

Long Term Monitoring Plan

Energizer, 401 Gage Street, Bennington,
Vermont

PREPARED FOR



Energizer Holdings, Inc.

DATE

11 December 2025

REFERENCE

0746811



SIGNATURE PAGE

Long Term Monitoring Plan

Energizer, 401 Gage Street, Bennington, Vermont
0746811



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PROJECT NO: 0746811 DATE: 11 December 2025

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1. INTRODUCTION

Environmental Resources Management, Inc. (ERM) has prepared this Long-Term Monitoring Plan (LTMP) on behalf of Energizer Holdings, Inc. (Energizer) for the Site located at 401 Gage Street in Bennington, Vermont. A draft LTMP was previously developed and submitted as an appendix to the 2025 Supplemental Corrective Action Plan (CAP) for Groundwater, dated July 16, 2025, and approved by VTDEC on August 28, 2025. This LTMP supports the transition of the Site to long-term monitoring.

2. BACKGROUND

The Site is located on the south side of Gage Street, northeast of downtown Bennington in Bennington County, Vermont. The Walloomsac River is located to the south. The general location of the Site Property and the surrounding area are depicted on **Figure 1**.

The Site property comprises five land parcels (four tax ID parcels), which total approximately 9.29 acres, developed with six buildings which include Plant 1, Plant 2, a Boiler House, Tank Farm Enclosure, an unnamed storage building, and a wooden storage shed. The land parcels are divided into several lots, which are shown on the Site map provided as **Figure 2**. The two main facility buildings are Plant 1 and Plant 2. Plant 1 is located immediately south of Gage Street and ceased manufacturing operations in January 2021. Plant 2 is located further south on Scott Street and was vacated in 2016.

2.1 SITE INVESTIGATION AND REMEDIATION/MITIGATION ACTIVITIES

Site investigation and remediation activities occurred at the Site between 2006 and 2021. As described in the 2021 Supplemental Site Investigation Report and the 2025 Supplemental CAP for Groundwater, a record of the associated investigation and remediation activities completed to date can be found in documents filed with VTDEC, including but not limited to:

- Initial Shallow Groundwater Investigation Report (ERM 2006a);
- Dynamic Work Plan for Site Investigation (ERM 2006b);
- Work Plan for Off-Site Investigation Activities (ERM 2007a);
- Summary of Air Sparge/Soil Vapor Extraction (AS/SVE) (ERM 2007b);
- Site Investigation Report/Corrective Action Feasibility Investigation (ERM 2007c);
- Corrective Action Plan (CAP; ERM 2007d);
- Vapor Intrusion Investigation Report – Addendum to Site Investigation Report (ERM 2008a);
- Interim Remedial Measure and CAP Final Construction Report (ERM 2008b);
- Residential Property Investigation Work Plans and Site Investigation Addendum Report (ERM 2011, 2012a, 2012b);
- CAP Addendum (ERM 2013);

- PFAS Investigation Work Plan and Results (ERM 2017, ERM 2018);
- Historical Use PFAS Report (Energizer 2018);
- Supplemental Site Investigation Report (ERM 2021a);
- Supplemental Corrective Action Plan (ERM 2025a);
- ERM remediation and post-remediation Operation, Maintenance, and Monitoring Reports from 2008 through present day.

Investigation, remediation and mitigation activities were conducted in coordination with relevant VTDEC regulations and guidance. The primary groundwater contaminants of concern (COC) at this Site are chlorinated volatile organic compounds (CVOCs), primarily tetrachloroethene (PCE), and per- and polyfluoroalkyl substances (PFAS). This LTMP will focus on the monitoring of these compounds over time.

3. LONG TERM GROUNDWATER MONITORING PLAN, MONITORING AND REPORTING ACTIVITIES

Upon VTDEC approval of the LTMP, groundwater monitoring and reporting activities will be conducted and continue until COC concentrations are below regulatory thresholds. Any change to the LTMP shall be approved by the Vermont Agency of Natural Resources Secretary (Secretary) in writing. The Secretary will be notified immediately if a change in Site conditions affect the performance of the approved Plan. The Secretary may require revisions to the LTMP based on Site condition changes.

The monitoring data will be reviewed annually, and the overall program will be reviewed every five years to determine if modifications need to be made. The activities include:

- Groundwater gauging
- Groundwater sampling
- Reporting

Additional details about the scope, schedule, and reporting of each activity is described below.

3.1 PURPOSE AND SCOPE

Long term monitoring consists of collecting samples from on- and off-Site monitoring wells to monitor concentrations of CVOCs (in particular PCE) and PFAS. Although this does not reduce contaminant mass and concentrations, routine monitoring will allow assessment of COC concentrations to determine if they are increasing, identify potential exposures that have not been controlled, and will monitor natural attenuation over time. Eight (8) existing monitoring wells will be used in the long-term monitoring program (**Figure 2**). Each of the eight wells are screened at the target depth which is the shallow aquifer above the silt aquitard. Boring logs for these eight wells are included in **Appendix A**.

The current scope includes the following annual monitoring activities:

- Measure groundwater elevations and total depths in eight groundwater monitoring wells (**Table 1**).
- Low-flow groundwater sample the eight groundwater monitoring wells in **Table 1** according to United States Environmental Protection Agency (USEPA) guidance for low flow sampling (USEPA 2017) and VTDEC guidance for PFAS sample collection (VTDEC 2020).
- Ship the samples to a qualified environmental laboratory for CVOC and PFAS analyses.
- Submit report of findings to VTDEC after each sampling event.

This current scope may be updated as appropriate with VTDEC approval.

3.2 METHODOLOGY

The groundwater monitoring wells included in the long term monitoring will be sampled in accordance with USEPA and VTDEC guidance for sampling monitoring wells for CVOCs and PFAS (USEPA 2017; VTDEC 2020).

Prior to initiating monitoring well sampling, depths to water and total well depths will be collected from the monitoring wells using an electronic water level indicator. Both measurements will be recorded to the nearest hundredth of a foot from a reference point at each monitoring well and recorded on a field gauging form. An example field gauging form is included in **Appendix B**. The water level indicator will be decontaminated between each gauging location using an Alconox® and PFAS-free potable water solution followed by a PFAS-free distilled water rinse between uses.

