1	< 0.50	< 0.50	< 0.50	5.0	< 1.2	< 1.0	< 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	< 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	< 1.5

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Table 1
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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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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.

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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 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	ERM-12 23-Apr-15 Alpha PDB	ERM-12 23-Sep-15 Alpha PDB	ERM-12 28-Sep-16 Alpha PDB	ERM-12 28-Sep-16 Alpha FD
Volatile Organics (VOCs) (ug/l)												
Tetrachloroethylene	5	63	4.9	93	100	100	100	140	100	72	90	88
Trichloroethylene	5	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 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	< 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	< 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 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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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	ERM-13 23-Sep-15 Alpha PDB
Volatile Organics (VOCs) (ug/l)					
Tetrachloroethylene	5	< 0.50	< 0.50	< 0.50	< 0.50
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

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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

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Table 1
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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 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	6.3	6.2
Trichloroethylene	5	< 0.50	< 0.50	1.6	0.91	2.5	1.1	< 0.50	0.71	0.74	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	< 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	< 0.75

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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-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	ERM-16 23-Apr-15 Alpha PDB	ERM-16 23-Apr-15 Alpha FD	ERM-16 23-Sep-15 Alpha PDB	ERM-16 23-Sep-15 Alpha FD	ERM-16 28-Sep-16 Alpha PDB
Volatile Organics (VOCs) (ug/l)								
Tetrachloroethylene	5	14	13	9.5	9.5	12	11	25
Trichloroethylene	5	< 0.50	0.58	0.68	0.64	< 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
Trans-1,2-Dichloroethene	100	< 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.

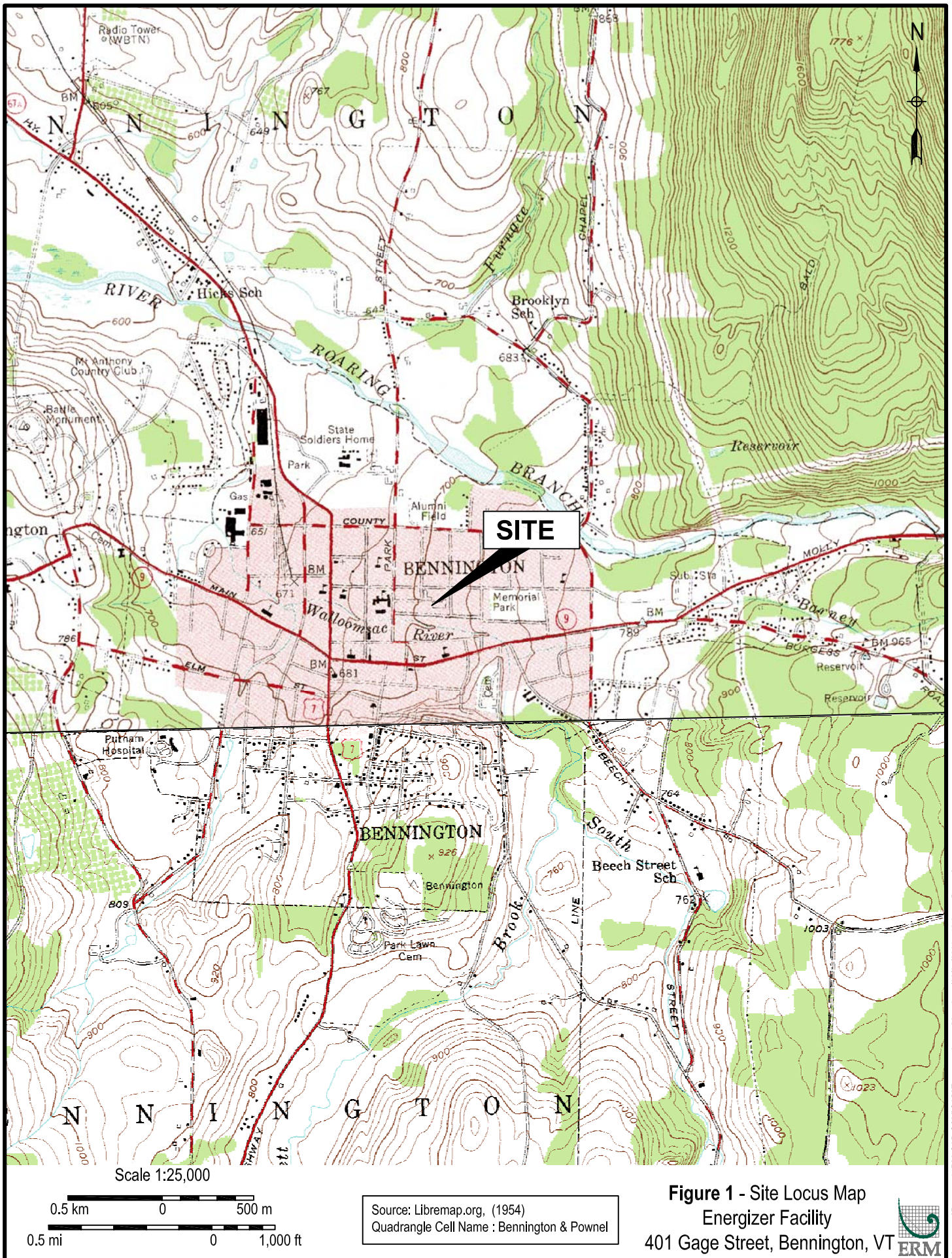
Analyses for VOCs performed by Alpha (EPA Method SW8260) and Stone (EPA Method SW8260B). See Table for distinction.

