

ANNUAL REPORT

Prepared for

STANLEY BLACK & DECKER (U.S.), INC.

Hampstead, Maryland

July 2015

Prepared by

WESTON SOLUTIONS, INC.

West Chester, Pennsylvania 19380-1499

W.O. No. 02501.004.004.0700

TABLE OF CONTENTS

Section	Page
1. INTRODUCTION.....	1-1
2. SITE CHARACTERISTICS.....	2-1
2.1 HYDRAULIC PROPERTIES	2-1
2.2 EFFLUENT CHARACTERISTICS	2-1
2.3 GROUNDWATER QUALITY DATA	2-1
3. OPERATION AND MAINTENANCE OF THE TREATMENT SYSTEM.....	3-1
4. TREATMENT SYSTEM PERFORMANCE EVALUATION.....	4-1
5. RECOMMENDATIONS.....	5-1

LIST OF APPENDICES

APPENDIX A – WITHDRAWAL REPORTS

APPENDIX B – DISCHARGE MONITORING REPORTS

APPENDIX C – GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS

APPENDIX D - GROUNDWATER ANALYTICAL DATA PACKAGE (MAY 2015)

LIST OF FIGURES

Figure	Page
Figure 2-1 Groundwater Elevation Contour Map Under Pumping Conditions (June 2015).....	2-6

LIST OF TABLES

Table	Page
Table 2-1 Treatment System Pumping Records (July 2014 through June 2015)	2-2
Table 2-2 Groundwater Elevation Data (July 2014 through June 2015)	2-3
Table 2-3 Effluent Characteristics Summary (July 2014 through June 2015).....	2-7
Table 2-4 Summary of Groundwater Analytical Results – August 2014	2-10
Table 2-5 Summary of Groundwater Analytical Results – November 2014.....	2-13
Table 2-6 Summary of Groundwater Analytical Results – February 2015	2-16
Table 2-7 Summary of Groundwater Analytical Results – May 2015	2-19
Table 3-1 Treatment System Maintenance Activities (July 2014 through June 2015).....	3-2

1. INTRODUCTION

This Annual Report has been prepared to meet the requirements of Condition IV.L of the Administrative Consent Order between the State of Maryland Department of the Environment (MDE) and Black & Decker (U.S.) Inc. (April 1995) (Consent Order) and the Addendum to Administrative Consent Order dated 29 June 1995. Specifically, Condition IV.L calls for preparation of an Annual Report containing a summary of the information contained in the Discharge Monitoring Reports (Table 2-3), a summary of all analyses of water samples (Tables 2-4 to 2-7), an explanation of all problems encountered and the manner in which they were resolved (Table 3-1), a performance evaluation of the treatment system (Section 4), and recommendations for continuation of, or changes to, the treatment system (Section 5). This document is one of several that are being prepared in response to the Consent Order; each of these documents are to be submitted to the MDE in accordance with the schedule outlined in the Consent Order. This document will become part of the Administrative Record for the site, which is maintained at the Hampstead Public Library.

2. SITE CHARACTERISTICS

2.1 HYDRAULIC PROPERTIES

In accordance with the Consent Order and the Water Appropriation Permit issued to the Black & Decker (U.S.) Inc. Hampstead, Maryland, facility, the following pumping and water level information is included for the period of July 2014 through June 2015.

Pumping records showing the total gallons pumped per month of treatment system operation are presented in Table 2-1. Copies of the Withdrawal Reports, for the periods of April through June 2015, are included in Appendix A.

Water levels (Water Level Monitoring Report) for wells included in the water level monitoring plan are presented in Table 2-2. Based on the June 2015 water levels, a representative groundwater elevation contour map under pumping conditions is presented in Figure 2-1. At the time the data were collected, the extraction wells were pumping at a combined rate of approximately 178 gpm.

2.2 EFFLUENT CHARACTERISTICS

Effluent characteristics of the NPDES discharge points are recorded monthly on Discharge Monitoring Reports (DMRs) and are submitted to MDE, Water Management Administration on a quarterly basis. A summary of the sample results from the DMRs is presented in Table 2-3. DMRs for the period of April 2015 through June 2015 are included in Appendix B.