Groundwater samples will be collected from the approximate middle of the screened interval using low-flow purging techniques as outlined in the United States Environmental Protection Agency (USEPA) Region I procedure (USEPA, 2017). Low-flow monitoring well purging will be conducted using peristaltic pumps and polypropylene tubing. Select in-situ geochemical parameters will be monitored in the field using a calibrated YSI ProQuatro meter (or equivalent) with a flow-through cell. These parameters will be recorded every 5 minutes during purging to provide geochemical data and evaluate groundwater stabilization prior to sample collection. An example groundwater sampling form is included in **Appendix C**. The following parameters and stabilization will be considered to be achieved when three (3) consecutive readings are within the following limits:

- Dissolved Oxygen $\leq 10\%$
- Turbidity < 50 Nephelometric Turbidity Units
- Specific Conductance $\leq 3\%$
- Temperature $\leq 3\%$ (C°)
- pH ± 0.1 unit
- Oxygen Reduction Potential ± 10 millivolts.

Samples will be collected directly into laboratory-supplied sampling containers, which will be pre-labeled and stored in a clean, pre-chilled cooler. Samples will be transported under chain-of-custody to the laboratory.

Groundwater samples will be analyzed by a VTDEC-certified laboratory for PFAS by USEPA Method 1633 and for VOCs by USEPA Method 8260C. The full list of PFAS will be analyzed and reported. The reported VOC list will be PCE, trichloroethene, *cis*-1,2-dichloroethene, *trans*-1,2-dichloroethene, and vinyl chloride. Laboratory results will be tabulated and shared with the VTDEC via email, similar to the previous post-remediation monitoring conducted at this Site.

3.2.1 QUALITY ASSURANCE AND QUALITY CONTROL PLAN

Long term monitoring will be performed in accordance with the following guidance:

- VTDEC IRule, dated 23 February 2024;
- United States Environmental Protection Agency (USEPA) Region I Low-Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells; and
- VTDEC PFAS Sample Collection Information (VTDEC 2020).

If the guidance documents listed above are updated, the latest versions will be followed to the extent practicable.

Quality Assurance/Quality Control (QA/QC) samples will be collected to confirm the usability of field analytical results generated are consistent with Precision, Accuracy, Representativeness, Completeness, Comparability and Sensitivity parameters. The following QA/QC samples will be collected:

Field Duplicate Samples: Field duplicate samples will be collected to determine analytical and sampling precision. One field duplicate sample will be collected for every 10 groundwater samples. Parent samples of duplicates will be recorded both on field forms and in the field book. Field blanks will be analyzed for identical parameters as the corresponding media samples.

- Trip Blanks: Trip blanks will be prepared by the laboratory in advance and follow the sample bottles and same shipping containers before returning to the laboratory for analysis with the other samples. Trip blanks will not be opened. One trip blank sample will be prepared and analyzed for VOCs in groundwater during each sampling event.
- Field Rinseate Blanks (FRBs)/Trip Blanks: FRBs will also double as the PFAS trip blank. The FRB will be prepared by pouring laboratory-provided, ultra-pure, PFAS-free deionized water into lab-provided sample containers. One FRB will be collected for groundwater per field event. The FRB will be analyzed for identical parameters as the associated samples.

3.3 SAMPLING SCHEDULE

Monitoring will be completed on an annual basis for the first five years. After five years the frequency of monitoring will be assessed and modifications will be proposed to the VTDEC as appropriate. Laboratory analytical data is expected to be received two weeks (14 days) after receipt of samples by the analytical laboratory.

3.4 REPORTING AND NOTIFICATION

A long-term monitoring report shall be submitted on an annual basis, or on a schedule approved by the Secretary. The long-term monitoring report, including analytical results, shall be submitted

to the Secretary no later than 45 days from the receipt of analytical results from the laboratory or within an alternate schedule approved by the Secretary.

The long-term monitoring reports will include the following:

- 1) Updated executive summary. Brief summary of findings, conclusions, and recommendations based upon the data collected during the monitoring event.
- 2) An updated CSM.
- 3) Analytical results from the Site Investigation and applicable prior investigations will be tabulated and compared to the applicable environmental media standards unless a site-specific risk assessment was conducted.
- 4) Updated site maps.
- 5) Documentation of the sample location and method in accordance with ERM's SOPs.
- 6) A discussion of first-time detections of contaminant concentrations and a discussion of significant changes in concentrations in any monitoring point if applicable.
- 7) Any deviations from the approved work plan will be identified and justified.
- 8) Discussion. A descriptive analysis of how the data gathered supports the CSM, and whether the corrective action or site investigation objectives continue to be achieved. The discussion must also establish that the data collected are suitable to determine the risk posed by the hazardous materials, the need for further characterization, and the potential remedial actions. Only data that passes Quality Assurance/Quality Control criteria will be acceptable.
- 9) Data presentation. All collected data will be organized in narrative, tabular, and graphical form, and shall include all historical site data, unless deemed unnecessary by the Secretary. Graphs of hazardous material concentration versus time; including results from discontinued monitoring locations if necessary to support the conclusions in the report. All detected hazardous material concentrations shall be reported. Hazardous materials that are not detected shall be reported as less than the numerical detection limit. Detection limits shall be below the environmental media standards and shall be provided in tabular format with the analytical results. All laboratory data qualifications must be included in tabulated data presentations.
- 10) Data used in spreadsheets or models will be submitted if requested by the Secretary.
- 11) NAPL recovery results, when applicable.

- 12) A description of the current site conditions, condition of the monitoring network since the last monitoring event, and any required maintenance that must be completed with a schedule to complete the work.
- 13) Observable changes in site and neighboring property conditions which may affect site management. These changes may include change in property use, change in property occupancy, water supply changes, and construction.
- 14) Compliance with any institutional controls developed as part of the response to contamination.
- 15) Documentation of the handling of any investigation-derived waste.
- 16) Conclusions and Recommendations. A discussion of the findings of the investigation that substantiate the revised CSM, and, specifically, the risk hazardous materials pose to identified receptors, completed exposure pathways, the identification of data gaps, potentially appropriate corrective actions, proposed monitoring frequency, and need for further investigation, additional corrective action, or site closure.
- 17) The report will be signed and certified by an environmental professional.

