

Groundwater Monitoring Report Cover Sheet

Site Name: Former CR Bard Facility

Town: Fitzwilliam

Permit #: 198905021-F-004

Type of Submittal *(Check all that apply)*

- ☐ Periodic Summary Report (year):
- ☒ Data Submittal *(month and year per Condition #7 of Permit)*: June 4, 2019
-

Check each box where the answer to any of the following questions is "YES"

Sampling Results

- ☐ During the most recent monitoring event, were any new compounds detected at any sampling point?
Well/Compound:
- ☐ Are there any detections of contamination in drinking water that is untreated prior to use?
Well/Compound:
☐ Do compounds detected exceed AGQS?
- ☐ Was free product detected for the first time in any monitoring point?
☐ Surface Water *(visible sheen)*
☐ Groundwater *(1/8" or greater thickness)*
Location/Thickness:

Contaminant Trends

- ☐ Do sampling results show an increasing concentration trend in any source area monitoring well?
Well/Compound:
- ☐ Do sampling results indicate an AGQS violation in any of the GMZ boundary wells?
Well/Compound:

Recommendations

- ☐ Does the report include any recommendations requiring DES action? *(Do not check this box if the only recommendation is to continue with existing permit conditions.)*

This form is to be completed for groundwater monitoring data submittals and periodic summary reports submitted to the New Hampshire Department of Environmental Services Waste Management Division.

**DES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095**

**PERIODIC DATA SUBMITTAL
Former C.R. Bard Facility
179 Route 12
Fitzwilliam, NH 03447**

**NHDES Site #: 198905021
Project Type: LUST
Project Number: 1095**

Prepared For:
C. R. Bard, Inc.
100 Crossings Boulevard
Warwick, RI 02886
Phone Number (401) 825-8686
RP Contact Name: Michael Vanasse
RP Contact Email: michael.vanasse@crbard.com



Prepared By:
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May 29, 2019



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May 29, 2019

Mr. Thomas Fargo, C.G.
New Hampshire Department of Environmental Services
Waste Management Division, Oil Remediation & Compliance Bureau
29 Hazen Drive, P.O. Box 96
Concord, NH 03302-0095

Re: GMP Periodic Summary Report
Groundwater Management Permit DES# 198905021-F-004
Project Number: 1095
Former CR Bard Site - Fitzwilliam, NH
Groundwater Sampling Results – April 2019

Dear Mr. Fargo

On behalf of C.R. Bard, Inc, Wood Environment & Infrastructure Solutions, Inc. (Wood E&IS) conducted groundwater sampling at the former C.R. Bard Site in Fitzwilliam, NH (the Site) on April 18, 2018. Sampling and analysis were conducted in accordance with the Groundwater Management Permit (GMP), dated November 14, 2018. The April 2019 event included the collection of groundwater samples from four wells (TDS-2, TDS-3, FT-1, and T1-B) for analysis of the New Hampshire Department of Environmental Services (NHDES) Petroleum and Hazardous Waste Remediation Full List of Analytes for Volatile Organics. The property that contains this Groundwater Management Zone is owned by Turnkey Lumber Corporation of Lunenburg, Massachusetts.

Static groundwater levels and the presence or absence of non-aqueous phase liquid (NAPL) were measured in five wells (TDS-1, TDS-2, TDS-3, FT-1, and T1-B) during a synoptic gauging round prior to sample collection (Figure 1) on April 18, 2019. In general, the water elevations in 2019 were between 0.02 and 0.18 feet lower than the water levels measured in 2018 except for well FT-1 which was 0.14 feet higher. No LNAPL was measured in FT-1 which is the same result as in 2018 and 2017. LNAPL was measured at 0.01 feet in TDS-2 which is similar in thickness as measured in 2018. A summary of water-level and NAPL measurements is included as Attachment 1.

Groundwater samples were collected from FT-1, T1B, TDS-2, and TDS-3 on April 18. Groundwater samples were collected using low-flow techniques. Groundwater samples were submitted to Eastern Analytical of Concord, New Hampshire (EA), and the laboratory results are summarized in Attachment 2. The EA laboratory report is included as Attachment 3. The purge water from the groundwater sampling was containerized, picked up by a licensed transportation contractor (Clean Venture, Inc.), and disposed of at Cycle Chem Inc. of Elizabeth, NJ. After the sampling was completed in TDS-2, an absorbent sock was installed in the well.

No new compounds were detected during the April 2019 sampling round. Naphthalene was the only compound detected above the NHDES Ambient Groundwater Quality Standards (AGQS). Naphthalene was detected at a



concentration of 230 µg/L at well T1-B, above the AGQS of 100 µg/L. The naphthalene concentration in T1-B continues to show a general inverse relationship with the groundwater elevation (i.e., as the water elevation decreases, the naphthalene concentration increases).

The laboratory results are considered to meet the requirements for defensibility, precision, accuracy and reporting of data and are therefore of sufficient quality to support site decisions. All field duplicate RPDs were within criteria. The QA/QC items outside of the control limits were:

- Samples TDS-2 and T1-B exhibited potential non-target interference for n-butylbenzene. This analyte was J-qualified due to the potential high bias.
- Bromomethane (24%/18%) recovered low in the LCS/LCSD associated with all samples. This analyte was UJ-qualified due to the potential low bias.
- 1,4-Dioxane had an elevated LCS/LCSD RPD of 21%. 1,4-Dioxane is non-detect in all associated samples and not impacted by the non-directional bias. No qualifications are necessary.

The next data submittal will follow the April 2020 sampling event. The April 2019 data indicates a similar naphthalene concentration in well T1-B but the overall trend line shows decreasing concentrations for this compound. Well gauging continues to indicate no NAPL in well FT-1 and a similar NAPL thickness in well TDS-2 compared to the measurement in 2018. In addition, the VOC results in groundwater at the down-gradient location TDS-3 are also stable and below their respective AGQS values. If you have any questions on the enclosed summary of data, please call me (978) 392-5362.

Sincerely,
Wood Environment & Infrastructure Solutions, Inc.



John Rice
Geologist

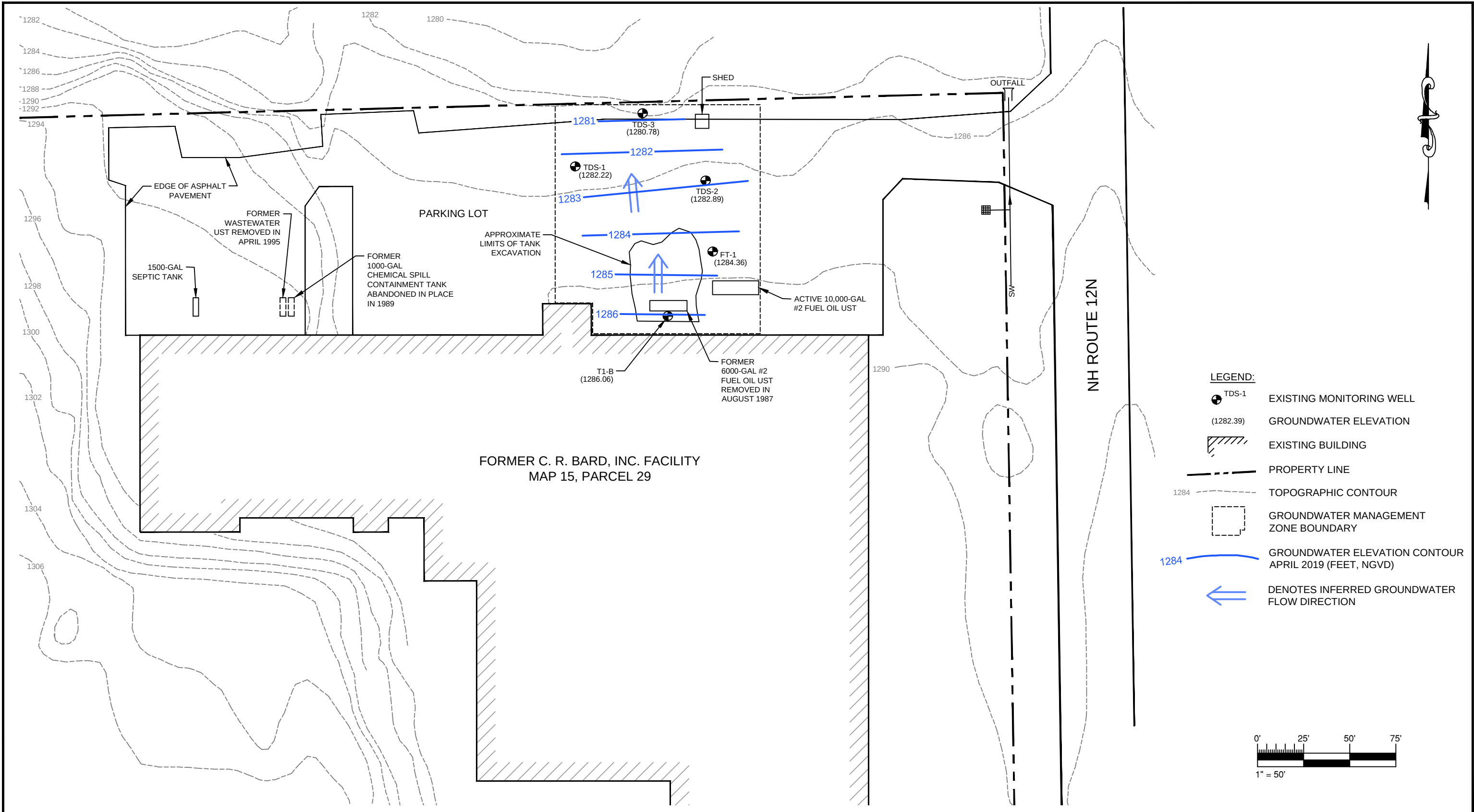


for

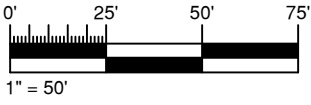
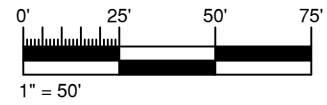
Kim Henry
Program Manager

Attachments

FIGURE 1



- LEGEND:**
- TDS-1 EXISTING MONITORING WELL
 - (1282.39) GROUNDWATER ELEVATION
 - EXISTING BUILDING
 - PROPERTY LINE
 - 1284 TOPOGRAPHIC CONTOUR
 - GROUNDWATER MANAGEMENT ZONE BOUNDARY
 - 1284 GROUNDWATER ELEVATION CONTOUR APRIL 2019 (FEET, NGVD)
 - ← DENOTES INFERRED GROUNDWATER FLOW DIRECTION



	CLIENT LOGO	CLIENT: C. R. BARD, INC.	DRAWN BY: B. GIRARDET	 271 MILL ROAD, 3RD FLOOR, CHELMSFORD, MA 01824	DATE: MAY 2019
			CHECKED BY: J. RICE		PROJECT NO: 3651190106
		DATUM: N/A	REV. NO.: 0		
		PROJECTION: N/A	TITLE GROUNDWATER CONTOUR MAP APRIL 18, 2019		FIGURE No. 1
		SCALE: AS SHOWN			
PROJECT FORMER C. R. BARD FACILITY FITZWILLIAM, NEW HAMPSHIRE					

ATTACHMENT 1

Well Gauging Data Table

Table 1
Well Gauging Data
Former C.R. Bard Facility, Fitzwilliam, NH
NHDES # 198905021