2.3 GROUNDWATER QUALITY DATA

For the reporting period of July 2014 through June 2015, approximately 47.8 pounds (lbs) of total volatile organic compounds (VOCs) were removed from the groundwater by the extraction and treatment system. In general, the total VOCs were comprised of trichloroethene (TCE) (71.3%) and tetrachloroethene (PCE) (28.7%). Analytical results for the air stripper discharge for the period of April 2015 through June 2015 are included in Appendix C.

Table 2-1
Treatment System Pumping Records
(July 2014 through June 2015)

Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
July 2014	8,365,626
August 2014	7,970,793
September 2014	7,680,935
October 2014	7,657,996
November 2014	7,136,612
December 2014	7,189,909
January 2015	6,944,545
February 2015	4,056,998
March 2015	6,169,819
April 2015	6,914,581
May 2015	7,833,944
June 2015	7,374,206

Table 2-2
Groundwater Elevation Data (July 2014 through June 2015)
Black & Decker
Hampstead, Maryland

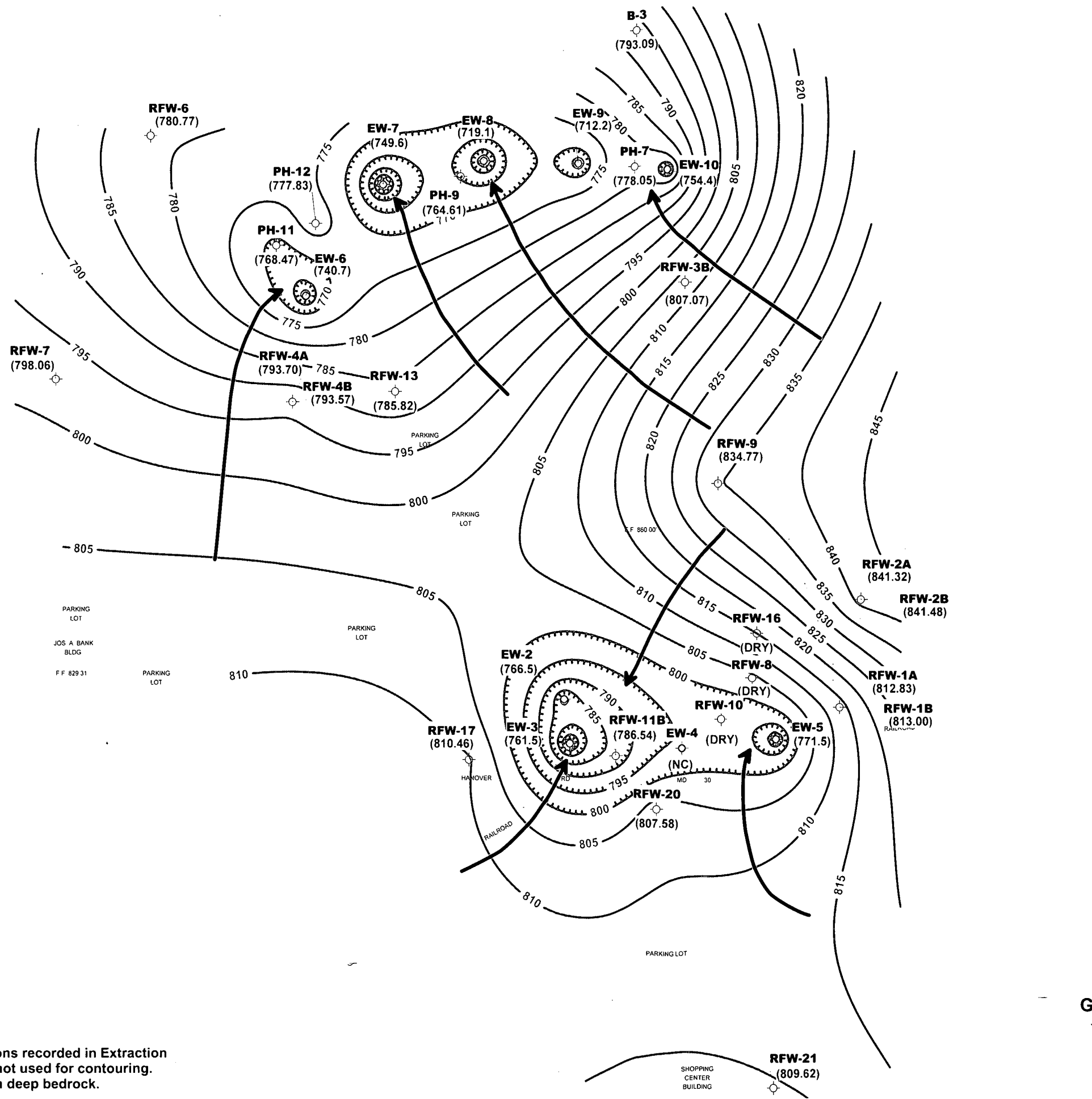
WELL NO.	TOC ELEV.	TOTAL DEPTH	7/15/2014		8/27/2014		9/25/2014		10/14/2014	
			DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
EW-1	847.21	55	DRY	NC	DRY	NC	DRY	NC	DRY	NC
EW-2	849.21	110	72.74	776.47	78.84	770.37	78.10	771.11	79.40	769.81
EW-3	846.64	118	89.19	757.45	86.49	760.15	85.94	760.70	85.60	761.04
EW-4	858.01	97.5	PC	NC	PC	NC	PC	NC	PC	NC
EW-5	864.17	98	89.75	774.42	89.91	774.26	89.74	774.43	90.10	774.07
EW-6	831.98	115	74.30	757.68	77.91	754.07	78.11	753.87	84.21	747.77
EW-7	818.38	78	59.44	758.94	55.36	763.02	57.23	761.15	59.77	758.61
EW-8	811.13	98	93.00	718.13	91.43	719.70	91.30	719.83	91.53	719.60
EW-9	811.35	141	96.30	715.05	95.87	715.48	95.81	715.54	97.00	714.35
EW-10	807.74	NA	53.22	754.52	48.97	758.77	49.73	758.01	55.71	752.03
RFW-1A	864.37	78	48.02	816.35	47.92	816.45	48.11	816.26	48.36	816.01
RFW-1B	864.23	200	48.05	816.18	47.99	816.24	48.18	816.05	48.41	815.82
RFW-2A	857.41	35	11.31	846.10	14.51	842.90	14.53	842.88	14.81	842.60