4. REFERENCES

- Energizer. 2018. *Bennington Historical Use PFAS Report*. Energizer Holdings, Inc. 2 March 2018.
- ERM 2006a. *Initial Shallow Groundwater Investigation Report*. Environmental Resources Management. 13 March 2006.
- ERM. 2006b. *Dynamic Work Plan for Site Investigation*. Environmental Resources Management. 5 April 2006.
- ERM. 2007a. *Work Plan for Off-Site Investigation Activities*. Environmental Resources Management. 31 January 2007.
- ERM. 2007b. *Summary of Air Sparge/Soil Vapor Extraction (AS/SVE)*. Environmental Resources Management. 1 May 2007.
- ERM. 2007c. *Site Investigation Report/Corrective Action Feasibility Investigation*. Environmental Resources Management. 14 June 2007. Revised 27 August 2007.
- ERM. 2007d. *Corrective Action Plan (CAP)*. Environmental Resources Management. 30 July 2007.
- ERM. 2008a. *Vapor Intrusion Investigation Report – Addendum to Site Investigation Report*. 30 April 2008.
- ERM. 2008b. *Interim Remedial Measure and Corrective Action Plan Final Construction Report*. Environmental Resources Management. 20 June 2008.
- ERM. 2011. *Residential Property Investigation Work Plan – Updated Passive Soil Gas Sampling and Waterloo APS Investigation*. Environmental Resources Management. 21 September 2011.
- ERM. 2012a. *Residential Property Investigation Work Plan – Expanded Passive Soil Gas Survey and Soil Sampling*. Environmental Resources Management. 5 April 2012.
- ERM. 2012b. *Residential Property Investigation – Fall 2011 and Spring 2012*. Environmental Resources Management. 7 August 2012.
- ERM. 2013. *CAP Addendum*. Environmental Resources Management. 21 May 2013.
- ERM. 2017. *Work Plan to Investigation Per- and Polyfluoroalkyl Substances (PFAS)*. Environmental Resources Management. 17 November 2007.
- ERM. 2018. *PFAS Groundwater Sampling Results*. Environmental Resources Management. 31 January 2018.
- ERM. 2021a. *Supplemental Site Investigation Report*. Environmental Resources Management. 16 June 2021.
- ERM. 2023. *Supplemental Corrective Action Plan*. Environmental Resources Management. Drafted 2 December 2021, finalized 19 May 2023.
- ERM. 2025a. *Supplemental Corrective Action Plan*. Environmental Resources Management. 25 February 2025.

- USEPA (United States Environmental Protection Agency) Region I. 2017. *Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells*. USEPA Region I. 19 September 2017.
- VTDEC. 2020. *Updated PFAS Sample Collection Information*. Vermont Department of Environmental Conservation. 29 July 2020.
- VTDEC. 2024. *Investigation and Remediation of Contaminated Properties Rule*. Vermont Department of Environmental Conservation. 23 February 2024.



TABLES

Table 1
Monitoring Well Location and Construction Summary
Energizer Facility
401 Gage Street, Bennington, Vermont

Well Designation	Date Installed	Ground Surface Elevation (feet ASL)	Top of PVC Elevation (feet ASL)	Well Diameter (inches)	Screen Length (feet)	Total Well Depth (feet)	Screen Interval Elevation (feet ASL)	
							Bottom	Top
ERM-8	2/20/2007	705.42	705.17	2	5	18.5	686.92	691.92
ERM-11S	2/22/2007	703.35	702.94	1	5	21.0	682.35	687.4
ERM-12	2/26/2007	701.74	701.48	2	5	20.0	681.74	686.74
ERM-13	2/26/2007	701.46	701.28	2	9	22.0	679.46	688.46
ERM-16	5/9/2007	689.48	-	2	5	20.0	-	-
MW-102	7/7/2020	700.90	700.31	2	10	15.0	685.90	695.9
MW-103	7/7/2020	701.05	700.47	2	10	18.0	683.05	693.1
MW-104	7/8/2020	705.82	705.34	2	10	15.0	690.82	700.8

Notes:

All elevations are relative to mean sea level (ASL=above sea level)

Site surveys for wells ERM-8, ERM-11S, ERM-12, ERM-13, ERM-16, MW-102, MW-103, MW-104 were completed by CHAS. H. SELLS, INC. on 08/01/2006 and 03/08/2007

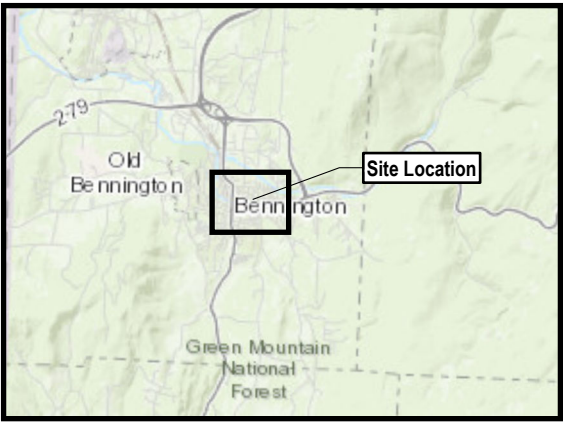
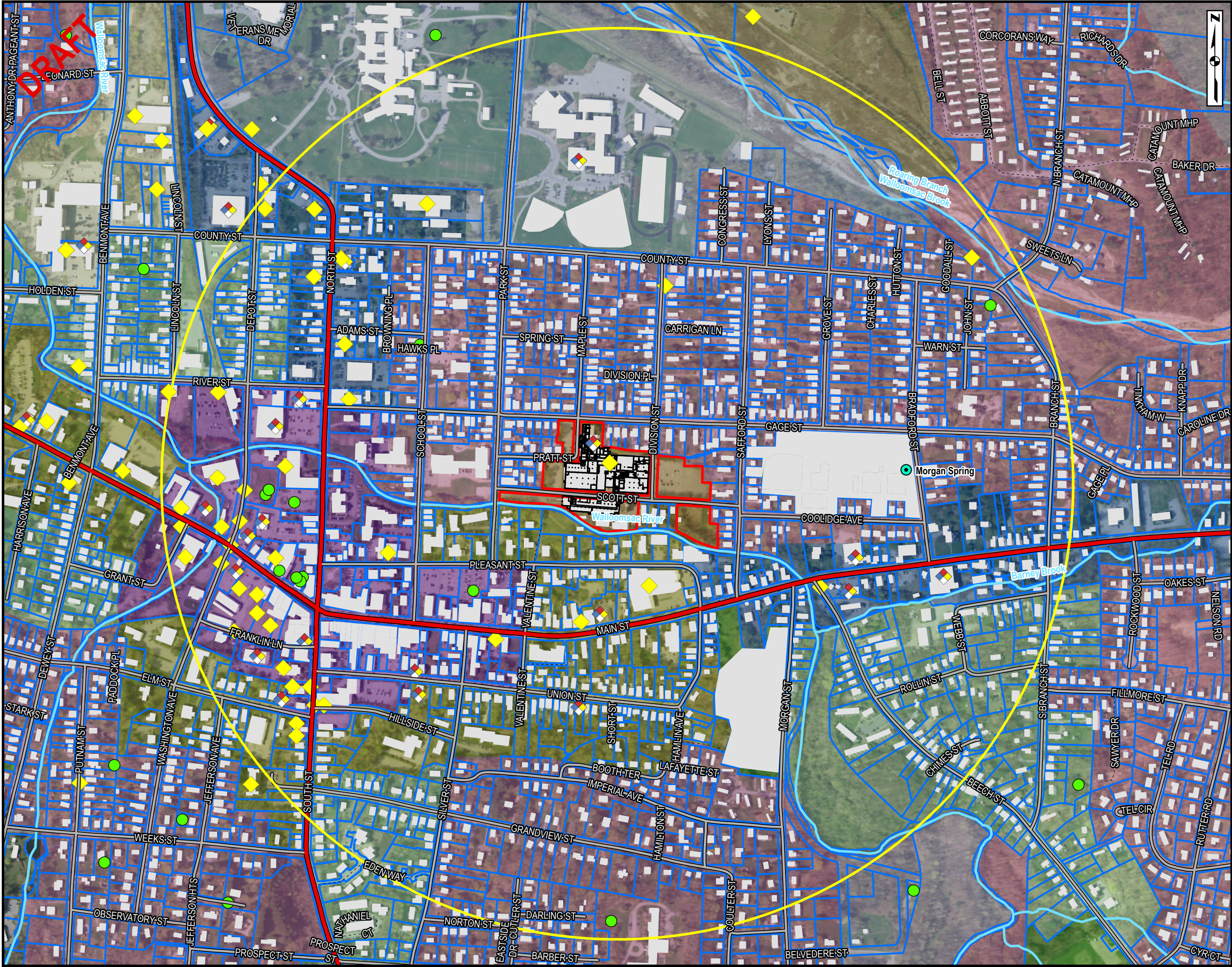
Site surveys for wells MW-102, MW-103, and MW-104 were completed by WSP on 7/15/2020.