Well ID	Gauging Date	PVC Elevation (feet NGVD)	DTB (feet)	DTW (feet)	DTNAPL (feet)	NAPL Thickness (feet)	Groundwater Elevation (feet NGVD)	Comments
TDS-1	8/24/1998	1285.34	11.66	5.40	ND	ND	1279.94	
TDS-1	9/16/1998	1285.34	11.66	5.95	ND	ND	1279.39	
TDS-1	2/8/2002	1285.34	11.66	4.57	ND	ND	1280.77	no sheen, no odor
TDS-1	5/17/2002	1285.34	11.66	3.37	ND	ND	1281.97	no sheen, no odor
TDS-1	11/13/2002	1285.34	11.66	3.43	ND	ND	1281.91	no sheen, no odor
TDS-1	5/7/2003	1285.34	11.66	3.09	ND	ND	1282.25	no sheen, no odor
TDS-1	11/25/2003	1285.34	11.66	3.75	ND	ND	1281.59	no sheen, slight odor
TDS-1	4/27/2004	1285.34	11.66	2.60	ND	ND	1282.74	no sheen, no odor
TDS-1	6/23/2004	1285.34	11.66	4.03	ND	ND	1281.31	rust on probe, no odor
TDS-1	8/13/2004	1285.34	11.66	4.90	ND	ND	1280.44	no sheen, strong odor
TDS-1	9/23/2004	1285.34	11.66	3.87	ND	ND	1281.47	no sheen, no odor
TDS-1	10/6/2004	1285.34	11.66	4.04	ND	ND	1281.30	
TDS-1	10/15/2004	1285.34	11.66	4.16	ND	ND	1281.18	
TDS-1	11/4/2004	1285.34	11.66	4.02	ND	ND	1281.32	
TDS-1	11/23/2004	1285.34	11.66	4.03	ND	ND	1281.31	no sheen, no odor, rust
TDS-1	3/29/2005	1285.09	11.66	2.50	ND	ND	1282.59	rust
TDS-1	4/29/2005	1285.09	11.66	3.11	ND	ND	1281.98	
TDS-1	5/31/2005	1285.09	11.66	3.41	ND	ND	1281.68	
TDS-1	6/22/2005	1285.09	11.66	3.89	ND	ND	1281.20	
TDS-1	7/20/2005	1285.09	11.66	3.44	ND	ND	1281.65	
TDS-1	8/18/2005	1285.09	11.66	4.51	ND	ND	1280.58	
TDS-1	9/16/2005	1285.09	11.66	5.65	ND	ND	1279.44	
TDS-1	10/18/2005	1285.09	11.66	3.32	ND	ND	1281.77	
TDS-1	11/29/2005	1285.09	11.66	2.65	ND	ND	1282.44	
TDS-1	12/23/2005	1285.09	11.66	3.91	ND	ND	1281.18	
TDS-1	1/17/2006	1285.09	11.66	3.28	ND	ND	1281.81	
TDS-1	2/17/2006	1285.09	11.66	-	-	-	-	Could Not Gauge
TDS-1	3/31/2006	1285.09	11.66	4.76	ND	ND	1280.33	
TDS-1	4/14/2006	1285.09	11.66	3.60	ND	ND	1281.49	
TDS-1	5/25/2006	1285.09	11.66	3.18	ND	ND	1281.91	
TDS-1	6/30/2006	1285.09	11.66	3.05	ND	ND	1282.04	
TDS-1	7/31/2006	1285.09	11.66	3.98	ND	ND	1281.11	
TDS-1	8/31/2006	1285.09	11.66	4.35	ND	ND	1280.74	
TDS-1	9/29/2006	1285.09	11.66	-	ND	ND	-	Could Not Gauge
TDS-1	10/19/2006	1285.09	11.66	3.85	ND	ND	1281.24	
TDS-1	11/30/2006	1285.09	11.66	3.99	ND	ND	1281.10	
TDS-1	1/17/2007	1285.09	11.66	3.26	ND	ND	1281.83	
TDS-1	2/28/2007	1285.09	11.66	4.45	ND	ND	1280.64	
TDS-1	3/22/2007	1285.09	11.66	3.25	ND	ND	1281.84	no sheen, odor
TDS-1	4/11/2007	1285.09	11.66	3.25	ND	ND	1281.84	no sheen, no odor
TDS-1	5/16/2007	1285.09	11.17	3.50	ND	ND	1281.59	no sheen, no odor
TDS-1	6/15/2007	1285.09	11.17	3.95	ND	ND	1281.14	no sheen, no odor
TDS-1	7/12/2007	1285.09	11.17	4.43	ND	ND	1280.66	no sheen, strong odor.
TDS-1	8/15/2007	1285.09	11.17	5.24	ND	ND	1279.85	no sheen, slight to moderate odor.
TDS-1	9/15/2007	1285.09	11.17	5.29	ND	ND	1279.80	no sheen, slight odor.
TDS-1	10/8/2007	1285.09	11.17	6.97	ND	ND	1278.12	spotty sheen, slight odor
TDS-1	11/20/2007	1285.09	11.17	4.68	ND	ND	1280.41	
TDS-1	12/14/2007	1285.09	11.17	4.72	ND	ND	1280.37	no sheen, slight odor.
TDS-1	1/17/2008	1285.09	11.17	3.60	ND	ND	1281.49	no sheen, slight odor.
TDS-1	2/15/2008	1285.09	11.17	3.33	ND	ND	1281.76	no sheen, slight odor.
TDS-1	3/14/2008	1285.09	11.17	2.97	ND	ND	1282.12	no sheen, no odor
TDS-1	4/19/2008	1285.09	11.17	3.23	ND	ND	1281.86	no sheen, no odor
TDS-1	4/7/2009	1285.09	11.17	2.41	ND	ND	1282.68	slight sheen, odor
TDS-1	4/29/2010	1285.09	11.17	2.97	ND	ND	1282.12	slight odor
TDS-1	4/13/2011	1285.09	11.17	3.19*	ND	ND	1281.90	no sheen, no odor
TDS-1	4/25/2012	1284.83	11.17	2.64	ND	ND	1282.19	no sheen, no odor
TDS-1	4/30/2013	1284.83	11.17	3.31	ND	ND	1281.52	no sheen, no odor
TDS-1	4/30/2014	1284.83	11.17	2.75	ND	ND	1282.08	no sheen, no odor
TDS-1	4/30/2015	1284.83	11.17	3.22	ND	ND	1281.61	no sheen, no odor
TDS-1	4/21/2016	1284.83	11.17	3.29	ND	ND	1281.54	no sheen, no odor
TDS-1	4/24/2017	1284.83	10.59	2.87	ND	ND	1281.96	no sheen, no odor
TDS-1	4/19/2018	1284.83	10.52	2.44	ND	ND	1282.39	no sheen, no odor
TDS-1	4/18/2019	1284.83	6.85	2.61	ND	ND	1282.22	no sheen, no odor

* = measurement taken after pumping started

Table 1
Well Gauging Data
Former C.R. Bard Facility, Fitzwilliam, NH
NHDES # 198905021

Well ID	Gauging Date	PVC Elevation (feet NGVD)	DTB (feet)	DTW (feet)	DTNAPL (feet)	NAPL Thickness (feet)	Groundwater Elevation (feet NGVD)	Comments
TDS-2	8/24/1998	1285.71	10.99	5.55	ND	ND	1280.16	
TDS-2	9/16/1998	1285.71	10.99	6.08	ND	ND	1279.63	
TDS-2	2/8/2002	1285.71	10.99	4.96	ND	ND	1280.75	sheen on probe, petroleum-like odor
TDS-2	5/17/2002	1285.71	10.99	3.60	ND	ND	1282.11	sheen on probe, petroleum-like odor
TDS-2	11/13/2002	1285.71	10.99	5.05	5.04	0.01	1280.66	sheen on probe, petroleum-like odor
TDS-2	5/7/2003	1285.71	10.99	3.16	ND	ND	1282.55	slight sheen, slight petroleum-like odor
TDS-2	11/25/2003	1285.71	10.99	3.14	ND	ND	1282.57	sheen on probe, petroleum-like odor
TDS-2	11/25/2003	1285.71	10.99	3.23	3.15	0.08	1282.48	product enters well following purging
TDS-2	12/5/2003	1285.71	10.99	3.47	3.34	0.13	1282.24	dark product on probe, odor
TDS-2	2/12/2004	1285.71	10.99	4.19	ND	ND	1281.52	slight sheen, slight petroleum-like odor
TDS-2	4/27/2004	1285.71	10.99	2.11	ND	ND	1283.60	slight sheen, slight petroleum-like odor
TDS-2	6/23/2004	1285.71	10.99	3.79	3.74	0.05	1281.92	brown sheen, petroleum-like odor.
TDS-2	8/13/2004	1285.71	10.99	4.90	ND	ND	1280.81	no sheen, strong odor
TDS-2	9/23/2004	1285.71	10.99	3.77	ND	ND	1281.94	sheen on probe, petroleum-like odor
TDS-2	10/6/2004	1285.71	10.99	3.82	3.77	0.05	1281.89	
TDS-2	10/6/2004	1285.71	10.99	4.50	ND	ND	1281.21	sheen detected after EFR
TDS-2	10/15/2004	1285.71	10.99	4.02	3.99	0.03	1281.69	
TDS-2	11/4/2004	1285.71	10.99	3.86	3.81	0.05	1281.85	
TDS-2	11/4/2004	1285.71	10.99	3.89	ND	ND	1281.82	after EFR event
TDS-2	11/23/2004	1285.71	10.99	3.87	3.84	0.03	1281.84	sheen, odor
TDS-2	3/29/2005	1285.54	10.99	2.95	2.70	0.25	1282.59	sheen, odor
TDS-2	4/29/2005	1285.54	10.99	2.61	2.58	0.03	1282.93	sheen, odor
TDS-2	5/31/2005	1285.54	10.99	2.95	2.94	0.01	1282.59	sheen, odor
TDS-2	6/22/2005	1285.54	10.99	3.60	3.54	0.06	1281.94	sheen, odor
TDS-2	7/20/2005	1285.54	10.99	3.08	3.04	0.04	1282.46	sheen, odor
TDS-2	8/18/2005	1285.54	10.99	4.41	4.39	0.02	1281.13	sheen, odor
TDS-2	9/16/2005	1285.54	10.99	5.64	5.61	0.03	1279.90	sheen, odor
TDS-2	10/18/2005	1285.54	10.99	3.02	ND	ND	1282.52	sheen, odor
TDS-2	11/29/2005	1285.54	10.99	2.71	2.70	0.01	1282.83	sheen, odor
TDS-2	12/23/2005	1285.54	10.99	3.59	ND	ND	1281.95	sheen, odor
TDS-2	1/17/2006	1285.54	10.99	2.76	ND	ND	1282.78	sheen, odor
TDS-2	2/17/2006	1285.54	10.99	2.86	ND	ND	1282.68	sheen, odor
TDS-2	3/31/2006	1285.54	10.99	3.39	ND	ND	1282.15	sheen, odor
TDS-2	4/14/2006	1285.54	10.99	3.17	ND	ND	1282.37	sheen, odor
TDS-2	5/25/2006	1285.54	10.99	2.72	2.71	0.01	1282.82	sheen, odor
TDS-2	6/30/2006	1285.54	10.99	2.63	2.62	0.01	1282.91	sheen, odor
TDS-2	7/31/2006	1285.54	10.99	3.81	3.80	0.01	1281.73	sheen, odor
TDS-2	8/31/2006	1285.54	10.99	4.19	ND	ND	1281.35	sheen, odor
TDS-2	9/29/2006	1285.54	10.99	4.56	ND	ND	1280.98	sheen, odor
TDS-2	10/19/2006	1285.54	10.99	3.61	ND	ND	1281.93	sheen, odor
TDS-2	11/30/2006	1285.54	10.99	3.29	ND	ND	1282.25	sheen, odor
TDS-2	1/17/2007	1285.54	10.99	3.79	3.78	0.01	1281.75	sheen, odor
TDS-2	2/28/2007	1285.54	10.99	4.21	4.20	0.01	1281.33	sheen, odor
TDS-2	3/22/2007	1285.54	10.99	3.03	ND	ND	1282.51	sheen, odor
TDS-2	4/11/2007	1285.54	10.99	2.81	ND	ND	1282.73	spotty sheen, slight odor
TDS-2	5/16/2007	1285.54	11.40	3.12	ND	ND	1282.42	sheen, odor
TDS-2	6/15/2007	1285.54	11.40	3.60	ND	ND	1281.94	sheen, strong odor
TDS-2	7/12/2007	1285.54	11.40	4.10	ND	ND	1281.44	free product on probe, strong odor.
TDS-2	8/15/2007	1285.54	11.40	5.19	ND	ND	1280.35	sheen, moderate to strong odor.
TDS-2	9/15/2007	1285.54	11.40	6.13	ND	ND	1279.41	no sheen, strong odor.
TDS-2	10/8/2007	1285.54	11.40	7.05	ND	ND	1278.49	sheen/product on probe, strong odor.
TDS-2	11/20/2007	1285.54	11.40	4.78	ND	ND	1280.76	
TDS-2	12/14/2007	1285.54	11.40	4.70	ND	ND	1280.84	no sheen, slight odor
TDS-2	1/17/2008	1285.54	11.40	3.39	ND	ND	1282.15	spotty sheen, odor
TDS-2	2/15/2008	1285.54	11.40	2.81	ND	ND	1282.73	spotty sheen, odor
TDS-2	3/14/2008	1285.54	11.40	2.69	ND	ND	1282.85	sheen, moderate odor
TDS-2	4/19/2008	1285.54	11.40	2.86	2.85	0.01	1282.68	free product on probe, odor.
TDS-2	4/7/2009	1285.54	11.40	2.20	2.16	0.04	1283.34	sheen, odor
TDS-2	4/29/2010	1285.54	11.40	3.00	2.99	0.01	1282.54	NAPL, sheen, odor
TDS-2	4/13/2011	1285.54	11.40	2.63	2.62	0.01	1282.91	NAPL, sheen, odor
TDS-2	4/25/2012	1285.29	11.40	2.61	ND	ND	1282.68	no odor, slight sheen
TDS-2	4/30/2013	1285.29	11.40	3.40	ND	ND	1281.89	slight odor, slight sheen
TDS-2	4/30/2014	1285.29	11.40	2.48	ND	ND	1282.81	NAPL on probe
TDS-2	4/30/2015	1285.29	11.40	2.75	ND	ND	1282.54	slight sheen on purge water
TDS-2	4/21/2016	1285.29	11.40	3.20	2.90	0.30	1282.33	NAPL, sheen, odor
TDS-2	4/24/2017	1285.29	10.81	2.82	2.77	0.05	1282.51	NAPL, sheen, odor
TDS-2	4/19/2018	1285.29	6.80	2.23	2.22	0.01	1283.07	NAPL, sheen
TDS-2	4/18/2019	1285.29	6.85	2.41	2.40	0.01	1282.89	NAPL, sheen