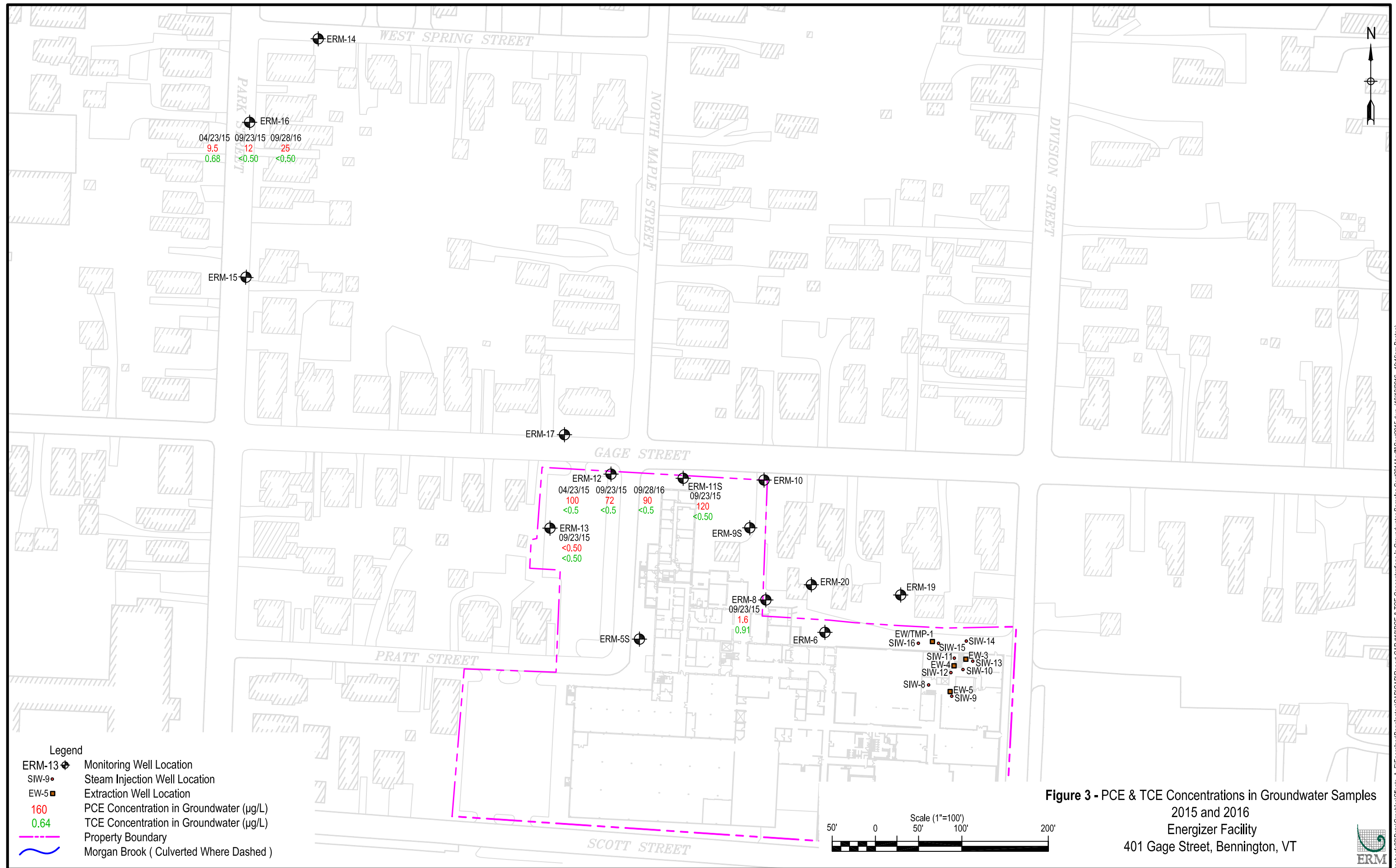
FD = Field Duplicate.