Ground surface elevation for ERM-16 is based on surveyed elevation of associated Modified Waterloo Profiler boring locations.

- = Data not available



FIGURES



Legend

— Site Building Outline	Office and Apartment
— Site Property Boundaries	Public Open Space
— Property Boundary Lines	Village Commercial
— 2,000 Foot Buffer	Village Industrial
— Surface Water - Rivers/Streams	Village Residential
Public Water Sources	Industrial and Profession
● Active	Mixed Residential
● Proposed	Rural Residential
● Inactive	Urban Mixed Use
● Private Wells	Industrial
— VT E911 Building Footprints	● Hazardous Waste Site
— Zoning	● Hazardous Waste Generators
— Central Business	

NOTES:

1. Aerial Imagery: ESRI World Imagery
Reproduced under license in ArcGIS 10.7
2. Data collected from Vermont Agency of Natural Resources in 2021

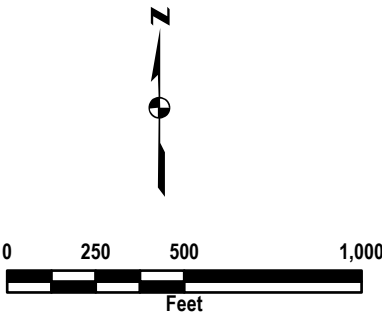


Figure 1: Vicinity Map
Energizer Holdings, Inc.
Bennington, Vermont





Legend

- Monitoring Well
- Elevation Contours
- Site Property Boundaries
- Tax Parcels
- 50536100 Tax Parcel ID

NOTES:

- Aerial Imagery: ESRI World Imagery
Reproduced under license in ArcGIS 10.7
- Data collected from Vermont Agency of Natural Resources and USGS

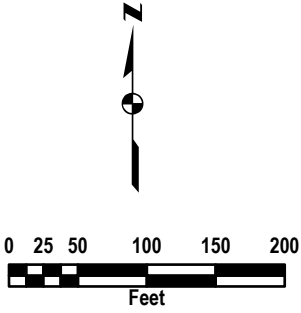


Figure 2: Site Layout Map
Energizer Holding, Inc.
Bennington, Vermont





APPENDIX A BORING LOGS FOR ACTIVE MONITORING WELLS

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WELL NUMBER ERM-8

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CLIENT <u>Energizer</u>	PROJECT NAME <u>Energizer-Bennington</u>
PROJECT NUMBER <u>0044701</u>	PROJECT LOCATION <u>Bennington, VT</u>
DATE STARTED <u>2/20/2007</u> COMPLETED <u>2/20/2007</u>	GROUND ELEVATION <u>705.42 ft</u> WELL/BORING DIAMETER <u>2"</u>
DRILLING CONTRACTOR <u>Boart Longyear</u>	MEASURING POINT ELEVATION (ft) <u>705.17</u>
DRILLING METHOD <u>Roto Sonic</u>	GROUNDWATER ELEVATION (ft) <u>697.66</u>
LOGGED BY <u>Moore</u> CHECKED BY <u>Ravella</u>	GROUNDWATER ELEVATION DATE <u>2/28/07</u>
NOTES	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID screen (ppm)	WELL DIAGRAM
0							
	SC	92	SW		Asphalt.	18.2	
	SC		SW		SILTY SAND AND GRAVEL poorly sorted (well graded), loose, dry, light tan.	0.5	
	SC				SILTY SAND AND GRAVEL poorly sorted (well graded), loose, dry to moist, dark brown to tan.	1.6	
	SC		SW		COARSE TO MEDIUM SAND AND GRAVEL with sub-angular cobbles and trace silt, poorly sorted (well graded), loose, moist, dark brown.	3.0	
	SC					1.6	
5	SC	32	SW		COARSE TO MEDIUM SAND AND GRAVEL with sub-angular cobbles, poorly sorted (well graded), loose, moist, brown.	28.2	
	SC		GW		COBBLES/ GRAVEL with coarse to medium sand and silt, poorly sorted (well graded), loose, wet, tan/ orange brown.	31.0	
	SC					16.0	
	SC					9.5	
	SC					4.0	
10	SC	37	GW		COARSE SAND AND GRAVEL WITH SUB-ANGULAR CLASTS with medium sand and silt, poorly sorted (well graded), loose, wet, brown.	4.5	
	SC		GW		COARSE SAND AND GRAVEL WITH SUB-ANGULAR CLASTS with medium sand and silt, poorly sorted (well graded), loose, wet, orange brown.	3.7	
	SC					5.7	
	SC					0.7	
	SC					0.0	
15	SC	73	SW		COARSE SAND AND GRAVEL with cobbles and silt, poorly sorted (well graded), loose, orange brown.	2.7	
	SC				SILT with horizontal clay layers, fine sand layers, and dropstones, stiff, very moist, gray.	3.6	
	SC		ML			2.8	
	SC					3.3	
	SC					2.9	
					Bottom of hole at 18.5 feet.		