RFW-2B	857.73	75	11.82	845.91	15.16	842.57	15.21	842.52	15.40	842.33
RFW-3B	839.21	153	27.01	812.20	30.33	808.88	30.30	808.91	31.02	808.19
RFW-4A	830.37	62	32.91	797.46	35.78	794.59	35.84	794.53	36.22	794.15
RFW-4B	830.37	120	32.63	797.74	35.69	794.68	35.77	794.60	36.41	793.96
RFW-5A	817.50	30	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-6	785.04	120	4.02	781.02	2.95	782.09	4.10	780.94	4.11	780.93
RFW-7	805.14	29	7.65	797.49	5.81	799.33	7.03	798.11	7.53	797.61
RFW-8	860.07	53	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-9	862.02	49	23.83	838.19	25.55	836.47	26.03	835.99	26.12	835.90
RFW-10	852.06	58	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-11A	849.32	72	Damaged	NC	Damaged	NC	Damaged	NC	Damaged	NC
RFW-11B	849.62	116	58.13	791.49	59.44	790.18	58.73	790.89	59.13	790.49
RFW-12B	844.87	264	49.28	795.59	48.23	796.64	48.94	795.93	48.98	795.89
RFW-13	849.11	150	60.51	788.60	57.29	791.82	59.04	790.07	59.21	789.90
RFW-14B	812.39	281	53.47	758.92	53.79	758.60	54.80	757.59	51.87	760.52
RFW-16	856.14	41	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-17	834.66	60.5	23.52	811.14	24.36	810.30	34.41	800.25	30.26	804.40
RFW-20	842.29	142	30.31	811.98	32.16	810.13	32.21	810.08	32.43	809.86
RFW-21	832.65	102	19.29	813.36	20.18	812.47	20.19	812.46	20.36	812.29
PH-7	805.94	89	26.04	779.90	27.43	778.51	27.81	778.13	29.74	776.20
PH-9	814.94	98	50.39	764.55	43.28	771.66	44.24	770.70	45.15	769.79
PH-11	820.68	78	47.17	773.51	48.11	772.57	48.23	772.45	48.71	771.97
PH-12	828.35	87	48.13	780.22	49.06	779.29	49.01	779.34	49.36	778.99
B-3	803.02	83	10.84	792.18	9.88	793.14	10.37	792.65	10.24	792.78
Amoco	842.29	NA	NA	NC	NA	NC	NA	NC	NA	NC
Hamp. Town #22	804.96	NA	1.29	803.67	1.03	803.93	1.43	803.53	1.19	803.77
Pembroke #1	NA	NA	10.45	NC	10.58	NC	10.73	NC	11.80	NC
Pembroke #2	NA	NA	Damaged	NC	Damaged	NC	Damaged	NC	Damaged	NC
N. Houcks. Rd.	NA	NA	9.96	NC	10.39	NC	10.51	NC	9.98	NC
E. Century St.	NA	NA	19.29	NC	19.21	NC	19.27	NC	19.26	NC
Lwr. Beckleys. Rd.	NA	NA	53.56	NC	54.55	NC	54.21	NC	55.47	NC