Table 1
Well Gauging Data
Former C.R. Bard Facility, Fitzwilliam, NH
NHDES # 198905021

Well ID	Gauging Date	PVC Elevation (feet NGVD)	DTB (feet)	DTW (feet)	DTNAPL (feet)	NAPL Thickness (feet)	Groundwater Elevation (feet NGVD)	Comments
FT-1	9/16/1998	1286.91	11.15	7.00	ND	ND	1279.91	
FT-1	2/8/2002	1286.91	11.15	5.27	ND	ND	1281.64	no sheen, slight odor
FT-1	5/17/2002	1286.91	11.15	3.28	ND	ND	1283.63	slight sheen, slight petroleum-like odor
FT-1	11/13/2002	1286.91	11.15	4.84	ND	ND	1282.07	no sheen, no odor
FT-1	5/7/2003	1286.91	11.15	3.43	3.37	0.06	1283.48	sheen on probe, petroleum-like odor
FT-1	5/29/2003	1286.91	11.15	3.19	3.09	0.10	1283.72	sheen on probe, petroleum-like odor
FT-1	7/31/2003	1286.91	11.15	5.50	ND	ND	1281.41	slight sheen, slight petroleum-like odor
FT-1	10/2/2003	1286.91	11.15	4.83	ND	ND	1282.08	no sheen, slight petroleum-like odor
FT-1	11/25/2003	1286.91	11.15	3.82	ND	ND	1283.09	no sheen, slight petroleum-like odor
FT-1	12/5/2003	1286.91	11.15	4.04	ND	ND	1282.87	rust on probe
FT-1	2/12/2004	1286.91	11.15	4.87	ND	ND	1282.04	slight sheen, slight odor,
FT-1	4/27/2004	1286.91	11.15	2.55	ND	ND	1284.36	no sheen, no odor
FT-1	6/23/2004	1286.91	11.15	4.31	4.30	0.01	1282.60	brown sheen and petroleum odor
FT-1	8/13/2004	1286.91	11.15	5.66	ND	ND	1281.25	no sheen, strong odor
FT-1	9/23/2004	1286.91	11.15	4.44	ND	ND	1282.47	slight sheen and odor
FT-1	10/6/2004	1286.91	11.15	4.55	ND	ND	1282.36	
FT-1	10/6/2004	1286.91	11.15	4.74	ND	ND	1282.17	
FT-1	10/15/2004	1286.91	11.15	4.77	ND	ND	1282.14	
FT-1	11/4/2004	1286.91	11.15	4.76	ND	ND	1282.15	
FT-1	11/4/2004	1286.91	11.15	4.65	ND	ND	1282.26	after EFR event
FT-1	11/23/2004	1286.91	11.15	4.63	ND	ND	1282.28	rust color, no sheen, no odor
FT-1	3/29/2005	1286.91	11.15	2.56	ND	ND	1284.35	
FT-1	4/29/2005	1286.91	11.15	2.98	ND	ND	1283.93	sheen on probe
FT-1	5/31/2005	1286.91	11.15	3.31	ND	ND	1283.60	
FT-1	6/22/2005	1286.91	11.15	3.95	ND	ND	1282.96	
FT-1	7/20/2005	1286.91	11.15	3.46	ND	ND	1283.45	
FT-1	8/18/2005	1286.91	11.15	5.00	ND	ND	1281.91	
FT-1	9/16/2005	1286.91	11.15	6.37	ND	ND	1280.54	
FT-1	10/18/2005	1286.91	11.15	3.63	ND	ND	1283.28	
FT-1	11/29/2005	1286.91	11.15	3.15	ND	ND	1283.76	
FT-1	12/23/2005	1286.91	11.15	4.16	ND	ND	1282.75	
FT-1	1/17/2006	1286.91	11.15	3.21	ND	ND	1283.70	
FT-1	2/17/2006	1286.91	11.15	3.37	ND	ND	1283.54	
FT-1	3/31/2006	1286.91	11.15	3.92	ND	ND	1282.99	spotty sheen, slight odor
FT-1	4/14/2006	1286.91	11.15	3.68	ND	ND	1283.23	
FT-1	5/25/2006	1286.91	11.15	3.15	ND	ND	1283.76	
FT-1	6/30/2006	1286.91	11.15	3.02	ND	ND	1283.89	
FT-1	7/31/2006	1286.91	11.15	4.33	ND	ND	1282.58	
FT-1	8/31/2006	1286.91	11.15	4.91	ND	ND	1282.00	
FT-1	9/29/2006	1286.91	11.15	5.43	ND	ND	1281.48	
FT-1	10/19/2006	1286.91	11.15	4.02	ND	ND	1282.89	
FT-1	11/30/2006	1286.91	11.15	3.74	ND	ND	1283.17	
FT-1	1/17/2007	1286.91	11.15	2.88	ND	ND	1284.03	
FT-1	2/28/2007	1286.91	11.15	4.94	ND	ND	1281.97	
FT-1	3/22/2007	1286.91	11.15	3.56	ND	ND	1283.35	no sheen, odor
FT-1	4/11/2007	1286.91	11.15	3.30	ND	ND	1283.61	no sheen, no odor
FT-1	5/16/2007	1286.91	11.44	3.60	ND	ND	1283.31	no sheen, no odor
FT-1	6/15/2007	1286.91	11.44	3.60	ND	ND	1283.31	slight sheen, odor
FT-1	7/12/2007	1286.91	11.44	4.97	ND	ND	1281.94	no sheen, slight odor.
FT-1	8/15/2007	1286.91	11.44	5.98	ND	ND	1280.93	no sheen, odor.
FT-1	9/15/2007	1286.91	11.44	7.16	ND	ND	1279.75	no sheen, slight odor.
FT-1	10/8/2007	1286.91	11.44	8.06	ND	ND	1278.85	no sheen, slight odor.
FT-1	11/20/2007	1286.91	11.44	5.79	ND	ND	1281.12	
FT-1	12/14/2007	1286.91	11.44	5.65	ND	ND	1281.26	no sheen, slight odor.
FT-1	1/17/2008	1286.91	11.44	4.09	ND	ND	1282.82	no sheen, no odor
FT-1	2/15/2008	1286.91	11.44	3.42	ND	ND	1283.49	no sheen, slight odor.
FT-1	3/14/2008	1286.91	11.44	3.23	ND	ND	1283.68	no sheen, no odor
FT-1	4/19/2008	1286.91	11.44	3.31	ND	ND	1283.60	no sheen, slight odor.
FT-1	4/7/2009	1286.91	11.44	2.38	2.36	0.02	1284.53	sheen, odor
FT-1	4/29/2010	1286.91	11.44	3.47	3.40	0.07	1283.44	no sheen, slight odor.
FT-1	4/13/2011	1286.91	11.35	3.00	2.95	0.05	1283.91	NAPL, sheen, odor
FT-1	4/25/2012	1286.91	11.35	3.50	3.35	0.15	1283.41	NAPL, no sheen, slight odor
FT-1	4/30/2013	1286.91	11.35	3.90	3.75	0.15	1283.01	NAPL, slight sheen, slight odor
FT-1	4/30/2014	1286.91	11.35	2.81	2.79	0.02	1284.10	NAPL
FT-1	4/30/2015	1286.91	11.35	3.26	3.25	0.01	1283.65	NAPL, slight sheen, slight odor
FT-1	4/21/2016	1286.91	11.35	3.68	3.47	0.21	1283.40	NAPL, slight sheen, slight odor
FT-1	4/24/2017	1286.91	11.06	3.32	ND	ND	1283.59	sheen and odor
FT-1	4/19/2018	1286.91	11.00	2.69	ND	ND	1284.22	slight sheen
FT-1	4/18/2019	1286.91	10.70	2.55	ND	ND	1284.36	sheen and odor

Table 1
Well Gauging Data
Former C.R. Bard Facility, Fitzwilliam, NH
NHDES # 198905021

Well ID	Gauging Date	PVC Elevation (feet NGVD)	DTB (feet)	DTW (feet)	DTNAPL (feet)	NAPL Thickness (feet)	Groundwater Elevation (feet NGVD)	Comments
T1-B	9/16/1998	1287.95	11.12	6.78	ND	ND	1281.17	
T1-B	2/8/2002	1287.95	11.12	5.51	ND	ND	1282.44	no sheen, no odor
T1-B	5/17/2002	1287.95	11.12	3.30	ND	ND	1284.65	slight sheen, slight petroleum-like odor
T1-B	11/13/2002	1287.95	11.12	4.20	ND	ND	1283.75	no sheen, no odor
T1-B	5/7/2003	1287.95	11.12	2.59	ND	ND	1285.36	no sheen, no odor
T1-B	11/25/2003	1287.95	11.12	3.42	ND	ND	1284.53	no sheen, no odor
T1-B	4/27/2004	1287.95	11.12	1.77	ND	ND	1286.18	no sheen, no odor, rust on probe
T1-B	8/13/2004	1287.95	11.12	5.39	ND	ND	1282.56	no sheen, strong odor
T1-B	9/23/2004	1287.95	11.12	4.21	ND	ND	1283.74	sheen and odor
T1-B	10/6/2004	1287.95	11.12	4.21	4.20	0.01	1283.74	
T1-B	10/6/2004	1287.95	11.12	4.98	ND	ND	1282.97	sheen detected after EFR
T1-B	10/15/2004	1287.95	11.12	4.51	ND	ND	1283.44	
T1-B	11/4/2004	1287.95	11.12	4.32	ND	ND	1283.63	
T1-B	11/4/2004	1287.95	11.12	5.61	ND	ND	1282.34	after EFR event
T1-B	11/23/2004	1287.95	11.12	4.40	ND	ND	1283.55	no sheen, no odor
T1-B	3/29/2005	1287.71	11.12	2.06	ND	ND	1285.65	no sheen, odor
T1-B	4/29/2005	1287.71	11.12	2.38	ND	ND	1285.33	
T1-B	5/31/2005	1287.71	11.12	2.84	ND	ND	1284.87	
T1-B	6/22/2005	1287.71	11.12	3.55	ND	ND	1284.16	
T1-B	7/20/2005	1287.71	11.12	3.20	ND	ND	1284.51	
T1-B	8/18/2005	1287.71	11.12	4.70	ND	ND	1283.01	
T1-B	9/16/2005	1287.71	11.12	6.19	ND	ND	1281.52	
T1-B	10/18/2005	1287.71	11.12	3.37	ND	ND	1284.34	
T1-B	11/29/2005	1287.71	11.12	2.79	ND	ND	1284.92	
T1-B	12/23/2005	1287.71	11.12	3.96	ND	ND	1283.75	
T1-B	1/17/2006	1287.71	11.12	2.61	ND	ND	1285.10	
T1-B	2/17/2006	1287.71	11.12	2.93	ND	ND	1284.78	
T1-B	3/31/2006	1287.71	11.12	3.35	ND	ND	1284.36	
T1-B	4/14/2006	1287.71	11.12	3.14	ND	ND	1284.57	
T1-B	5/25/2006	1287.71	11.12	2.55	ND	ND	1285.16	
T1-B	6/30/2006	1287.71	11.12	2.62	ND	ND	1285.09	
T1-B	7/31/2006	1287.71	11.12	3.67	ND	ND	1284.04	
T1-B	8/31/2006	1287.71	11.12	4.61	ND	ND	1283.10	
T1-B	9/29/2006	1287.71	11.12	5.34	ND	ND	1282.37	
T1-B	10/19/2006	1287.71	11.12	4.31	ND	ND	1283.40	
T1-B	11/30/2006	1287.71	11.12	3.40	ND	ND	1284.31	
T1-B	1/17/2007	1287.71	11.12	3.28	ND	ND	1284.43	
T1-B	2/28/2007	1287.71	11.12	4.56	ND	ND	1283.15	
T1-B	3/22/2007	1287.71	11.12	3.50	ND	ND	1284.21	no sheen, strong odor
T1-B	4/11/2007	1287.71	11.12	2.91	ND	ND	1284.80	
T1-B	5/16/2007	1287.71	11.20	2.52	ND	ND	1285.19	no sheen, strong odor
T1-B	6/15/2007	1287.71	11.20	3.54	ND	ND	1284.17	no sheen, odor
T1-B	7/12/2007	1287.71	11.20	4.61	ND	ND	1283.10	no sheen, strong odor.
T1-B	8/15/2007	1287.71	11.20	5.74	ND	ND	1281.97	no sheen, odor.
T1-B	9/15/2007	1287.71	11.20	7.21	ND	ND	1280.50	no sheen, odor.
T1-B	10/8/2007	1287.71	11.20	8.05	ND	ND	1279.66	no sheen, strong odor.
T1-B	11/20/2007	1287.71	11.20	5.92	ND	ND	1281.79	
T1-B	12/14/2007	1287.71	11.20	5.61	ND	ND	1282.10	no sheen, odor.
T1-B	1/17/2008	1287.71	11.20	3.68	ND	ND	1284.03	no sheen, odor.
T1-B	2/15/2008	1287.71	11.20	2.96	ND	ND	1284.75	no sheen, slight odor
T1-B	3/14/2008	1287.71	11.20	2.76	ND	ND	1284.95	no sheen, no odor
T1-B	4/19/2008	1287.71	11.20	2.71	ND	ND	1285.00	no sheen, odor.
T1-B	4/7/2009	1287.71	11.20	1.56	ND	ND	1286.15	no sheen, no odor
T1-B	4/29/2010	1287.71	11.20	2.69	ND	ND	1285.02	no sheen, no odor
T1-B	4/13/2011	1287.71	11.20	1.72	ND	ND	1285.99	no sheen, no odor
T1-B	4/25/2012	1287.71	11.20	2.49	ND	ND	1285.22	slight sheen, slight odor
T1-B	4/30/2013	1287.71	11.20	2.87	ND	ND	1284.84	slight sheen, slight odor
T1-B	4/30/2014	1287.71	11.20	1.70	ND	ND	1286.01	
T1-B	4/30/2015	1287.71	11.20	2.21	ND	ND	1285.50	no sheen, no odor
T1-B	4/21/2016	1287.71	11.20	2.60	ND	ND	1285.11	no sheen, no odor
T1-B	4/24/2017	1287.71	11.05	2.35	ND	ND	1285.36	no sheen, no odor
T1-B	4/19/2018	1287.71	10.99	1.63	ND	ND	1286.08	no sheen, no odor
T1-B	4/18/2019	1287.71	10.88	1.65	ND	ND	1286.06	slight sheen