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WELL NUMBER ERM-11 S/D

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CLIENT <u>Energizer</u>	PROJECT NAME <u>Energizer-Bennington</u>
PROJECT NUMBER <u>0044701</u>	PROJECT LOCATION <u>Bennington, VT</u>
DATE STARTED <u>2/22/2007</u> COMPLETED <u>2/22/2007</u>	GROUND ELEVATION <u>703.35 ft</u> WELL/BORING DIAMETER <u>1.25"</u>
DRILLING CONTRACTOR <u>Boart Longyear</u>	MEASURING POINT ELEVATION (ft) <u>702.94/ 702.81</u>
DRILLING METHOD <u>Roto Sonic</u>	GROUNDWATER ELEVATION (ft) <u>692.40/ 686.71</u>
LOGGED BY <u>Moore</u> CHECKED BY <u>Ravella</u>	GROUNDWATER ELEVATION DATE <u>2/28/07</u>
NOTES _____	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID screen (ppm)	WELL DIAGRAM
0							
	SC	33	SW		SILTY SAND AND GRAVEL with some cobbles, poorly sorted (well graded), dark brown. MEDIUM TO COARSE SAND, SILT AND GRAVEL with some clasts, poorly sorted (well graded), stiff, moist, dark brown/orange brown.	0.0	
	SC		SW			3.1	
	SC					1.2	
	SC					0.2	
5	SC					0.0	
	SC	88	SW		MEDIUM TO COARSE SAND, SILT AND GRAVEL poorly sorted (well graded), slightly moist, dark brown. GRAVEL, BOULDERS, AND MEDIUM TO COARSE SAND with trace fine sandy silt, poorly sorted (well graded), loose, dry, orange brown.	2.4	
	SC					0.1	
	SC		GW			0.0	
	SC					18.2	
10	SC					43.3	
	SC	40	GW		SAND AND GRAVEL Shattered boulder, gray/white. VERY COARSE SAND AND GRAVEL with cobbles, sand and trace silt, very poorly sorted (well graded), very loose, wet, orange brown.	12.4	
	SC					7.1	
	SC					0.0	
	SC					0.0	
15	SC					0.0	
	SC	38	GW		COARSE TO MEDIUM SAND AND GRAVEL with trace silt, poorly sorted (well graded), very loose, wet. COARSE TO MEDIUM SAND AND GRAVEL with some cobbles and silt, poorly sorted (well graded), loose, wet. SILT with horizontal clay layer, stiff, wet, orange brown.	0.0	
	SC		GW			0.0	
	SC		ML			0.2	
	SC					0.0	
20	SC					0.0	
	SC	10	ML		SILT with some small clay layers, stiff, wet, olive gray.	0.0	
	SC					0.0	
	SC					0.0	
	SC					0.0	
25	SC					0.0	

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(Continued Next Page)

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WELL NUMBER ERM-11 S/D

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CLIENT Energizer

PROJECT NAME Energizer-Bennington

PROJECT NUMBER 0044701

PROJECT LOCATION Bennington, VT

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID screen (ppm)	WELL DIAGRAM
25							
	SC					0.0	
	SC					0.0	
	SC	100	ML			0.0	
	SC					0.0	
30	SC					0.0	
	SC					0.0	
	SC		ML		SILT with some fine sand, Many sand and clay layers, stiff, plastic, wet, olive gray.	0.0	
	SC	67				0.0	
	SC					0.0	
	SC					0.0	
35	SC		ML			0.0	
	SC					0.0	
	SC		ML		SILT with some fine sand and clay, stiff, plastic, wet, olive gray.	0.0	
	SC	60			FINE SAND orange brown.	0.0	
	SC				SILT with some fine sand and clay, stiff, plastic, wet, olive gray.	0.0	
	SC					0.0	
40	SC					0.0	
	SC		ML		SILT with some fine sand layers, well sorted (poorly graded), medium stiff, wet, olive gray.	0.0	
	SC					0.0	
	SC	70	SM		FINE SANDY SILT with some silt and clay bands, well sorted (poorly graded), stiff, very moist to wet, olive gray.	0.0	
	SC					0.0	
45	SC					0.0	
					Bottom of hole at 45.0 feet.		

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WELL NUMBER ERM-12

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CLIENT	Energizer	PROJECT NAME	Energizer-Bennington
PROJECT NUMBER	0044701	PROJECT LOCATION	Bennington, VT
DATE STARTED	2/26/2007	COMPLETED	2/26/2007
GROUND ELEVATION	701.74 ft	WELL/BORING DIAMETER	2"
DRILLING CONTRACTOR	Boart Longyear	MEASURING POINT ELEVATION (ft)	701.48
DRILLING METHOD	Roto Sonic	GROUNDWATER ELEVATION (ft)	689.87
LOGGED BY	Moore	CHECKED BY	Ravella
GROUNDWATER ELEVATION DATE	2/28/07		
NOTES			

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID screen (ppm)	WELL DIAGRAM
0							
	SC	47	SW		SAND, SILT, AND GRAVEL Topsoil, poorly sorted (well graded), loose, moist, dark brown.	0.8	
	SC				MEDIUM TO COARSE SAND, SILT AND GRAVEL poorly sorted (well graded), loose, moist, orange brown.	0.6	
	SC					0.9	
	SC					0.6	
	SC					0.9	
5	SC	93	SW		MEDIUM TO COARSE SAND, SILT AND GRAVEL poorly sorted (well graded), loose, moist, orange brown. BOULDERS with coarse to medium sand, and silt, Rock flour, poorly sorted (well graded), loose, moist, orange brown/ tan.	0.7	
	SC					2.3	
	SC					4.3	
	SC					0.5	
	SC					4.3	
10	SC	52	GW		LARGE COBBLES, GRAVEL, SAND and silt, Rock flour, poorly sorted (well graded), loose, moist. VERY COARSE SAND AND GRAVEL with medium sand and trace silt, Some large Cobbles, very poorly sorted (well graded), very loose, wet.	12.3	
	SC					1.5	
	SC					1.2	
	SC					17.4	
	SC					1.9	
15	SC	33	GW		COBBLES, GRAVEL, SILT AND SAND poorly sorted (well graded), medium loose, wet, orange brown/ brown. COBBLES, GRAVEL, AND COARSE TO MEDIUM SAND poorly sorted (well graded), loose, wet.	2.1	
	SC					2.0	
20		0			Bottom of hole at 20.0 feet.		