N = Normal Sample.

PDB = Passive Diffusion Bag method of sample collection.

Figures







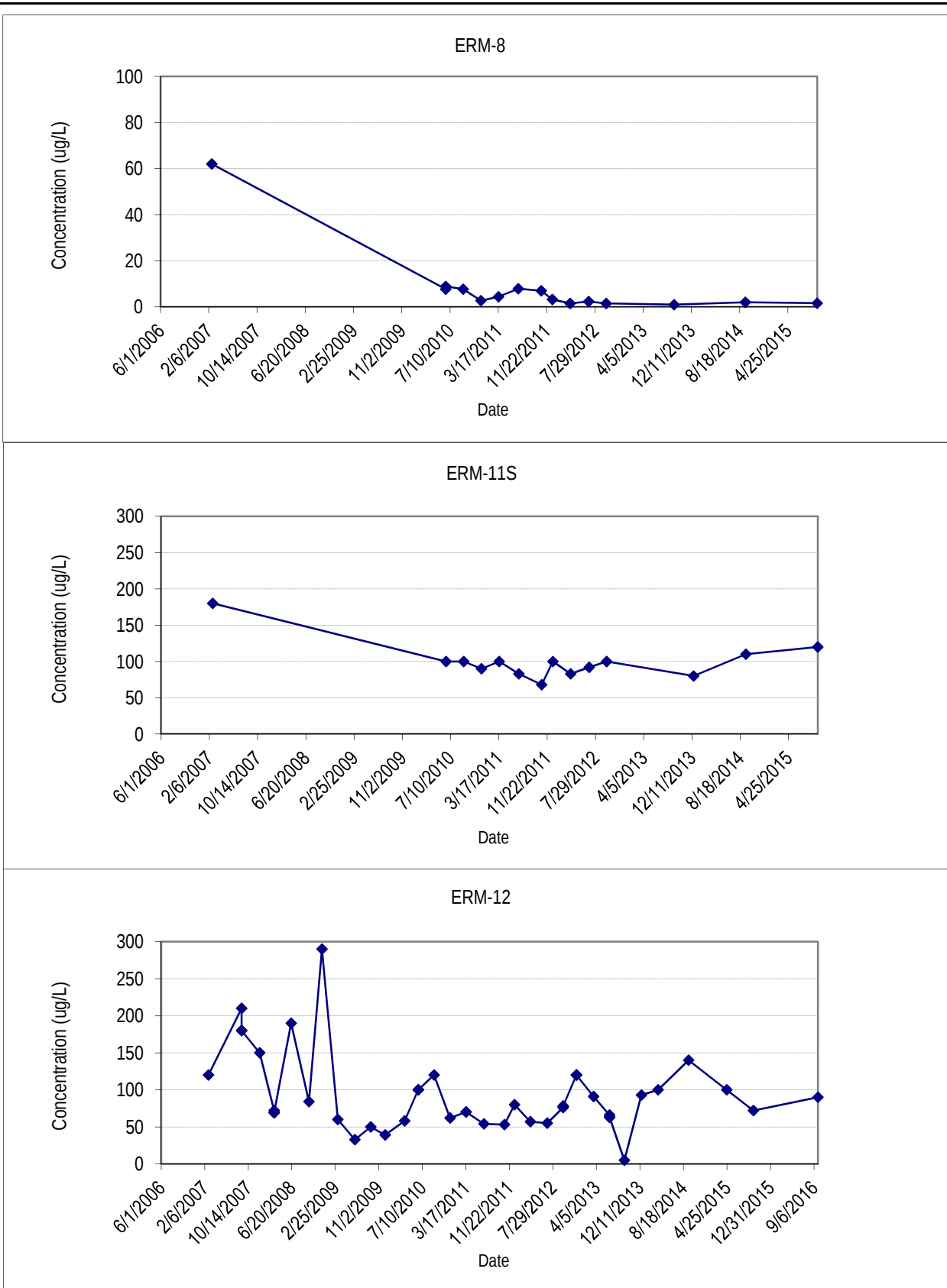


Figure 4 - PCE Groundwater Time Series Plots
Enerzizer Facility
401 Gage St, Bennington, VT