Table 2-2
Groundwater Elevation Data (July 2014 through June 2015)
Black & Decker
Hampstead, Maryland

WELL NO.	FOC ELEV.	TOTAL DEPTH	11/24/2014		12/12/2014		1/20/2015		2/25/2015	
			DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
EW-1	847.21	55	DRY	NC	DRY	NC	DRY	NC	DRY	NC
EW-2	849.21	110	81.03	768.18	83.50	765.71	82.47	766.74	81.10	768.11
EW-3	846.64	118	89.26	757.38	90.10	756.54	90.52	756.12	90.76	755.88
EW-4	858.01	97.5	PC	NC	PC	NC	PC	NC	PC	NC
EW-5	864.17	98	89.91	774.26	90.25	773.92	86.43	777.74	84.35	779.82
EW-6	831.98	115	78.00	753.98	83.24	748.74	84.25	747.73	89.69	742.29
EW-7	818.38	78	55.43	762.95	58.71	759.67	57.43	760.95	56.17	762.21
EW-8	811.13	98	93.00	718.13	93.00	718.13	92.95	718.18	91.83	719.30
EW-9	811.35	141	95.44	715.91	100.30	711.05	100.49	710.86	92.37	718.98
EW-10	807.74	NA	54.57	753.17	55.84	751.90	56.27	751.47	54.49	753.25
RFW-1A	864.37	78	51.87	812.50	52.01	812.36	50.43	813.94	49.47	814.90
RFW-1B	864.23	200	51.91	812.32	52.03	812.20	50.46	813.77	49.50	814.73
RFW-2A	857.41	35	16.73	840.68	16.81	840.60	16.59	840.82	16.38	841.03
RFW-2B	857.73	75	17.40	840.33	17.52	840.21	16.99	840.74	17.03	840.70
RFW-3B	839.21	153	31.36	807.85	32.40	806.81	32.94	806.27	33.80	805.41
RFW-4A	830.37	62	37.83	792.54	38.19	792.18	38.24	792.13	38.01	792.36
RFW-4B	830.37	120	37.71	792.66	37.94	792.43	38.22	792.15	37.98	792.39
RFW-5A	817.50	30	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-6	785.04	120	4.03	781.01	5.10	779.94	4.21	780.83	4.13	780.91
RFW-7	805.14	29	6.74	798.40	7.47	797.67	7.46	797.68	7.88	797.26
RFW-8	860.07	53	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-9	862.02	49	26.94	835.08	27.02	835.00	27.24	834.78	26.53	835.49
RFW-10	852.06	58	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-11A	849.32	72	Damaged	NC	Damaged	NC	Damaged	NC	Damaged	NC
RFW-11B	849.62	116	59.22	790.40	60.83	788.79	60.83	788.79	61.94	787.68
RFW-12B	844.87	264	50.89	793.98	51.01	793.86	53.31	791.56	52.88	791.99
RFW-13	849.11	150	60.90	788.21	59.41	789.70	59.26	789.85	64.15	784.96
RFW-14B	812.39	281	52.35	760.04	52.44	759.95	53.19	759.20	52.69	759.70
RFW-16	856.14	41	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-17	834.66	60.5	29.26	805.40	27.41	807.25	25.76	808.90	25.77	808.89
RFW-20	842.29	142	34.38	807.91	34.61	807.68	33.81	808.48	33.93	808.36
RFW-21	832.65	102	21.77	810.88	22.01	810.64	20.97	811.68	21.98	810.67
PH-7	805.94	89	28.68	777.26	29.43	776.51	28.76	777.18	29.24	776.70
PH-9	814.94	98	50.80	764.14	50.57	764.37	51.03	763.91	50.94	764.00
PH-11	820.68	78	50.96	769.72	50.89	769.79	50.94	769.74	50.53	770.15
PH-12	828.35	87	51.52	776.83	51.43	776.92	51.85	776.50	51.26	777.09
B-3	803.02	83	10.69	792.33	10.28	792.74	9.56	793.46	10.08	792.94
Amoco	842.29	NA	NA	NC	NA	NC	NA	NC	NA	NC
Hamp. Town #22	804.96	NA	1.12	803.84	1.62	803.34	1.89	803.07	2.73	802.23
Pembroke #1	NA	NA	11.59	NC	11.56	NC	9.65	NC	11.03	NC
Pembroke #2	NA	NA	Damaged	NC	Damaged	NC	Damaged	NC	Damaged	NC
N. Houcks. Rd.	NA	NA	10.09	NC	10.34	NC	9.89	NC	9.96	NC
E. Century St.	NA	NA	19.27	NC	19.26	NC	19.21	NC	19.20	NC
Lwr. Beckleys. Rd.	NA	NA	56.73	NC	55.89	NC	52.56	NC	52.43	NC