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WELL NUMBER ERM-13

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CLIENT <u>Energizer</u>	PROJECT NAME <u>Energizer-Bennington</u>
PROJECT NUMBER <u>0044701</u>	PROJECT LOCATION <u>Bennington, VT</u>
DATE STARTED <u>2/26/2007</u> COMPLETED <u>2/26/2007</u>	GROUND ELEVATION <u>701.46 ft</u> WELL/BORING DIAMETER <u>2"</u>
DRILLING CONTRACTOR <u>Boart Longyear</u>	MEASURING POINT ELEVATION (ft) <u>-</u>
DRILLING METHOD <u>Roto Sonic</u>	GROUNDWATER ELEVATION (ft) <u>691.15</u>
LOGGED BY <u>Moore</u> CHECKED BY <u>Ravella</u>	GROUNDWATER ELEVATION DATE <u>2/28/07</u>
NOTES	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID screen (ppm)	WELL DIAGRAM
0							
	SC		SW		MEDIUM TO COARSE SAND AND GRAVEL with silt, poorly sorted (well graded), loose, dry, tan.	1.0	
	SC		SW		MEDIUM TO COARSE SAND AND GRAVEL with silt, poorly sorted (well graded), loose, dry, dark brown.	38.8	
	SC	100	SW		MEDIUM TO COARSE SAND AND GRAVEL with silt, poorly sorted (well graded), loose, dry, tan.	1.9	
	SC		SP-SM		FINE TO MEDIUM SILTY SAND with cobbles/ gravel, poorly sorted (well graded), loose, moist, orange brown.	1.0	
5	SC				BOULDERS tan.	1.1	
	SC		SW		MEDIUM TO COARSE SAND AND GRAVEL with cobbles and silt, poorly sorted (well graded), loose, moist, orange brown.	19.8	← Bentonite
	SC					5.6	
	SC	53			FRACTURED ROCK.	34.5	
	SC					8.7	
10	SC					15.6	
	SC		SW		SILTY SAND AND GRAVEL with cobbles, poorly sorted (well graded), loose, moist, orange brown.	21.8	
	SC		GW		COBBLES/ GRAVEL with medium to coarse sand and silt, poorly sorted (well graded), loose, wet, orange brown.	18.3	
	SC	50	SW		MEDIUM TO COARSE SAND AND GRAVEL with trace silt, poorly sorted (well graded), loose, wet, orange brown.	13.9	
	SC					4.5	
15	SC					0.9	
	SC		SW		MEDIUM TO COARSE SAND AND GRAVEL with trace silt, poorly sorted (well graded), loose, wet, orange brown.	1.6	← 0.020 slot screen
	SC					0.3	
	SC	75	SM		FINE SAND/SILT with some medium to coarse sand, orange brown.	0.2	← no. 2 sand filter pack
	SC		SM		FINE SAND/SILT stiff, wet, orange brown/ olive grey.	0.2	
20	SC					0.5	← 0.010 slot screen
					Bottom of hole at 22.0 feet.		