Table 1
Well Gauging Data
Former C.R. Bard Facility, Fitzwilliam, NH
NHDES # 198905021

Well ID	Gauging Date	PVC Elevation (feet NGVD)	DTB (feet)	DTW (feet)	DTNAPL (feet)	NAPL Thickness (feet)	Groundwater Elevation (feet NGVD)	Comments
TDS-3	5/7/2003	1284.27	7.98	3.09	ND	ND	1281.18	no sheen, no odor
TDS-3	11/25/2003	1284.27	7.98	2.95	ND	ND	1281.32	no sheen, no odor
TDS-3	12/5/2003	1284.27	7.98	3.12	ND	ND	1281.15	
TDS-3	4/27/2004	1284.27	7.98	2.65	ND	ND	1281.62	no sheen, no odor
TDS-3	6/23/2004	1284.27	7.98	3.39	ND	ND	1280.88	rust on probe, no odor
TDS-3	8/13/2004	1284.27	7.98	ND	ND	ND		well is dry
TDS-3	9/23/2004	1284.27	7.98	3.22	ND	ND	1281.05	no sheen, no odor
TDS-3	10/6/2004	1284.27	7.98	3.36	ND	ND	1280.91	
TDS-3	10/15/2004	1284.27	7.98	3.43	ND	ND	1280.84	
TDS-3	11/4/2004	1284.27	7.98	3.73	ND	ND	1280.54	
TDS-3	11/23/2004	1284.27	7.98	3.41	ND	ND	1280.86	no sheen, no odor, rust
TDS-3	3/29/2005	1284.27	7.98	2.61	ND	ND	1281.66	rust
TDS-3	4/29/2005	1284.27	7.98	3.08	ND	ND	1281.19	
TDS-3	5/31/2005	1284.27	7.98	3.08	ND	ND	1281.19	
TDS-3	6/22/2005	1284.27	7.98	3.40	ND	ND	1280.87	
TDS-3	7/20/2005	1284.27	7.98	3.04	ND	ND	1281.23	
TDS-3	8/18/2005	1284.27	7.98	3.71	ND	ND	1280.56	
TDS-3	9/16/2005	1284.27	7.98	4.75	ND	ND	1279.52	
TDS-3	10/18/2005	1284.27	7.98	3.44	ND	ND	1280.83	
TDS-3	11/29/2005	1284.27	7.98	3.32	ND	ND	1280.95	
TDS-3	12/23/2005	1284.27	7.98	3.60	ND	ND	1280.67	
TDS-3	1/17/2006	1284.27	7.98	3.31	ND	ND	1280.96	
TDS-3	2/17/2006	1284.27	7.98	3.43	ND	ND	1280.84	
TDS-3	3/31/2006	1284.27	7.98	3.81	ND	ND	1280.46	
TDS-3	4/14/2006	1284.27	7.98	3.63	ND	ND	1280.64	
TDS-3	5/25/2006	1284.27	7.98	3.40	ND	ND	1280.87	
TDS-3	6/30/2006	1284.27	7.98	3.26	ND	ND	1281.01	
TDS-3	7/31/2006	1284.27	7.98	3.65	ND	ND	1280.62	
TDS-3	8/31/2006	1284.27	7.98	3.68	ND	ND	1280.59	
TDS-3	9/29/2006	1284.27	7.98	3.71	ND	ND	1280.56	
TDS-3	10/19/2006	1284.27	7.98	3.42	ND	ND	1280.85	
TDS-3	11/30/2006	1284.27	7.98	3.50	ND	ND	1280.77	
TDS-3	1/17/2007	1284.27	7.98	3.48	ND	ND	1280.79	
TDS-3	2/28/2007	1284.27	7.98	3.38	ND	ND	1280.89	
TDS-3	3/22/2007	1284.27	7.98	3.37	ND	ND	1280.9	no sheen, slight odor
TDS-3	4/11/2007	1284.27	7.98	3.52	ND	ND	1280.75	no sheen, no odor
TDS-3	5/16/2007	1284.27	8.03	3.62	ND	ND	1280.65	no sheen, no odor
TDS-3	6/15/2007	1284.27	8.03	3.77	ND	ND	1280.50	slight sheen, slight odor
TDS-3	7/12/2007	1284.27	8.03	3.81	ND	ND	1280.46	slight odor, no sheen.
TDS-3	8/15/2007	1284.27	8.03	4.78	ND	ND	1279.49	spots of rusty substance, slight odor.
TDS-3	9/15/2007	1284.27	8.03	5.04	ND	ND	1279.23	spots of rusty substance, slight odor.
TDS-3	10/8/2007	1284.27	8.03	6.06	ND	ND	1278.21	slight spotty sheen, slight odor.
TDS-3	11/20/2007	1284.27	8.03	4.25	ND	ND	1280.02	
TDS-3	12/14/2007	1284.27	8.03	4.04	ND	ND	1280.23	no sheen, slight odor.
TDS-3	1/17/2008	1284.27	8.03	3.73	ND	ND	1280.54	no sheen, no odor
TDS-3	2/15/2008	1284.27	8.03	3.58	ND	ND	1280.69	no sheen, no odor
TDS-3	3/14/2008	1284.27	8.03	3.59	ND	ND	1280.68	no sheen, slight odor.
TDS-3	4/19/2008	1284.27	8.03	3.86	ND	ND	1280.41	no sheen, no odor
TDS-3	4/7/2009	1284.27	8.03	3.38	ND	ND	1280.89	no sheen, no odor
TDS-3	4/29/2010	1284.27	8.03	3.37	ND	ND	1280.9	no sheen, no odor
TDS-3	4/13/2011	1284.27	8.03	3.29	ND	ND	1280.98	slight sheen, slight odor
TDS-3	4/25/2012	1284.27	7.99	3.80	ND	ND	1280.47	no sheen, no odor
TDS-3	4/30/2013	1284.27	7.99	3.65	ND	ND	1280.62	no sheen, no odor
TDS-3	4/30/2014	1284.27	7.99	3.30	ND	ND	1280.97	
TDS-3	4/30/2015	1284.27	7.99	3.36	ND	ND	1280.91	no sheen, no odor
TDS-3	4/21/2016	1284.27	7.99	3.61	ND	ND	1280.66	no sheen, no odor
TDS-3	4/24/2017	1284.27	8.04	3.91	ND	ND	1280.36	no sheen, no odor
TDS-3	4/19/2018	1284.27	7.99	3.42	ND	ND	1280.85	no sheen, no odor
TDS-3	4/18/2019	1284.27	7.95	3.49	ND	ND	1280.78	no sheen, no odor

Notes:

Elevations were measured relative to the National Geodetic Vertical Datum.

PVC = top of PVC casing of monitoring well.

DTB = depth to bottom of well.

DTW = depth to water.

DTNAPL = depth to non-aqueous phase liquid.

ND = not detected.

NAPL = non-aqueous phase liquid.

Prepared by John Rice 5/22/2019

Checked by Shawna Iacozzi 5/22/2019

ATTACHMENT 2

**Groundwater Analytical Results Tables
and
Naphthalene Plots (2002-2019)**

Table 2
Well TDS-1
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1
	Date Sampled	2/8/2002	5/17/2002	11/13/2002	5/7/2003	11/25/2003	4/27/2004	11/23/2004	4/29/2005	11/29/2005	4/14/2006	11/30/2006	4/11/2007
Analyte (ug/L) ⁽¹⁾	AGQS ⁽²⁾ (ug/L)												
Volatile Organic Compounds (VOC) (Method 8260B)													
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	19	10	8	1	9	6	3	3	NA	NA	NA	NA
1,2,4 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	-	-	-	2	6	2	4
1,3,5 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	-	-	-	<1	<1	<1	<1
n-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	<1	<1	<1	<1
n-propylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	<1	1	<1	<1
p-isopropyltoluene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	<1	<1	<1	<1
sec-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	<1	<1	<1	<1
tert-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	<1	<1	<1	<1
iso-propylbenzene	800	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	5	3	2	1	<1	1	<1	<1	<1	<1	<1	<1	<1
Toluene	1,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	1	<1	<1	<1	<1	1	<1	<1
Xylenes (mixed isomers)	10,000	2	1	1	<1	<1	1	<1	<1	<1	<1	<1	<1
Methyl-tertiary-butyl ether (MtBE)	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene ⁽⁶⁾	20 / 100	10	9	8	<5	14	7	6	6	<5	<1	<5	<5
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)													
Acenaphthene	420	1	1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	2	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	3	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	2	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	2	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	2	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	3	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	1	3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	2	10	7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	4	9	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	2	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	2	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:

NA = Not Analyzed

(1) Concentrations reported in micrograms per liter (ug/L)

(2) AGQS = New Hampshire's Ambient Groundwater Quality Standards Oil and Remediation Rules Env-Wm 1403 (February 24, 1999) and Env-Wm 1403.05 (September 22, 2005). Concentrations in shaded boxes exceed AGQS in effect at that time.

(3) Alkylbenzenes are comprised of the following seven compounds: 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, n-propyl benzene, n-butyl benzene, p-isopropyl toluene, tert-butyl benzene and sec-butyl benzene.

(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.

(5) Constituent of Alkylbenzene value.

(6) TDS-3 installed in May 2003.

(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.

(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 2
Well TDS-1
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1	TDS-1
	Date Sampled	11/20/2007	4/19/2008	4/7/2009	4/29/2010	4/13/2011	4/25/2012	4/30/2013	4/30/2014	4/30/2015	4/21/2016	4/24/2017	4/11/2018
Analyte (ug/L) ⁽¹⁾	AGQS ⁽²⁾ (ug/L)												
Volatile Organic Compounds (VOC) (Method 8260B)													
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4 trimethylbenzene ⁽⁵⁾	330	6	<1	1	1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5 trimethylbenzene ⁽⁵⁾	330	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
p-isopropyltoluene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-butylbenzene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-butylbenzene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
iso-propylbenzene	800	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	5	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes (mixed isomers)	10,000	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl-tertiary-butyl ether (MTBE)	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene ⁽⁶⁾	20 / 100	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)													
Acenaphthene	420	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:

NA = Not Analyzed

(1) Concentrations reported in micrograms per liter (ug/L)

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(3) Alkylbenzenes are comprised of the following seven compounds: 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, n-propyl benzene, n-butyl benzene, p-isopropyl toluene, tert-butyl benzene and sec-butyl benzene.

(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.

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(6) TDS-3 installed in May 2003.

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(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 3
Well TDS-2
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	TDS-2	TDS-2	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2	TDS-2 (DUP)
	Date Sampled	2/8/2002	5/17/2002	11/13/2002	11/13/2002	5/7/2003	11/25/2003	11/25/2003	4/27/2004	4/27/2004	11/23/2004	4/29/2005	4/29/2005
Analyte (ug/L) ⁽¹⁾	AGQS ⁽²⁾ (ug/L)												
Volatile Organic Compounds (VOC) (Method 8260B)													
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	63	200	51	48	115	74	69	116	126	158	140	142
1,2,4 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	-	-	-	-	-	-	-
n-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	-	-
n-propylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	-	-
p-isopropyltoluene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	-	-
sec-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	-	-
tert-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	-	-
Iso-propylbenzene	800	3	8	2	2	8	4	4	5	6	7	9	8
Benzene	5	2	5	3	3	2	3	3	<1	1	2	1	1
Toluene	1,000	1	4	2	1	1	1	1	<1	<1	2	<1	<1
Ethylbenzene	700	9	30	9	8	19	15	14	12	14	22	10	10
Xylenes (mixed isomers)	10,000	12	57	13	11	21	16	15	23	25	38	10	9
Methyl-tertiary-butyl ether (MtBE)	13	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene ⁽⁶⁾	20 / 100	45	150	60	54	100	84	59	88	89	160	80	78
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)													
Acenaphthene	420	4	2	3	3	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	2	1	2	2	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	4	3	3	4	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	64	24	32	33	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	39	25	27	28	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	7	3	3	3	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	1	<1	1	1	NA	NA	NA	NA	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:

NA = Not Analyzed

(1) Concentrations reported in micrograms per liter (ug/L)

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(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.