Table 2-2
Groundwater Elevation Data (July 2014 through June 2015)
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV	TOTAL DEPTH	3/18/2015		4/9/2015		5/26/2015		6/19/2015	
			DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	NC	DRY	NC	DRY	NC	DRY	NC
EW-2	849.21	110	83.47	765.74	84.17	765.04	80.34	768.87	82.67	766.54
EW-3	846.64	118	91.56	755.08	88.67	757.97	82.60	764.04	85.13	761.51
EW-4	858.01	97.5	PC	NC	PC	NC	PC	NC	PC	NC
EW-5	864.17	98	86.23	777.94	85.73	778.44	85.47	778.70	92.62	771.55
EW-6	831.98	115	93.00	738.98	89.55	742.43	89.35	742.63	91.28	740.70
EW-7	818.38	78	58.23	760.15	61.28	757.10	64.37	754.01	68.76	749.62
EW-8	811.13	98	92.56	718.57	91.27	719.86	91.26	719.87	92.03	719.10
EW-9	811.35	141	92.91	718.44	97.89	713.46	98.41	712.94	99.17	712.18
EW-10	807.74	NA	55.98	751.76	55.12	752.62	49.38	758.36	53.35	754.39
RFW-1A	864.37	78	50.43	813.94	51.12	813.25	51.07	813.30	51.37	813.00
RFW-1B	864.23	200	50.47	813.76	51.13	813.10	51.09	813.14	51.40	812.83
RFW-2A	857.41	35	17.02	840.39	15.86	841.55	15.70	841.71	15.93	841.48
RFW-2B	857.73	75	17.56	840.17	16.42	841.31	16.35	841.38	16.41	841.32
RFW-3B	839.21	153	34.26	804.95	32.26	806.95	31.74	807.47	32.14	807.07
RFW-4A	830.37	62	38.06	792.31	37.29	793.08	36.53	793.84	36.80	793.57
RFW-4B	830.37	120	37.56	792.81	36.32	794.05	36.38	793.99	36.67	793.70
RFW-5A	817.50	30	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-6	785.04	120	5.02	780.02	5.26	779.78	3.73	781.31	4.27	780.77
RFW-7	805.14	29	7.14	798.00	7.05	798.09	6.26	798.88	7.08	798.06
RFW-8	860.07	53	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-9	862.02	49	27.56	834.46	26.46	835.56	26.34	835.68	27.25	834.77
RFW-10	852.06	58	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-11A	849.32	72	Damaged	NC	Damaged	NC	Damaged	NC	Damaged	NC
RFW-11B	849.62	116	61.53	788.09	61.50	788.12	61.45	788.17	63.08	786.54
RFW-12B	844.87	264	53.12	791.75	49.83	795.04	49.78	795.09	50.71	794.16
RFW-13	849.11	150	63.85	785.26	62.98	786.13	63.64	785.47	63.29	785.82
RFW-14B	812.39	281	52.56	759.83	53.24	759.15	50.53	761.86	51.18	761.21
RFW-16	856.14	41	DRY	NC	DRY	NC	DRY	NC	DRY	NC
RFW-17	834.66	60.5	26.13	808.53	25.86	808.80	24.86	809.80	24.20	810.46
RFW-20	842.29	142	32.95	809.34	33.35	808.94	33.42	808.87	34.71	807.58
RFW-21	832.65	102	20.56	812.09	21.56	811.09	21.46	811.19	23.03	809.62
PH-7	805.94	89	30.05	775.89	27.43	778.51	26.55	779.39	27.89	778.05
PH-9	814.94	98	50.86	764.08	50.63	764.31	50.45	764.49	50.33	764.61
PH-11	820.68	78	50.26	770.42	51.49	769.19	51.57	769.11	52.21	768.47
PH-12	828.35	87	51.93	776.42	50.33	778.02	49.88	778.47	50.52	777.83
B-3	803.02	83	10.29	792.73	9.75	793.27	9.76	793.26	9.93	793.09
Amoco	842.29	NA	NA	NC	NA	NC	NA	NC	NA	NC
Hamp. Town #22	804.96	NA	2.08	802.88	1.57	803.39	1.47	803.49	1.45	803.51
Pembroke #1	NA	NA	11.21	NC	11.08	NC	10.27	NC	10.48	NC
Pembroke #2	NA	NA	Damaged	NC	Damaged	NC	Damaged	NC	Damaged	NC
N. Houcks. Rd.	NA	NA	10.23	NC	10.23	NC	9.87	NC	11.43	NC
E. Century St.	NA	NA	19.18	NC	19.24	NC	19.21	NC	19.27	NC
Lwr. Beckleys. Rd.	NA	NA	52.74	NC	52.49	NC	53.21	NC	54.11	NC