ENERGIZER ENERGIZER-BENNINGTON.GPJ 3/20/07

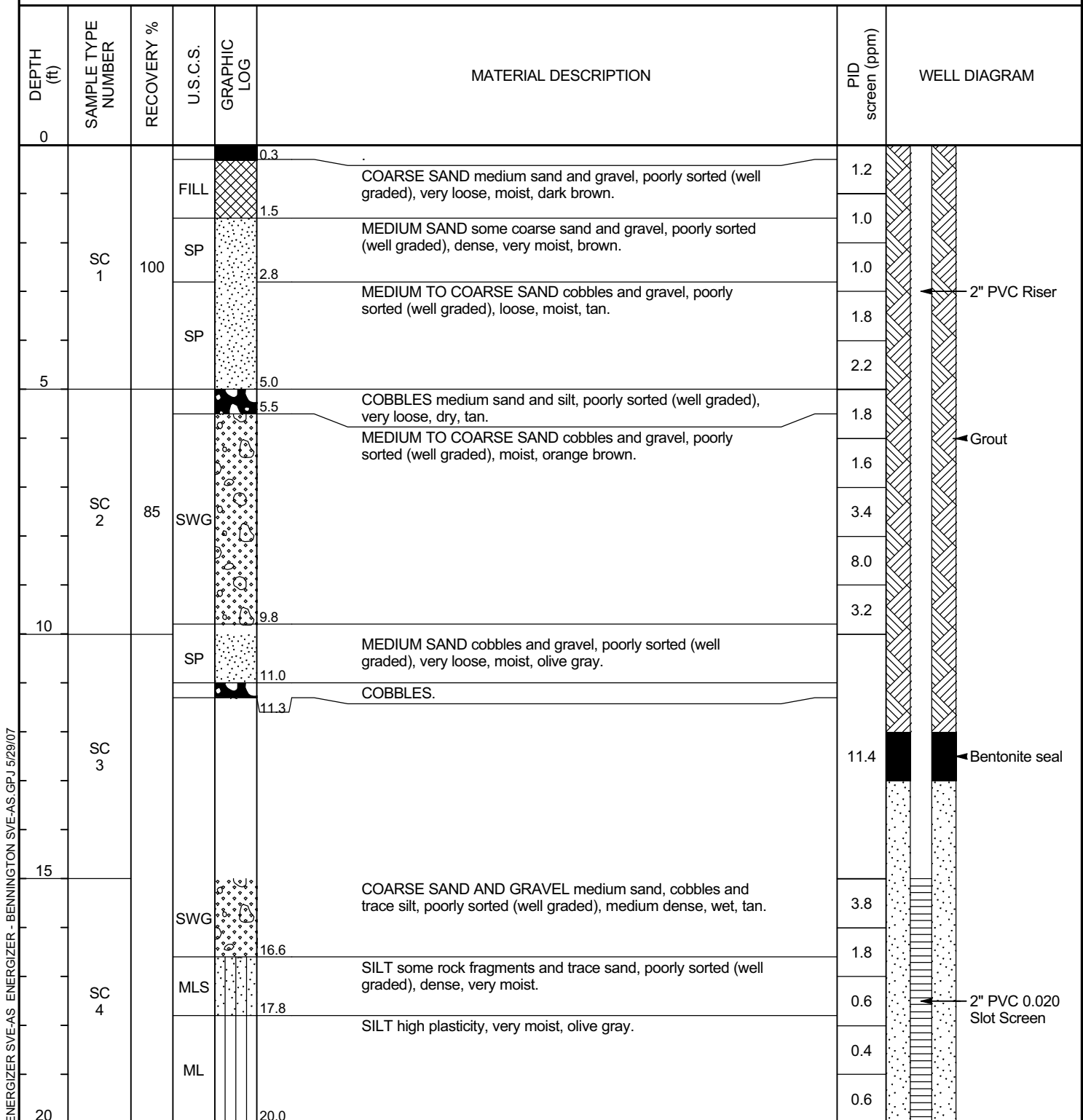


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WELL ID: ERM-16

PAGE 1 OF 1

CLIENT	Energizer	PROJECT NAME	IRM Installation
PROJECT NUMBER	0066698	PROJECT LOCATION	Bennington, VT
DATE STARTED	5/9/07	COMPLETED	5/9/07
GROUND ELEVATION		WELL/BORING DIAMETER	6"
DRILLING CONTRACTOR	Boart Longyear		
DRILLING METHOD	Mini-Sonic		
LOGGED BY	Anzenberger	CHECKED BY	Moore
NOTES	Flush mount roadbox		



Bottom of hole at 20.0 feet.



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MW/B-102
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Client: Energizer Holdings, Inc.

Project Name: Energizer - Bennington

Project Number: 0529121

Project Location: 401 Gage Street, Bennington, Vermont

DRILLING CONTRACTOR: Cascade Drilling

TOTAL DEPTH: 15 feet bgs

SAMPLE TYPE

GRAPHIC LOG LEGEND

DRILLING METHOD: Pre-Cleared/Sonic Drilling

DIAMETER: 6 inches

Pre-Cleared

Poorly-graded Gravel

Poorly-graded Sand

DATE BORING COMPLETED: 7/7/2020

LOGGED BY: K. Popyack

Sonic Drilling

Poorly-graded Gravelly Sand

Silt

DATE WELL INSTALLED: 7/7/2020

CHECKED BY: H. Usle

GROUND ELEVATION: 700.90 feet amsl

NORTHING: 1454982.878

PVC ELEVATION: 700.31 feet amsl

EASTING: 139289.9588

NOTES: Depth to groundwater collected on 7/13/2020. Horizontal survey datum in VT SPCS NAD83; vertical in NAVD88 (survey feet).

DEPTH (feet bgs)	ELEVATION (feet amsl)	SAMPLE TYPE	RECOVERY (inches)	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
		PC							
		PC							
		PC	60	100			NO RECOVERY, Soil logging not conducted from 0 to 5 feet bgs. Subsurface material pre-cleared using vacuum excavation.		
		PC							
5	696	PC							
					GP		Brown, COBBLES, and subangular and subrounded sandy gravel, poorly sorted, loose, moist.	0.0	
								0.0	
		SC	36	60	SP		Brown, FINE SAND, few cobbles, poorly sorted, loose, wet.	0.0	
								0.0	
					SP		Brown, COARSE SAND AND GRAVEL, few cobbles, poorly sorted, loose, wet.	0.0	
10	691							0.0	
					SP		Dark Brown, COARSE SAND, loose, saturated.	0.0	
								0.0	
		SC	40	67	SP		Dark Brown, COARSE SAND AND GRAVEL, few cobbles, poorly sorted, loose, wet.	0.0	
								0.0	
					SP		Light Brown, COARSE SAND AND GRAVEL, few cobbles, poorly sorted, loose, wet.	0.0	
15	686							0.0	
					ML		Brown, SILT, compact.	0.0	
							Bottom of Boring @ 15.0 feet bgs		
20	681								

ACRONYM LEGEND:

amsl = above mean sea level; bgs = below ground surface; NAD = North American Datum; NAVD = North American Vertical Datum; NR = no recovery; ppm = parts per million; PID = photoionization detector; PVC = polyvinyl chloride casing; U.S.C.S = Unified Soil Classification System; VT SPCS = Vermont State Plane Coordinate System.



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MW/B-103
PAGE 1 OF 1

Client: Energizer Holdings, Inc.

Project Name: Energizer - Bennington

Project Number: 0529121

Project Location: 401 Gage Street, Bennington, Vermont

DRILLING CONTRACTOR: Cascade Drilling

TOTAL DEPTH: 20 feet bgs

SAMPLE TYPE

GRAPHIC LOG LEGEND

DRILLING METHOD: Pre-Cleared/Sonic Drilling

DIAMETER: 6 inches

Pre-Cleared

Poorly-graded Sandy Gravel

Poorly-graded Sand

DATE BORING COMPLETED: 7/7/2020

LOGGED BY: K. Popyack

Sonic Drilling

Poorly-graded Gravelly Sand

Silt

DATE WELL INSTALLED: 7/7/2020

CHECKED BY: H. Usle

GROUND ELEVATION: 701.05 feet amsl

NORTHING: 1455001.052

PVC ELEVATION: 700.47 feet amsl

EASTING: 139404.2664

NOTES: Depth to groundwater collected on 7/13/2020. Horizontal survey datum in VT SPCS NAD83; vertical in NAVD88 (survey feet).