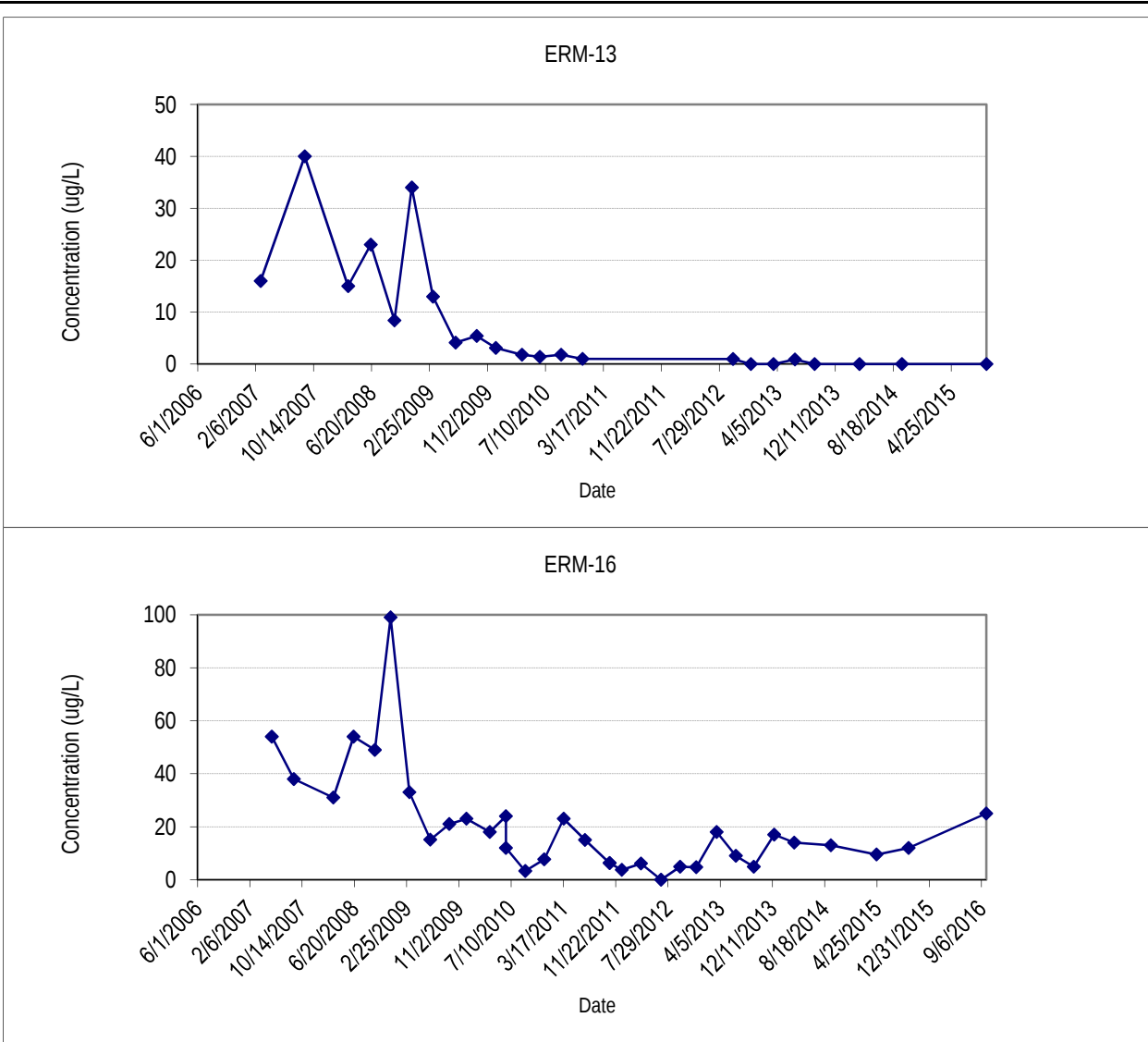


Figure 4 - PCE Groundwater Time Series Plots
Energizer Facility
401 Gage St, Bennington, VT



*Appendix A – Groundwater
Analytical Results*



ANALYTICAL REPORT

Lab Number:	L1630718
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:	10/04/16

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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), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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:** L1630718**Report Date:** 10/04/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1630718-01	ERM-16-20160927-01	WATER	BENNINGTON, VT	09/27/16 10:30	09/28/16
L1630718-02	ERM-12-20160927-01	WATER	BENNINGTON, VT	09/27/16 11:15	09/28/16
L1630718-03	TB-001-20160927-01	WATER	BENNINGTON, VT	09/27/16 12:00	09/28/16
L1630718-04	DUP-001-20160927-01	WATER	BENNINGTON, VT	09/27/16 11:11	09/28/16

Project Name: ENERGIZER
Project Number: 0252540

Lab Number: L1630718
Report Date: 10/04/16

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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.

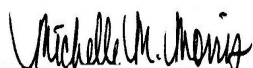
HOLD POLICY

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:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 10/04/16

ORGANICS

VOLATILES

Project Name: ENERGIZER

Lab Number: L1630718

Project Number: 0252540

Report Date: 10/04/16

SAMPLE RESULTS

Lab ID: L1630718-01
 Client ID: ERM-16-20160927-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 10/02/16 16:17
 Analyst: PK

Date Collected: 09/27/16 10:30
 Date Received: 09/28/16
 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	25		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: L1630718

Project Number: 0252540

Report Date: 10/04/16

SAMPLE RESULTS

Lab ID: L1630718-01

Date Collected: 09/27/16 10:30

Client ID: ERM-16-20160927-01

Date Received: 09/28/16

Sample Location: BENNINGTON, VT

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	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	100		70-130

Project Name: ENERGIZER

Lab Number: L1630718

Project Number: 0252540

Report Date: 10/04/16

SAMPLE RESULTS

Lab ID: L1630718-02
 Client ID: ERM-12-20160927-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 10/02/16 16:52
 Analyst: PK

Date Collected: 09/27/16 11:15
 Date Received: 09/28/16
 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	90		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: L1630718

Project Number: 0252540

Report Date: 10/04/16

SAMPLE RESULTS

Lab ID: L1630718-02

Date Collected: 09/27/16 11:15

Client ID: ERM-12-20160927-01

Date Received: 09/28/16

Sample Location: BENNINGTON, VT

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	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	98		70-130