(5) Constituent of Alkylbenzene value.

(6) TDS-3 installed in May 2003.

(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.

(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 3
Well TDS-2
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2 (DUP)
	Date Sampled	11/29/2005	11/29/2005	4/14/2006	4/14/2006	11/30/2006	11/30/2006	4/11/2007	11/20/2007	4/19/2008	4/19/2008	4/7/2009	4/7/2009
Analyte (ug/L) ⁽¹⁾	AGQS ⁽²⁾ (ug/L)												
Volatile Organic Compounds (VOC) (Method 8260B)													
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4 trimethylbenzene ⁽⁵⁾	330	31	30	85	74	18	18	45	31	53	53	36	35
1,3,5 trimethylbenzene ⁽⁵⁾	330	10	11	14	12	2	2	3	3	2	2	2	2
n-butylbenzene ⁽⁵⁾	260	<1	<1	10	9	3	3	4	6	3	3	3	3
n-propylbenzene ⁽⁵⁾	260	5	5	14	15	3	3	8	4	6	6	4	4
p-isopropyltoluene ⁽⁵⁾	260	4	4	8	7	1	1	4	3	5	5	4	3
sec-butylbenzene ⁽⁵⁾	260	3	3	6	6	2	2	4	4	3	3	2	2
tert-butylbenzene ⁽⁵⁾	260	<1	<1	1	1	<1	<1	1	1	<1	<1	<1	<1
Iso-propylbenzene	800	3	3	8	8	2	2	4	2	4	4	3	2
Benzene	5	1	1	1	1	2	1	2	1	1	1	2	2
Toluene	1,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2
Ethylbenzene	700	5	5	10	9	4	4	5	3	5	5	3	3
Xylenes (mixed isomers)	10,000	5	6	8	8	4	4	6	4	7	7	6	6
Methyl-tertiary-butyl ether (MtBE)	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene ⁽⁶⁾	20 / 100	29	30	59	48	14	12	27	24	34	34	25	25
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)													
Acenaphthene	420	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:

NA = Not Analyzed

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(3) Alkylbenzenes are comprised of the following seven compounds: 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, n-propyl benzene, n-butyl benzene, p-isopropyl toluene, tert-butyl benzene and sec-butyl benzene.

(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.

(5) Constituent of Alkylbenzene value.

(6) TDS-3 installed in May 2003.

(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.

(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 3
Well TDS-2
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2 (DUP)	TDS-2	TDS-2 (DUP)
	Date Sampled	4/29/2010	4/29/2010	4/13/2011	4/13/2011	4/25/2012	4/25/2012	4/30/2013	4/30/2013	4/30/2014	4/30/2014	4/30/2015	4/30/2015
Analyte (ug/L) ⁽¹⁾	AGQS ⁽²⁾ (ug/L)												
Volatile Organic Compounds (VOC) (Method 8260B)													
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4 trimethylbenzene ⁽⁵⁾	330	18	19	9	8	13	12	50	51	71	69	55	56
1,3,5 trimethylbenzene ⁽⁵⁾	330	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene ⁽⁵⁾	260	2 J	2 J	1	<1	2	2	3	3	4	4	4	4
n-propylbenzene ⁽⁵⁾	260	2	2	<1	<1	3	3	8	8	11	11	9	9
p-isopropyltoluene ⁽⁵⁾	260	1	1	2	2	<1	<1	3	3	4	4	3	3
sec-butylbenzene ⁽⁵⁾	260	1	1	<1	<1	2	2	3	3	4	4	4	3
tert-butylbenzene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iso-propylbenzene	800	1	1	<1	<1	2	2	6	6	7	7	5	5
Benzene	5	3	3	1	1	2	1	2	2	2	2	1	1
Toluene	1,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	6	6	1	<1	2	1	10	10	6	7	4	5
Xylenes (mixed isomers)	10,000	7	7	2	2	<1	<1	14	14	11	11	8	9
Methyl-tertiary-butyl ether (MtBE)	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene ⁽⁶⁾	20 / 100	21	19	10	9	9	8	70	69	73	73	48	48
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)													
Acenaphthene	420	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:

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(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.

(5) Constituent of Alkylbenzene value.

(6) TDS-3 installed in May 2003.

(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.

(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 3
Well TDS-2
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	TDS-2	TDS-2	TDS-2	TDS-2
	Date Sampled	4/21/2016	4/24/2017	4/11/2018	4/18/2019
Analyte (ug/L) ⁽¹⁾	AGQS ⁽²⁾ (ug/L)				
Volatile Organic Compounds (VOC) (Method 8260B)					
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	NA	NA	NA	NA
1,2,4 trimethylbenzene ⁽⁵⁾	330	61	53	44	38
1,3,5 trimethylbenzene ⁽⁵⁾	330	<1	<1	<1	7.6
n-butylbenzene ⁽⁵⁾	260	3 J	2	2.5	1.5
n-propylbenzene ⁽⁵⁾	260	6	3	4.1	2.7
p-isopropyltoluene ⁽⁵⁾	260	3	3	2.7	1.5
sec-butylbenzene ⁽⁵⁾	260	2	1	1.8	1.2
tert-butylbenzene ⁽⁵⁾	260	<1	<1	<1	<1
Iso-propylbenzene	800	4	2	2.7	1.8
Benzene	5	2	3	1.9	1.4
Toluene	1,000	<1	<1	<1	<1
Ethylbenzene	700	13	5	3.9	9.9
Xylenes (mixed isomers)	10,000	22	14	6.8	12.3
Methyl-tertiary-butyl ether (MtBE)	13	<5	<1	<1	<1
Naphthalene ⁽⁶⁾	20 / 100	90	79	46	67
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)					
Acenaphthene	420	NA	NA	NA	NA
Anthracene	2,100	NA	NA	NA	NA
Benzo(a)anthracene	0.05	NA	NA	NA	NA
Benzo(a)pyrene	0.2	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA	NA
Chrysene	5	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	NA	NA	NA	NA
2-Methylnaphthalene	280	NA	NA	NA	NA
Naphthalene	20	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:

NA = Not Analyzed

(1) Concentrations reported in micrograms per liter (ug/L)

(2) AGQS refers to New Hampshire's Ambient Groundwater Quality Standards Oil and Remediation Rules Env-Wm 1403 (February 24, 1999) and Env-Wm 1403.05 (September 22, 2005). Concentrations in shaded boxes exceed AGQS in effect at that time.

(3) Alkylbenzenes are comprised of the following seven compounds: 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, n-propyl benzene, n-butyl benzene, p-isopropyl toluene, tert-butyl benzene and sec-butyl benzene.

(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.

(5) Constituent of Alkylbenzene value.

(6) TDS-3 installed in May 2003.

(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.

(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 4
Well TDS-3
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID Date Sampled	TDS-3 ⁽⁶⁾	TDS-3	TDS-3	TDS-3	TDS-3	TDS-3	TDS-3	TDS-3	TDS-3	TDS-3 (DUP)	TDS-3	TDS-3	TDS-3	TDS-3	TDS-3	TDS-3	
	AGQS ⁽²⁾ (ug/L)	5/7/2003	11/25/2003	4/27/2004	11/23/2004	4/29/2005	11/29/2005	4/14/2006	11/30/2006	4/11/2007	4/11/2007	11/20/2007	4/19/2008	4/7/2009	4/29/2010	4/13/2011	4/25/2012	4/30/2013
Analyte (ug/L) ⁽¹⁾																		
Volatile Organic Compounds (VOC) (Method 8260B)																		
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	4	1	11	2	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,4 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,3,5 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
n-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	<1	1	1	1	1	<1	1	<1	<1	1	<1	
n-propylbenzene ⁽⁵⁾	260	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
p-isopropyltoluene ⁽⁵⁾	260	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
sec-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	2	3	2	3	3	1	3	2	3	3	1	
tert-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Iso-propylbenzene	800	1	<1	3	<1	1	<1	<1	<1	<1	<1	<1	1	<1	<1	1	<1	
Benzene	5	1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	
Toluene	1,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Ethylbenzene	700	1	<1	4	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Xylenes (mixed isomers)	10,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	
Methyl-tertiary-butyl ether (MtBE)	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Naphthalene ⁽⁶⁾	20 / 100	<5	<5	11	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)																		
Acenaphthene	420	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Anthracene	2,100	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(a)anthracene	0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(a)pyrene	0.2	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(b)fluoranthene	0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(g,h,i)perylene	210	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(k)fluoranthene	0.5	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chrysene	5	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fluoranthene	280	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fluorene	280	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Indeno(1,2,3-cd)pyrene	0.05	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylnaphthalene	280	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Naphthalene	20	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phenanthrene	210	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pyrene	210	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:
NA = Not Analyzed
(1) Concentrations reported in micrograms per liter (ug/L)
(2) AGQS refers to New Hampshire's Ambient Groundwater Quality Standards Oil and Remediation Rules Env-Wm 1403 (February 24, 1999) and Env-Wm 1403.05 (September 22, 2005). Concentrations in shaded boxes exceed AGQS in effect at that time.
(3) Alkylbenzenes are comprised of the following seven compounds: 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, n-propyl benzene, n-butyl benzene, p-isopropyl toluene, tert-butyl benzene and sec-butyl benzene.
(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.
(5) Constituent of Alkylbenzene value.
(6) TDS-3 installed in May 2003.
(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.
(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 4
Well TDS-3
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	TDS-3	TDS-3	TDS-3	DUP (TDS-3)	TDS-3	DUP (TDS-3)	TDS-3	DUP (TDS-3)	TDS-3	DUP (TDS-3)
	Date Sampled	4/30/2014	4/30/2015	4/21/2016	4/21/2016	4/24/2017	4/24/2017	4/11/2018	4/11/2018	4/18/2019	4/18/2019
Analyte (ug/L) ⁽¹⁾	AGQS ⁽²⁾ (ug/L)										
Volatile Organic Compounds (VOC) (Method 8260B)											
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4 trimethylbenzene ⁽⁵⁾	330	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5 trimethylbenzene ⁽⁵⁾	330	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
p-isopropyltoluene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-butylbenzene ⁽⁵⁾	260	2	2	2	2	2	2	1.7	1.7	2.1	2.3
tert-butylbenzene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iso-propylbenzene	800	1	1	<1	<1	1	1	<1	<1	<1	<1
Benzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes (mixed isomers)	10,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl-tertiary-butyl ether (MtBE)	13	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1
Naphthalene ⁽⁶⁾	20 / 100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)											
Acenaphthene	420	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Prepard by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:
NA = Not Analyzed
(1) Concentrations reported in micrograms per liter (ug/L)
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(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.
(5) Constituent of Alkylbenzene value.
(6) TDS-3 installed in May 2003.
(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.
(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 5
Well FT-1
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	FT-1	FT-1 (DUP)	FT-1	FT-1 (DUP)	FT-1	FT-1 ⁽⁷⁾	FT-1	FT-1	FT-1	FT-1	FT-1	FT-1
	Date Sampled	2/8/2002	2/8/2002	5/17/2002	5/17/2002	11/13/2002	11/25/2003	4/27/2004	11/23/2004	4/29/2005	11/29/2005	4/14/2006	11/30/2006
Analyte (ug/L) ⁽¹⁾	AGQS ⁽²⁾ (ug/L)												
Volatile Organic Compounds (VOC) (Method 8260B)													
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	6	5	36	33	11	4	8	6	4	NA	NA	N/A
1,2,4 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	-	-	-	-	6	2	9
1,3,5 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	-	-	-	-	1	<1	<1
n-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	<1	1	<1
n-propylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	<1	<1	1
p-isopropyltoluene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	<1	<1	<1
sec-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	2	2	2
tert-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	<1	<1	<1
iso-propylbenzene	800	<1	<1	1	<1	<1	<1	2	<1	1	<1	<1	<1
Benzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
Xylenes (mixed isomers)	10,000	<1	<1	2	2	<1	<1	<1	<1	<1	<1	<1	<1
Methyl-tertiary-butyl ether (MTBE)	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene ⁽⁶⁾	20 / 100	<5	<5	17	14	12	13	7	<5	<5	6	<5	6
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)													
Acenaphthene	420	2	7	3	3	3	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	2	7	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	5	11	2	2	3	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	3	11	4	4	5	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	4	30	1	1	12	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	3	12	3	3	9	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	4	19	2	2	4	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	2	8	1	1	2	NA	NA	NA	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:

NA = Not Analyzed

(1) Concentrations reported in micrograms per liter (ug/L)

(2) AGQS refers to New Hampshire's Ambient Groundwater Quality Standards Oil and Remediation Rules Env-Wm 1403 (February 24, 1999) and Env-Wm 1403.05 (September 22, 2005). Concentrations in shaded boxes exceed AGQS in effect at that time.