LEGEND

- Monitor Well
- Extraction Well
- (778.50) Monitor Well Groundwater Elevation (ft MSL)
- (746.58) Extraction Well Groundwater Elevation (ft MSL)*
- Groundwater Elevation Contour (ft MSL)
- ← Groundwater Flowline

Scale in Feet

Former Black & Decker Facility
Hampstead, Maryland

FIGURE 2-1

**GROUNDWATER ELEVATION CONTOUR MAP
PUMPING CONDITIONS**

(June 2015)

*NOTE: Groundwater Elevations recorded in Extraction Wells and RFW-12B not used for contouring. RFW-12B screened in deep bedrock.

Table 2-3
Effluent Characteristics Summary (July 2014 through June 2015)
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE					
				July 2014	August 2014	September 2014	October 2014	November 2014	December 2014
001	FLOW average	MGD	NA	0.311	0.231	0.155	0.220	0.203	0.238
	maximum	MGD	NA	0.777	0.819	0.419	0.855	0.609	0.684
	1,1,1-Trichloroethane	ug/l	5	<1	<1	<1	<1	<1	<1
	Tetrachloroethylene	ug/l	5	<1	<1	<1	<1	<1	<1
	Trichloroethylene	ug/l	5	<1	<1	<1	<1	<1	<1
	Total Residual Chlorine	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Oil & Grease maximum	mg/l	15	<5	<5	<5	<5	<5	<5
	monthly average	mg/l	10	<5	<5	<5	<5	<5	<5
	pH minimum	STD	6.0	7.2	7.1	7.4	7.1	7.2	6.8
	maximum	STD	8.5	8.4	8.2	8.3	8.3	7.6	8.2
BOD	mg/l	15	5.0	7.0	5.0	7.0	<1	3.0	
TSS	maximum	mg/l	30	0	0	0	6.0	<1	<1
	monthly average	mg/l	20	0	0	0	6.0	<1	<1
101 (Monitoring Point)	FLOW average	MGD	NA	0.180	0.149	0.145	0.142	0.118	0.125
	maximum	MGD	NA	0.210	0.190	0.163	0.246	0.174	0.311
	Fecal Coliform	MPN/100ml	200	10.0	1.0	1.0	1.0	1.0	1.0
201 (Monitoring Point)	FLOW average	MGD	NA	NR	NR	0.261	NR	NR	0.239
	maximum	MGD	NA	NR	NR	0.314	NR	NR	0.289
	1,1,1-Trichloroethane	ug/l	NA	NR	NR	<1	NR	NR	<1
	Tetrachloroethylene	ug/l	NA	NR	NR	<1	NR	NR	<1
	Trichloroethylene	ug/l	NA	NR	NR	<1	NR	NR	<1