Project Name: ENERGIZER

Lab Number: L1630718

Project Number: 0252540

Report Date: 10/04/16

SAMPLE RESULTS

Lab ID: L1630718-03
 Client ID: TB-001-20160927-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 10/02/16 17:26
 Analyst: PK

Date Collected: 09/27/16 12:00
 Date Received: 09/28/16
 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: L1630718

Project Number: 0252540

Report Date: 10/04/16

SAMPLE RESULTS

Lab ID: L1630718-03

Date Collected: 09/27/16 12:00

Client ID: TB-001-20160927-01

Date Received: 09/28/16

Sample Location: BENNINGTON, VT

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	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	99		70-130

Project Name: ENERGIZER

Lab Number: L1630718

Project Number: 0252540

Report Date: 10/04/16

SAMPLE RESULTS

Lab ID: L1630718-04
 Client ID: DUP-001-20160927-01
 Sample Location: BENNINGTON, VT
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 10/02/16 18:01
 Analyst: PK

Date Collected: 09/27/16 11:11
 Date Received: 09/28/16
 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	88		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: L1630718

Project Number: 0252540

Report Date: 10/04/16

SAMPLE RESULTS

Lab ID: L1630718-04

Date Collected: 09/27/16 11:11

Client ID: DUP-001-20160927-01

Date Received: 09/28/16

Sample Location: BENNINGTON, VT

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	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	99		70-130

Project Name: ENERGIZER

Lab Number: L1630718

Project Number: 0252540

Report Date: 10/04/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/02/16 12:50
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG938083-5					
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	--
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	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
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	--
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	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dichlorodifluoromethane	ND		ug/l	5.0	--

Project Name: ENERGIZER

Lab Number: L1630718

Project Number: 0252540

Report Date: 10/04/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/02/16 12:50
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG938083-5					
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	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1630718

Report Date: 10/04/16

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: WG938083-3 WG938083-4								
Methylene chloride	96		94		70-130	2		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	120		120		63-132	0		20
1,2-Dichloropropane	100		98		70-130	2		20
Dibromochloromethane	87		84		63-130	4		20
1,1,2-Trichloroethane	96		90		70-130	6		20
2-Chloroethylvinyl ether	85		80		70-130	6		20
Tetrachloroethene	100		98		70-130	2		20
Chlorobenzene	100		97		75-130	3		25
Trichlorofluoromethane	100		93		62-150	7		20
1,2-Dichloroethane	100		99		70-130	1		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	89		85		70-130	5		20
cis-1,3-Dichloropropene	110		100		70-130	10		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	84		81		54-136	4		20
1,1,2,2-Tetrachloroethane	95		92		67-130	3		20
Benzene	110		100		70-130	10		25
Toluene	100		100		70-130	0		25

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1630718

Report Date: 10/04/16

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: WG938083-3 WG938083-4								
Ethylbenzene	100		100		70-130	0		20
Chloromethane	76		72		64-130	5		20
Bromomethane	100		100		39-139	0		20
Vinyl chloride	100		100		55-140	0		20
Chloroethane	99		95		55-138	4		20
1,1-Dichloroethene	95		91		61-145	4		25
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		25
1,2-Dichlorobenzene	93		90		70-130	3		20
1,3-Dichlorobenzene	100		97		70-130	3		20
1,4-Dichlorobenzene	97		94		70-130	3		20
Methyl tert butyl ether	100		92		63-130	8		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		98		70-130	2		20
Dibromomethane	100		99		70-130	1		20
1,4-Dichlorobutane	100		100		70-130	0		20
Iodomethane	95		96		70-130	1		20
1,2,3-Trichloropropane	98		92		64-130	6		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	84		79		36-147	6		20