(3) Alkylbenzenes are comprised of the following seven compounds: 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, n-propyl benzene, n-butyl benzene, p-isopropyl toluene, tert-butyl benzene and sec-butyl benzene.

(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.

(5) Constituent of Alkylbenzene value.

(6) TDS-3 installed in May 2003.

(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.

(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 5
Well FT-1
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	FT-1	FT-1	FT-1 (Dup)	FT-1	FT-1	FT-1	FT-1	FT-1	FT-1	FT-1	FT-1	FT-1	FT-1	FT-1	FT-1
	Date Sampled	4/11/2007	11/20/2007	11/20/2007	4/19/2008	4/7/2009	4/29/2010	4/13/2011	4/25/2012	4/30/2013	4/30/2014	4/30/2015	4/21/2016	4/24/2017	4/19/2018	4/18/2019
Analyte (ug/L) ⁽¹⁾	AGQS ⁽²⁾ (ug/L)															
Volatile Organic Compounds (VOC) (Method 8260B)																
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	NA	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4 trimethylbenzene ⁽⁵⁾	330	6	3	3	2	1	1	3	2	1	2	1	3	1	1	1
1,3,5 trimethylbenzene ⁽⁵⁾	330	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene ⁽⁵⁾	260	1	1	1	1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene ⁽⁵⁾	260	1	<1	<1	2	<1	<1	1	<1	1	<1	<1	<1	<1	<1	<1
p-isopropyltoluene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-butylbenzene ⁽⁵⁾	260	2	1	1	2	1	2	2	1	1	<1	1	<1	<1	<1	<1
tert-butylbenzene ⁽⁵⁾	260	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iso-propylbenzene	800	2	<1	<1	2	<1	<1	1	<1	1	<1	<1	<1	<1	<1	<1
Benzene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes (mixed isomers)	10,000	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl-tertiary-butyl ether (MTBE)	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1
Naphthalene ⁽⁶⁾	20 / 100	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	8	<5	<5	<5
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)																
Acenaphthene	420	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:

NA = Not Analyzed

(1) Concentrations reported in micrograms per liter (ug/L)

(2) AGQS refers to New Hampshire's Ambient Groundwater Quality Standards Oil and Remediation Rules Env-Wm 1403 (February 24, 1999) and Env-Wm 1403.05 (September 22, 2005). Concentrations in shaded boxes exceed AGQS in effect at that time.

(3) Alkylbenzenes are comprised of the following seven compounds: 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, n-propyl benzene, n-butyl benzene, p-isopropyl toluene, tert-butyl benzene and sec-butyl benzene.

(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.

(5) Constituent of Alkylbenzene value.

(6) TDS-3 installed in May 2003.

(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.

(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Table 6
Well T1-B
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	T1-B	T1-B	T1-B	T1-B	T1-B (DUP)	T1-B	T1-B	T1-B	T1-B (DUP)	T1-B	T1-B	T1-B	T1-B
Analyte (ug/L) ⁽³⁾	Date Sampled AGQS ⁽²⁾ (ug/L)	2/8/2002	5/17/2002	11/13/2002	5/7/2003	5/7/2003	11/25/2003	4/27/2004	11/23/2004	11/23/2004	4/29/2005	11/29/2005	4/14/2006	11/30/2006
Volatile Organic Compounds (VOC) (Method 8260B)														
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	510	124	209	248	233	326	8	376	343	358	NA	NA	NA
1,2,4 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	-	-	-	-	-	260	240	240
1,3,5 trimethylbenzene ⁽⁵⁾	330	-	-	-	-	-	-	-	-	-	-	32	39	17
n-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	12	14	11
n-propylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	29	27	26
p-isopropyltoluene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	7	8	7
sec-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	6	6	6
tert-butylbenzene ⁽⁵⁾	260	-	-	-	-	-	-	-	-	-	-	<2	<2	<1
Iso-propylbenzene	800	20	4	6	11	11	16	2	17	17	19	16	15	15
Benzene	5	<10	<2	<1	<1	<1	2	<1	<1	<1	<1	<2	<2	<2
Toluene	1,000	<10	<2	<1	1	1	<1	<1	<1	1	<1	<2	<2	<2
Ethylbenzene	700	80	10	26	48	49	63	1	61	58	51	48	42	47
Xylenes (mixed isomers)	10,000	110	16	38	67	65	76	<1	73	73	68	55	61	44
Methyl-tertiary-butyl ether (MTBE)	13	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene ⁽⁶⁾	20 / 100	430	100	260	230	230	280	7	300	400	340	350	330	320
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)														
Acenaphthene	420	17	4	5	2.1	1.8	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	17	<1	<1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	<5	<1	<1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	<5	<1	<1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	<5	<1	<1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	<5	<1	<1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	<5	<1	<1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	<5	<1	<1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	<5	<1	<1	<0.1	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	31	5	7	2.5	2.4	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	<5	<1	<1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	600	98	37	48	43	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	430	120	130	83	68	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	59	3	<1	1.1	1.2	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	7	1	<1	0.3	0.4	NA	NA	NA	NA	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

NOTES:
NA = Not Analyzed
(1) Concentrations reported in micrograms per liter (ug/L)
(2) AGQS refers to New Hampshire's Ambient Groundwater Quality Standards Oil and Remediation Rules Env-Wm 1403 (February 24, 1999) and Env-Wm 1403.05 (September 22, 2005). Concentrations in shaded boxes exceed AGQS in effect at that time.
(3) Alkylbenzenes are comprised of the following seven compounds: 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, n-propyl benzene, n-butyl benzene, p-isopropyl toluene, tert-butyl benzene and sec-butyl benzene.
(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.
(5) Constituent of Alkylbenzene value.
(6) TDS-3 installed in May 2003.
(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.
(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

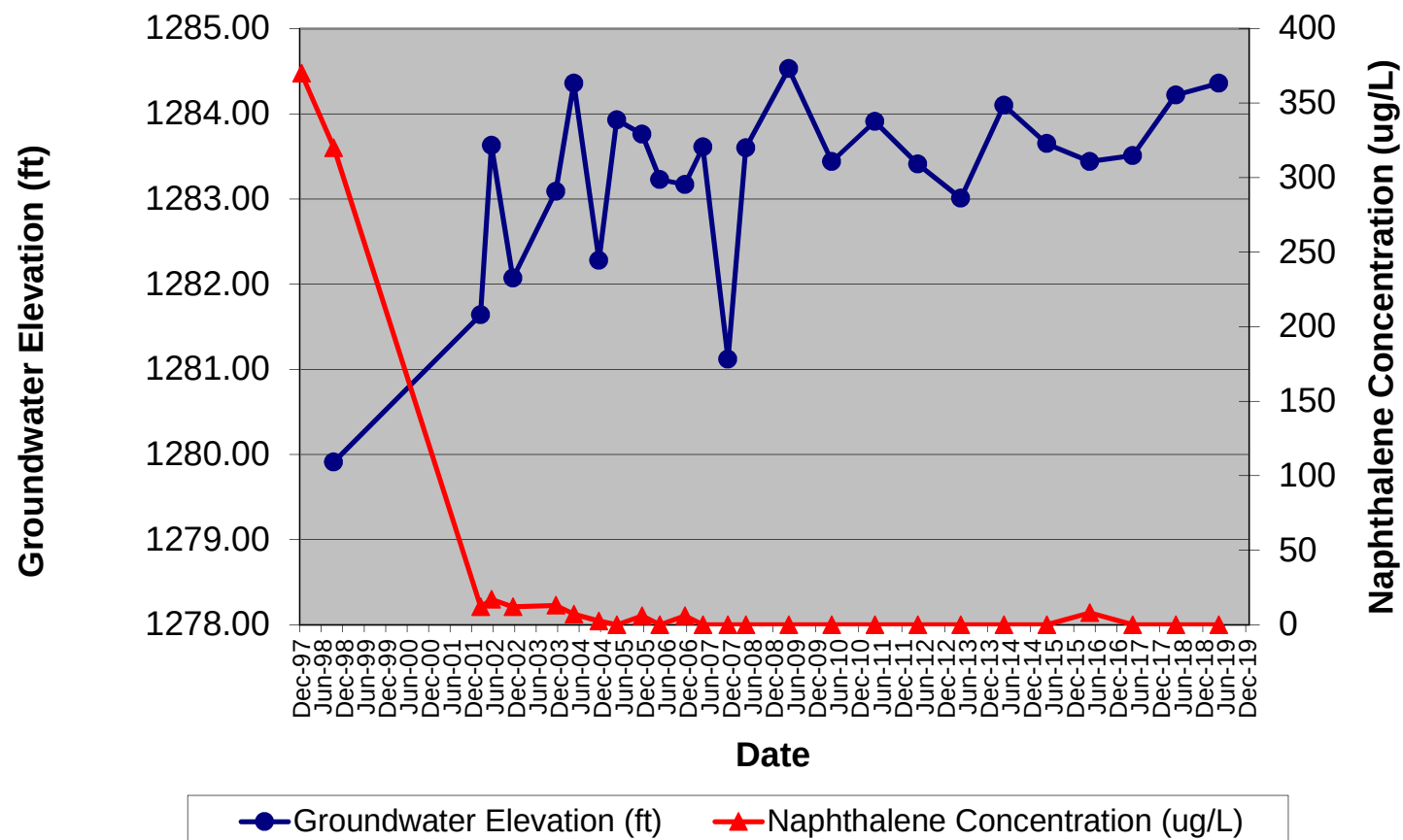
Table 6
Well T1-B
Groundwater Analytical Results (2002 - 2019)
Former C.R. Bard Facility, Fitzwilliam, New Hampshire
NHDES # 198905021

	Well ID	T1-B	T1-B	T1-B	T1-B	T1-B	T1-B	T1-B	T1-B	T1-B	T1-B	T1-B	T1-B	T1-B	T1-B
	Date Sampled	4/11/2007	11/20/2007	4/19/2008	4/7/2009	4/29/2010	4/13/2011	4/25/2012	4/30/2013	4/30/2014	4/30/2015	4/21/2016	4/24/2017	4/19/2018	4/18/2019
Analyte (ug/L) ⁽³⁾	AGQS ⁽²⁾ (ug/L)														
Volatile Organic Compounds (VOC) (Method 8260B)															
Alkylbenzenes ⁽³⁾	NA ⁽⁴⁾	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4 trimethylbenzene ⁽⁵⁾	330	190	270	220	80	180	140	150	150	200	130	210	190	200	200
1,3,5 trimethylbenzene ⁽⁵⁾	330	16	13	5	22	<1	<1	<1	<1	<1	<1	<1	<2	<1	69
n-butylbenzene ⁽⁵⁾	260	6	17	8	3	8 J	10	6	8	10	8	13	10	13	14
n-propylbenzene ⁽⁵⁾	260	24	24	29	5	21	21	17	24	26	18	27	28	29	34
p-isopropyltoluene ⁽⁵⁾	260	7	10	8	5	8	8	6	8	9	7	9	8	9.4	11
sec-butylbenzene ⁽⁵⁾	260	6	7	7	2	5	7	4	6	8	6	8	8	8.7	10
tert-butylbenzene ⁽⁵⁾	260	<2	<2	<2	<1	1	1	1	1	<2	<1	2	<2	1.6	1.8
Iso-propylbenzene	800	12	14	16	3	11	10	9	14	13	10	15	14	15	17
Benzene	5	<2	<2	<2	<2	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1
Toluene	1,000	<2	<2	<2	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1
Ethylbenzene	700	32	45	47	7	34	14	20	35	30	23	35	34	33	36
Xylenes (mixed isomers)	10,000	36	46	48	11	35	14	24	38	33	27	39	39	36.4	39
Methyl-tertiary-butyl ether (MTBE)	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2	<1	<1
Naphthalene ⁽⁶⁾	20 / 100	240	330	340	79	230	170	180	230	240	160	270	270	210	230
Polycyclic Aromatic Hydrocarbons (PAH) (Method 8270C)															
Acenaphthene	420	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Prepared by John Rice 5/22/2019
Checked by Shawna Iacozzi 5/22/2019