DEPTH (feet bgs)	ELEVATION (feet amsl)	SAMPLE TYPE	RECOVERY (inches)	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
		PC							
		PC							
		PC	60	100			NO RECOVERY, Soil logging not conducted from 0 to 5 feet bgs. Subsurface material pre-cleared using vacuum excavation.	0.0	
		PC						0.0	
		PC						0.0	
5	696	PC						0.0	
					GP		Brown, SANDY GRAVEL, subrounded poorly sorted, loose, wet.	0.0	
		SC	60	100				0.0	
					SP		Light Brown, SAND, some subrounded gravel, gray, light brown and white gravels, poorly sorted, dry.	0.0	
								2.1	
					SP		FINE SAND, few gravel, cobble at 9.5 feet bgs, loose, dry.	0.0	
10	691								
		SC	0	0			NO RECOVERY.	NR	
15	686								
					SP		Brown, COARSE SAND AND GRAVEL, few cobbles, minor silt, poorly sorted, loose, wet.	0.0	
		SC	60	100				0.0	
								0.0	
					ML		Gray, SILT, compact, wet.	0.0	
20	681							0.0	
							Bottom of Boring @ 20.0 feet bgs		

ACRONYM LEGEND:

amsl = above mean sea level; bgs = below ground surface; NAD = North American Datum; NAVD = North American Vertical Datum; NR = no recovery; ppm = parts per million; PID = photoionization detector; PVC = polyvinyl chloride casing; U.S.C.S = Unified Soil Classification System; VT SPCS = Vermont State Plane Coordinate System.



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MW/B-104
PAGE 1 OF 1

Client: Energizer Holdings, Inc.

Project Name: Energizer - Bennington

Project Number: 0529121

Project Location: 401 Gage Street, Bennington, Vermont

DRILLING CONTRACTOR: Cascade Drilling

TOTAL DEPTH: 16 feet bgs

SAMPLE TYPE

GRAPHIC LOG LEGEND

DRILLING METHOD: Pre-Cleared/Sonic Drilling

DIAMETER: 6 inches

Pre Cleared

Poorly-graded Sandy Gravel

Poorly-graded Gravelly Sand

DATE BORING COMPLETED: 7/8/2020

LOGGED BY: K. Popyack

Sonic Drilling

Silt

DATE WELL INSTALLED: 7/8/2020

CHECKED BY: H. Usle

GROUND ELEVATION: 705.82 feet amsl

NORTHING: 1455309.138

PVC ELEVATION: 705.34 feet amsl

EASTING: 139363.4937

NOTES: Depth to groundwater collected on 7/13/2020. Horizontal survey datum in VT SPCS NAD83; vertical in NAVD88 (survey feet).

DEPTH (feet bgs)	ELEVATION (feet amsl)	SAMPLE TYPE	RECOVERY (inches)	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
		PC						0.0	Flush-Mount Protective Casing
		PC						0.0	Concrete Pad (2 x 2 feet)
		PC	60	100			NO RECOVERY, Soil logging not conducted from 0 to 5 feet bgs. Subsurface material pre-cleared using vacuum excavation.	0.0	Hydrated Granular Bentonite (1 to 3 feet bgs)
		PC						0.0	
5	701	PC						0.0	#0 Filter Sand (3 to 15 feet bgs)
		SC	60	100	GP		SANDY GRAVEL, anthropogenic material from preclearing activities, product visible at 5 feet bgs, "oil-like" material and odor present, poorly sorted, loose, wet.	51.7	
								0.0	
					GP		Light Brown, SANDY GRAVEL, some cobbles, poorly sorted, loose, wet.	0.0	
10	696							0.0	
					SP		Brown, COARSE SAND AND GRAVEL, few cobbles, poorly sorted, loose, saturated.	0.0	Well Screen (2 SCH 40 PVC/ 0.01 slot) (5 to 15 feet bgs)
								0.0	
		SC	72	100	SP		Brown, COARSE SANDY GRAVEL, some cobbles, poorly sorted, loose, wet to saturated.	0.0	
								0.0	
								0.0	
15	691				SP		Brown, SAND AND GRAVEL, few cobbles, lithic sand, poorly sorted, loose, wet.	0.0	
								0.0	
					ML		SILT, dense, wet, gray mottling.	0.0	End Cap
								0.0	
							Bottom of Boring @ 16.0 feet bgs		
20	686								

ACRONYM LEGEND:

amsl = above mean sea level; bgs = below ground surface; NAD = North American Datum; NAVD = North American Vertical Datum; NR = no recovery; ppm = parts per million; PID = photoionization detector; PVC = polyvinyl chloride casing; U.S.C.S = Unified Soil Classification System; VT SPCS = Vermont State Plane Coordinate System.



APPENDIX B

GROUNDWATER GAUGING FORM

Monitoring Well Gauging Form**Energizer Holdings, Inc., Bennington, Vermont**

Well ID	Depth To Water (ft bTOC)	Total Depth (ft bTOC)	Date / Time	Notes
ERM-8				
ERM-11S				
ERM-12				
ERM-16				
MW-101				
MW-102				
MW-103				
MW-104				



APPENDIX C

GROUNDWATER SAMPLING FORM

Site Name: _____

Low-Flow Groundwater Sampling Form

Well ID:	Sample ID:
Date:	Well Diameter:
Sampling Personnel:	Casing Type:
Weather Conditions:	Sampling Device:
Time:	Measuring Point:
YSI File Name:	YSI Unit Serial Number:
Total Depth (T.D.):	Screen Length:
Depth to Water (D.T.W): ⁽¹⁾	Depth Top of Sample:
Total Volume Purged:	Depth bottom Sample:
Average Purge Rate:	Sample Method:
Tubing Type:	Date to Lab:

Pump Intake (ft below M.P.):	color*:	odor*:
------------------------------	---------	--------

Time:	DTW: ³ (feet)	Purge Rate (ml/min)	Temp (°C)	SpC (uS/cm)	Cond (uS/cm)	Turb. NTU	DO (mg/L)	pH (std units)	ORP mV
Elapsed Time		Stabilization Criteria	+/- 3%	+/- 3%	+/- 3%	+/- 10%	+/- 10%	+/- 0.1 unit	+/- 10 mV
0:00									
5:00									
10:00									
15:00									
20:00									
25:00									
30:00									
35:00									
40:00									
45:00									
50:00									
55:00									
60:00									
65:00									
70:00									
75:00									
80:00									
85:00									
90:00									
95:00									
100:00									

Sample ID's and Times:	
------------------------	--

_____	_____
_____	_____

# of Bottles	Bottle Size	Bottle Type	Preservative	Analysis	Lab
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Materials Used (filters, tubing, etc.):

- Notes:
- (1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
 - (2) - Stabilization criteria based on three most recent consecutive measurements.
 - (3) - Total drawdown in well to be less than 0.1 m (0.32 ft). Purging rate to be lowered as necessary to keep drawdown below 0.1 m (0.32 ft).
- *Record color and odor at time of sample collection