Lab Control Sample Analysis Batch Quality Control

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1630718

Report Date: 10/04/16

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: WG938083-3 WG938083-4								
Acetone	66		62		58-148	6		20
Carbon disulfide	86		81		51-130	6		20
2-Butanone	82		77		63-138	6		20
Vinyl acetate	93		90		70-130	3		20
4-Methyl-2-pentanone	78		72		59-130	8		20
2-Hexanone	72		69		57-130	4		20
Ethyl methacrylate	81		79		70-130	3		20
Acrolein	80		71		70-130	12		20
Acrylonitrile	88		80		70-130	10		20
Bromochloromethane	100		100		70-130	0		20
Tetrahydrofuran	75		72		58-130	4		20
2,2-Dichloropropane	130		120		63-133	8		20
1,2-Dibromoethane	97		91		70-130	6		20
1,3-Dichloropropane	96		92		70-130	4		20
1,1,1,2-Tetrachloroethane	100		98		64-130	2		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	99		96		53-136	3		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	100		110		70-130	10		20
p-Chlorotoluene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1630718

Report Date: 10/04/16

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: WG938083-3 WG938083-4								
1,2-Dibromo-3-chloropropane	74		69		41-144	7		20
Hexachlorobutadiene	80		75		63-130	6		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	63	Q	62	Q	70-130	2		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	51	Q	50	Q	70-130	2		20
1,2,4-Trichlorobenzene	66	Q	63	Q	70-130	5		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,3,5-Trichlorobenzene	81		78		70-130	4		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
trans-1,4-Dichloro-2-butene	93		88		70-130	6		20
Halothane	100		99		70-130	1		20
Ethyl ether	93		91		59-134	2		20
Methyl Acetate	91		84		70-130	8		20
Ethyl Acetate	90		83		70-130	8		20
Isopropyl Ether	100		98		70-130	2		20
Cyclohexane	100		99		70-130	1		20
tert-Butyl Alcohol	90		80		70-130	12		20
Ethyl-Tert-Butyl-Ether	100		100		70-130	0		20
Tertiary-Amyl Methyl Ether	97		93		66-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1630718

Report Date: 10/04/16

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: WG938083-3 WG938083-4								
1,4-Dioxane	80		70		56-162	13		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		96		70-130	4		20
Methyl cyclohexane	100		98		70-130	2		20
1,4-Diethylbenzene	100		98		70-130	2		20
4-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	93		90		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		101		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	112		113		70-130
Dibromofluoromethane	101		101		70-130

Project Name: ENERGIZER

Project Number: 0252540

Lab Number: L1630718

Report Date: 10/04/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1630718-01A	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-01B	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-01C	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-02A	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-02B	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-02C	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-03A	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-03B	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-03C	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-04A	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-04B	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)
L1630718-04C	Vial HCl preserved	A	N/A	6.0	Y	Absent	8260-CHLR(14)

*Values in parentheses indicate holding time in days

Project Name: ENERGIZER**Lab Number:** L1630718**Project Number:** 0252540**Report Date:** 10/04/16

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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

Report Format: Data Usability Report



Project Name: ENERGIZER**Lab Number:** L1630718**Project Number:** 0252540**Report Date:** 10/04/16**Data Qualifiers**

- 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.
 - 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:** L1630718**Project Number:** 0252540**Report Date:** 10/04/16

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

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: **EPA 3050B**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

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; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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:10041619:23

Date Rec'd in Lab: 09/28/16

ALPHA Job #: L1630718

Client Information

Client: ERM

Address: 15 PARK ROW WEST
PROVIDENCE RI

Phone: 401-415-9600

Fax:

Email: ETHAN.BYLES@ERM.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: ENERGIZER

Project Location: BENNINGTON, VT

Project #: 0252540

Project Manager: ETHAN BYLES

ALPHA Quote #:

Turn-Around Time

☒ Standard

☐ RUSH (only confirmed if pre-approved!)

Date Due:

Time:

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

ANALYSIS
8260-8021C

SAMPLE HANDLING

Filtration

☐ Done

☐ Not needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
30718-01	ERM-16 -20160927-01	9/27/16	10:30	GW	SML
02	ERM-12 -20160927-01	9/27/16	11:15	GW	SML
03	TB-001-20160927-01	9/27/16	12:00	GW	SML
04	DUP-001-20160927-01	9/27/16	11:11	GW	SML

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.