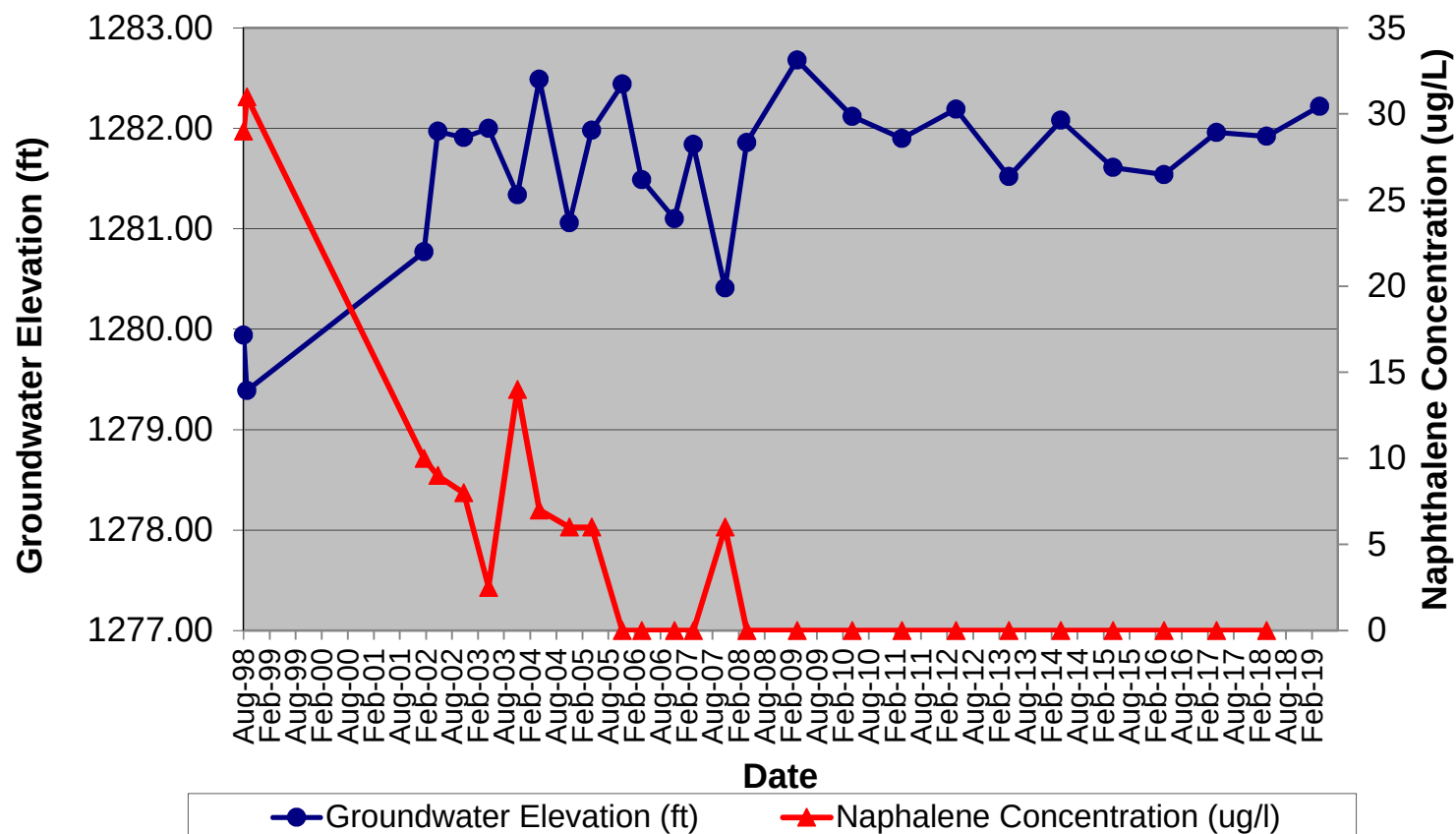
NOTES:
NA = Not Analyzed
(1) Concentrations reported in micrograms per liter (ug/L)
(2) AGQS refers to New Hampshire's Ambient Groundwater Quality Standards Oil and Remediation Rules Env-Wm 1403 (February 24, 1999) and Env-Wm 1403.05 (September 22, 2005). Concentrations in shaded boxes exceed AGQS in effect at that time.
(3) Alkylbenzenes are comprised of the following seven compounds: 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, n-propyl benzene, n-butyl benzene, p-isopropyl toluene, tert-butyl benzene and sec-butyl benzene.
(4) Prior to adoption of Env-Wm 1403.05, AGQS for alkylbenzenes was 50 ug/L.
(5) Constituent of Alkylbenzene value.
(6) TDS-3 installed in May 2003.
(7) FT-1 was not sampled in May 2003 because 0.72 inches of non-aqueous phase liquid was detected.
(8) AGQS for naphthalene changed from 20 ug/L to 100 ug/L in 9/1/2018

Figure 2. Plot of Naphthalene Concentration and Water Level Data Over Time in FT-1



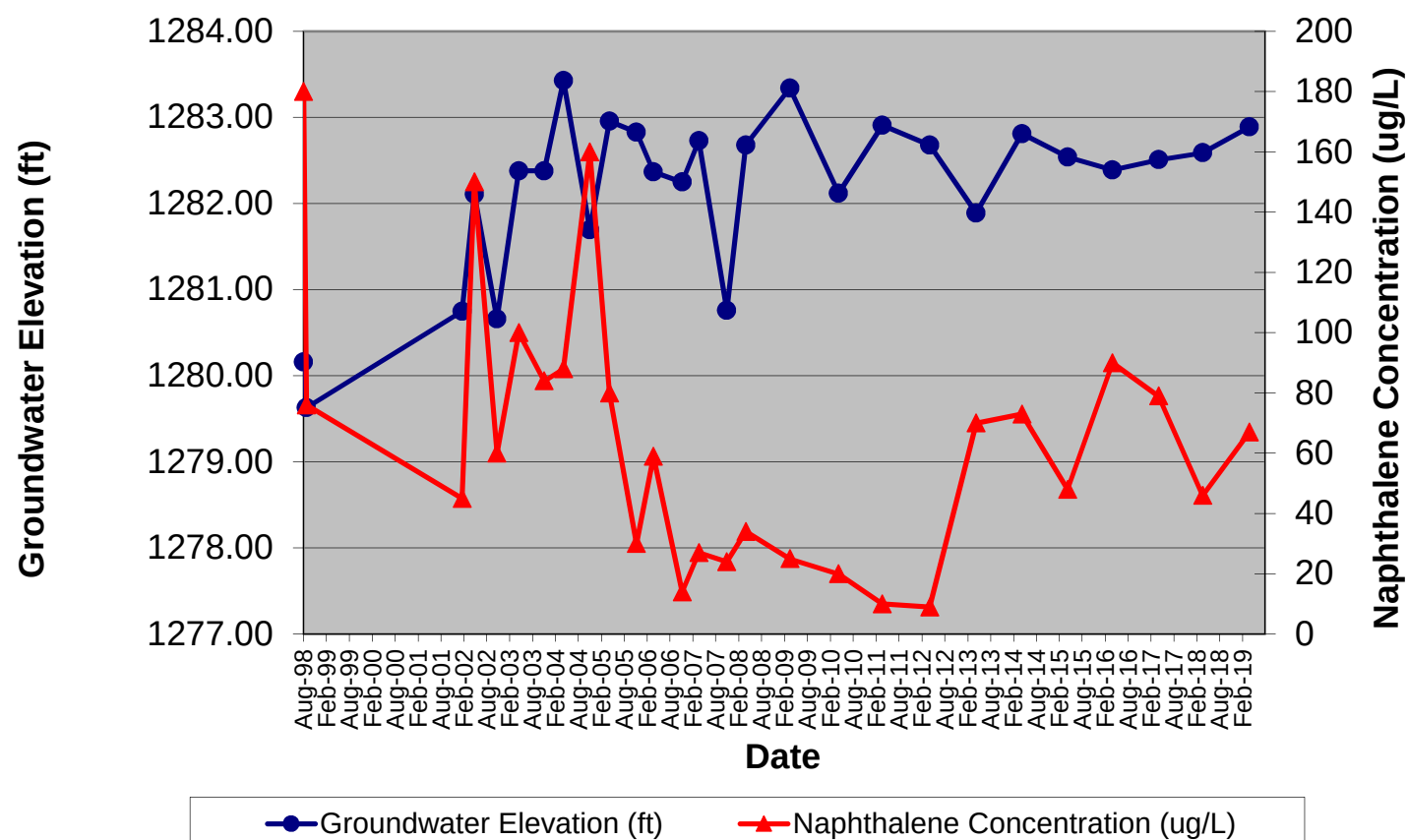
Note: The New Hampshire Ambient Groundwater Quality Standard (AGQS) for naphthalene changed from 20 ug/L to 100 ug/L on 9/1/2018

Figure 3. Plot of Naphthalene Concentration and Water Level Data Over Time in TDS-1



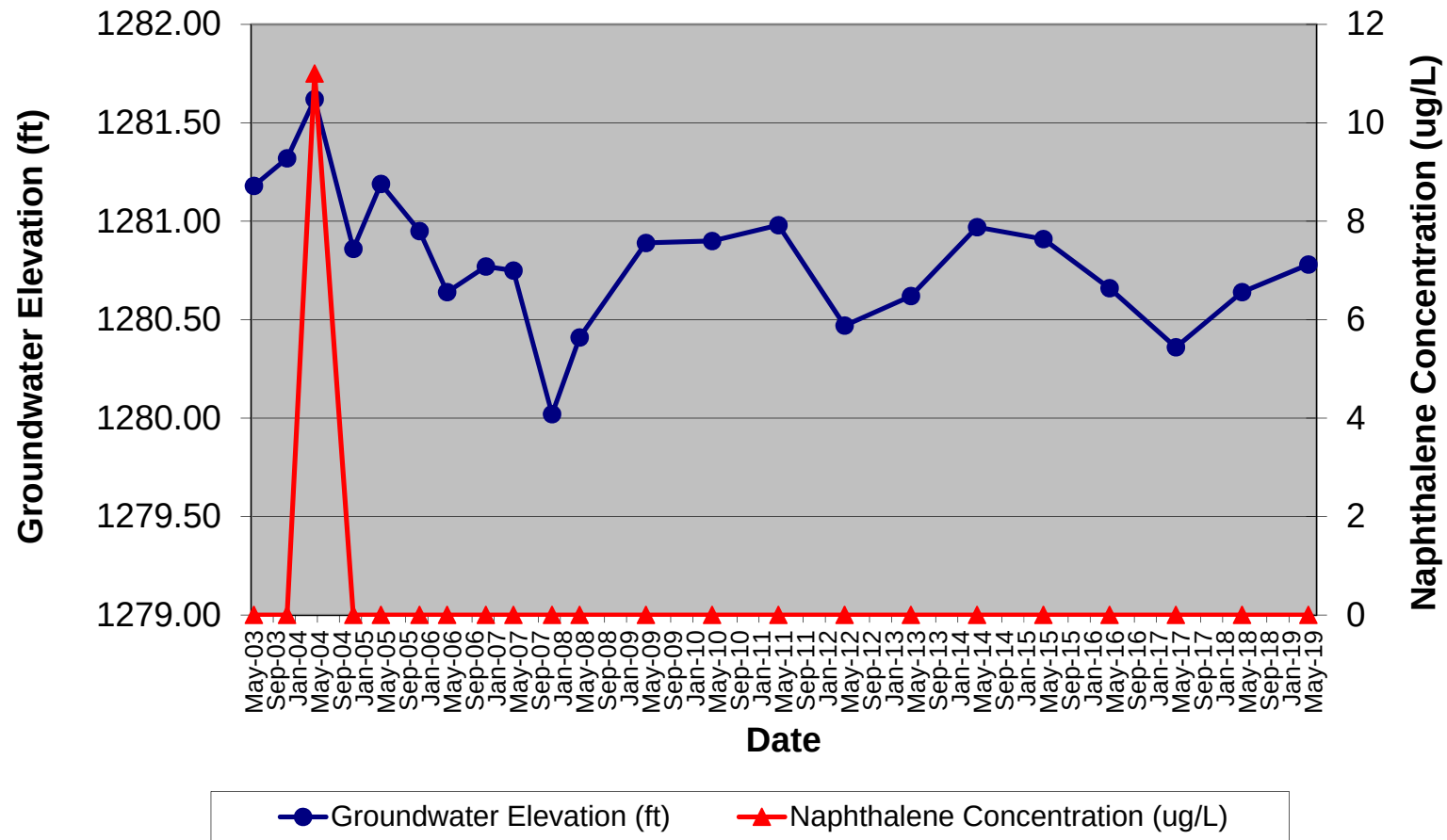
Note: The New Hampshire Ambient Groundwater Quality Standard (AGQS) for naphthalene changed from 20 ug/L to 100 ug/L on 9/1/2018

Figure 4. Plot of Naphthalene Concentration and Water Level Data Over Time in TDS-2



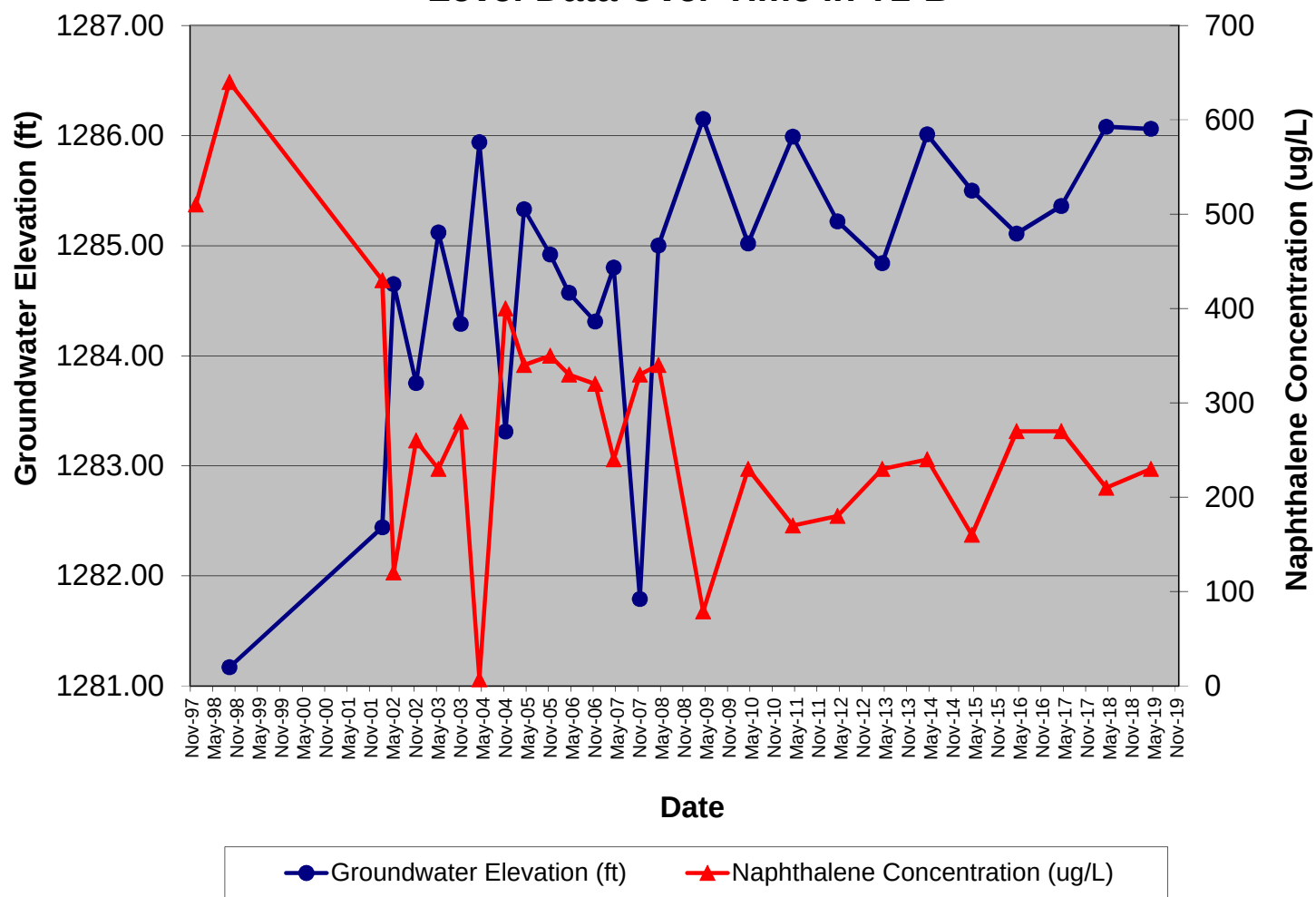
Note: The New Hampshire Ambient Groundwater Quality Standard (AGQS) for naphthalene changed from 20 ug/L to 100 ug/L on 9/1/2018

Figure 5. Plot of Naphthalene Concentration and Water Level Data Over Time in TDS-3



Note: The New Hampshire Ambient Groundwater Quality Standard (AGQS) for naphthalene changed from 20 ug/L to 100 ug/L on 9/1/2018

Figure 6. Plot of Naphthalene Concentration and Water Level Data Over Time in T1-B



Note: The New Hampshire Ambient Groundwater Quality Standard (AGQS) for naphthalene changed from 20 ug/L to 100 ug/L on 9/1/2018

ATTACHMENT 3

Laboratory Reports



Eastern Analytical, Inc.

professional laboratory and drilling services

John Rice
Wood Group dba Amec Foster Wheeler
Quorum Office Park
Chelmsford, MA 01824



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 194315
Client Identification: CR - Bard | 3651190106.0100
Date Received: 4/18/2019

Dear Mr. Rice :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.easternanalytical.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012) and New York (12072).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample (s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

5.3.19
Date

6
of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

EAI ID#: 194315

Client: Wood Group dba Amec Foster Wheeler

Client Designation: CR - Bard | 3651190106.0100

Temperature upon receipt (°C): 2.5

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date	Date	Sample	% Dry	Exceptions/Comments (other than thermal preservation)
		Received	Sampled	Matrix	Weight	
194315.01	TDS-2	4/18/19	4/18/19	aqueous		Adheres to Sample Acceptance Policy
194315.02	FT-1	4/18/19	4/18/19	aqueous		Adheres to Sample Acceptance Policy
194315.03	T1-B	4/18/19	4/18/19	aqueous		Adheres to Sample Acceptance Policy
194315.04	TDS-3	4/18/19	4/18/19	aqueous		Adheres to Sample Acceptance Policy
194315.05	Dup-1	4/18/19	4/18/19	aqueous		Adheres to Sample Acceptance Policy
194315.06	Trip Blank	4/18/19	4/10/19	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitability, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd Edition or noted Revision year.
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 4th edition, 1992



LABORATORY REPORT

EAI ID#: 194315

Client: Wood Group dba Amec Foster Wheeler

Client Designation: CR - Bard | 3651190106.0100

Sample ID:	TDS-2	FT-1	T1-B	TDS-3	Dup-1	Trip Blank
Lab Sample ID:	194315.01	194315.02	194315.03	194315.04	194315.05	194315.06
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/18/19	4/18/19	4/18/19	4/18/19	4/18/19	4/10/19
Date Received:	4/18/19	4/18/19	4/18/19	4/18/19	4/18/19	4/18/19
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/22/19	4/22/19	4/22/19	4/22/19	4/22/19	4/22/19
Analyst:	BAM	BAM	BAM	BAM	BAM	BAM
Method:	8260C	8260C	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1	1	1
Dichlorodifluoromethane	< 5	< 5	< 5	< 5	< 5	< 5
Chloromethane	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	< 5	< 5	< 5	< 5	< 5	< 5
Diethyl Ether	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30	< 30	< 30
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5
Carbon disulfide	< 2	< 2	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 5	< 5	< 5	< 5	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5	< 5	< 5	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	1.4	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 2	< 2	< 2	< 2	< 2	< 2
Chlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	9.9	< 1	36	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 194315

Client: Wood Group dba Amec Foster Wheeler

Client Designation: CR - Bard | 3651190106.0100

Sample ID:	TDS-2	FT-1	T1-B	TDS-3	Dup-1	Trip Blank
Lab Sample ID:	194315.01	194315.02	194315.03	194315.04	194315.05	194315.06
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/18/19	4/18/19	4/18/19	4/18/19	4/18/19	4/10/19
Date Received:	4/18/19	4/18/19	4/18/19	4/18/19	4/18/19	4/18/19
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/22/19	4/22/19	4/22/19	4/22/19	4/22/19	4/22/19
Analyst:	BAM	BAM	BAM	BAM	BAM	BAM
Method:	8260C	8260C	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1	1	1
mp-Xylene	10	< 1	33	< 1	< 1	< 1
o-Xylene	2.3	< 1	6	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2	< 2	< 2
IsoPropylbenzene	1.8	< 1	17	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	2.7	< 1	34	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	7.6	< 1	69	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	1.8	< 1	< 1	< 1
1,2,4-Trimethylbenzene	38	1	200	< 1	< 1	< 1
sec-Butylbenzene	1.2	< 1	10	2.1	2.3	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	1.5	< 1	11	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	1.5	< 1	14	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	67	< 5	230	< 5	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1
4-Bromofluorobenzene (surr)	92 %R	101 %R	96 %R	102 %R	96 %R	93 %R
1,2-Dichlorobenzene-d4 (surr)	98 %R	96 %R	97 %R	101 %R	92 %R	96 %R
Toluene-d8 (surr)	103 %R	99 %R	101 %R	99 %R	98 %R	98 %R
1,2-Dichloroethane-d4 (surr)	92 %R	100 %R	92 %R	92 %R	92 %R	93 %R

The value(s) for n-Butylbenzene may be elevated due to non-target interference.



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Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 5	18 (89 %R)	18 (88 %R) (1 RPD)	4/22/2019	ug/L	40 - 160	20	8260C
Chloromethane	< 2	14 (69 %R)	14 (70 %R) (1 RPD)	4/22/2019	ug/L	40 - 160	20	8260C
Vinyl chloride	< 2	14 (72 %R)	15 (73 %R) (1 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Bromomethane	< 2	* 4.7 (24 %R)	* 3.7 (18 %R) (26 RPD) !	4/22/2019	ug/L	40 - 160	20	8260C
Chloroethane	< 5	19 (96 %R)	20 (101 %R) (6 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 5	19 (96 %R)	20 (98 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Diethyl Ether	< 5	18 (89 %R)	19 (93 %R) (4 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Acetone	< 10	20 (102 %R)	20 (102 %R) (0 RPD)	4/22/2019	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 1	24 (121 %R)	25 (127 %R) (5 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	82 (82 %R)	88 (88 %R) (7 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Methylene chloride	< 5	20 (101 %R)	21 (107 %R) (6 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	16 (81 %R)	17 (87 %R) (7 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	18 (88 %R)	19 (93 %R) (6 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 5	17 (83 %R)	18 (88 %R) (6 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 5	18 (88 %R)	18 (92 %R) (4 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 5	18 (91 %R)	19 (93 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (111 %R)	22 (112 %R) (1 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	20 (102 %R)	21 (105 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	19 (96 %R)	20 (101 %R) (5 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	20 (100 %R)	20 (101 %R) (1 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	19 (95 %R)	19 (97 %R) (3 RPD)	4/22/2019	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	20 (98 %R)	20 (101 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	18 (90 %R)	19 (96 %R) (6 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Chloroform	< 1	20 (101 %R)	21 (105 %R) (4 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	20 (101 %R)	22 (109 %R) (7 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	22 (110 %R)	23 (115 %R) (4 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	20 (102 %R)	21 (106 %R) (4 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Benzene	< 1	21 (106 %R)	23 (115 %R) (9 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	20 (99 %R)	21 (105 %R) (6 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	21 (103 %R)	21 (105 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	20 (100 %R)	20 (99 %R) (1 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	20 (101 %R)	21 (107 %R) (6 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	22 (108 %R)	23 (113 %R) (5 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (84 %R)	< 50 (104 %R) (21 RPD) !	4/22/2019	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	19 (96 %R)	20 (98 %R) (2 RPD)	4/22/2019	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	21 (104 %R)	21 (107 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Toluene	< 1	22 (108 %R)	22 (112 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	21 (103 %R)	21 (106 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	20 (102 %R)	21 (107 %R) (5 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	19 (96 %R)	20 (101 %R) (5 RPD)	4/22/2019	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	22 (110 %R)	23 (113 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	21 (105 %R)	21 (107 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	22 (110 %R)	23 (113 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 2	21 (103 %R)	21 (106 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	22 (108 %R)	22 (110 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	22 (108 %R)	22 (111 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C



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Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	22 (112 %R)	23 (114 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	44 (111 %R)	46 (114 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
o-Xylene	< 1	22 (108 %R)	21 (105 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Styrene	< 1	21 (107 %R)	22 (109 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Bromoform	< 2	21 (104 %R)	21 (107 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	22 (112 %R)	23 (117 %R) (5 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	21 (104 %R)	22 (108 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	20 (100 %R)	21 (104 %R) (4 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	19 (94 %R)	20 (99 %R) (6 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	22 (108 %R)	23 (114 %R) (5 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	21 (105 %R)	21 (103 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	22 (108 %R)	21 (107 %R) (1 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	22 (109 %R)	22 (112 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	22 (109 %R)	23 (113 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	22 (111 %R)	22 (112 %R) (1 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	21 (106 %R)	22 (109 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	22 (108 %R)	22 (110 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	21 (107 %R)	22 (111 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	21 (106 %R)	22 (110 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	21 (106 %R)	22 (109 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	22 (111 %R)	21 (107 %R) (4 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	19 (94 %R)	20 (100 %R) (6 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	21 (104 %R)	20 (102 %R) (2 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	21 (103 %R)	21 (106 %R) (3 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	18 (92 %R)	17 (87 %R) (5 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
Naphthalene	< 5	22 (108 %R)	23 (113 %R) (4 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 1	21 (105 %R)	21 (106 %R) (1 RPD)	4/22/2019	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	88 %R	97 %R	98 %R	4/22/2019	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	103 %R	99 %R	95 %R	4/22/2019	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	98 %R	101 %R	100 %R	4/22/2019	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	102 %R	98 %R	97 %R	4/22/2019	% Rec	70 - 130	20	8260C

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

*// Flagged analyte recoveries deviated from the QA/QC limits. Unless noted below, flagged analytes that exceed acceptance limits in the Quality Control sample were not detected in the field samples.

Analytes that exceed limits high but are not detected in the field samples do not impact the data. For analytes that show low recovery and are not detected in the field samples, a low point calibration standard has been analyzed to support the reporting limit.

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