DMR - Discharge Monitoring Report
NA - Not Applicable
NR - Not Reported

Table 2-3
Effluent Characteristics Summary (July 2014 through June 2015)
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE						
				January 2015	February 2015	March 2015	April 2015	May 2015	June 2015	
001	FLOW	average	MGD	NA	0.235	0.106	0.312	0.155	0.118	0.277
		maximum	MGD	NA	0.962	0.219	0.991	0.633	0.167	0.880
	1,1,1-Trichloroethane	ug/l	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	Tetrachloroethylene	ug/l	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	Trichloroethylene	ug/l	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	Total Residual Chlorine	mg/l	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Oil & Grease	maximum	mg/l	15	< 5	< 5	< 5	< 5	< 5	< 5
		monthly average	mg/l	10	< 5	< 5	< 5	< 5	< 5	< 5
	pH	minimum	STD	6.0	7.2	7.5	7.4	7.3	7.3	7.2
		maximum	STD	8.5	7.8	7.9	8.3	8.2	7.8	7.5
BOD		mg/l	15	2.0	< 1	4.0	5.0	5.0	6.0	
TSS	maximum	mg/l	30	< 1	< 1	< 1	7.0	< 5	< 5	
	monthly average	mg/l	20	< 1	< 1	< 1	7.0	< 5	< 5	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.150	0.144	0.147	0.156	0.136	0.143
		maximum	MGD	NA	0.196	0.185	0.289	0.221	0.201	0.191
	Fecal Coliform	MPN/100ml	200	1.0	1.0	1.0	1.0	1.0	27.0	
201 (Monitoring Point)	FLOW	average	MGD	NA	NR	NR	0.191	NR	NR	0.243
		maximum	MGD	NA	NR	NR	0.385	NR	NR	0.309
	1,1,1-Trichloroethane	ug/l	NA	NR	NR	< 1	NR	NR	< 1	
	Tetrachloroethylene	ug/l	NA	NR	NR	< 1	NR	NR	< 1	
	Trichloroethylene	ug/l	NA	NR	NR	< 1	NR	NR	< 1	

DMR - Discharge Monitoring Report
NA - Not Applicable
NR - Not Reported

A summary of the analytical results of the groundwater samples collected from the monitor and extraction wells during the third and fourth quarters of 2014 and the first and second quarters of 2015 are included in Tables 2-4, 2-5, 2-6, and 2-7, respectively. As found in earlier sampling events at the Black & Decker facility, TCE and PCE were the primary VOCs detected at the highest concentrations in the groundwater samples. The highest concentrations of TCE were detected in the groundwater samples collected from wells EW-4 and RFW-12B and the highest concentrations of PCE were detected in the groundwater samples collected from wells EW-9 and RFW-4B. The remainder of the detected VOCs, were detected at levels well below the Federal Maximum Concentration Levels (MCLs). The second quarter 2015 (May 2015) analytical data package is included in Appendix D. Analytical data packages for the remaining quarters are included in the respective Quarterly Groundwater Monitoring Reports.

Table 2-4
 Summary of Groundwater Analytical Results - August 2014
 Black & Decker
 Hampstead, Maryland

PARAMETER	Units	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-9 (DUP)	EW-10
Chloromethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acetone	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	0.8 J	1 U	1 U	1 U
1,2-Dichloroethene (total)	ug/L	NS	3	1.8	1 U	1 U	1 U	2.9	23	1 U	1 U	1 U
Chloroform	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/L	NS	130	34	540	100	4.6	2	6.8	0.4 J	0.5 J	1 U
Dibromochloromethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	ug/L	NS	51	1.4	11	3.6	10	5.1	73	98	99	2
1,1,1,2-Tetrachloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification.

J = Indicates an estimated value.

NS = Not Sampled

Table 2-4
Summary of Groundwater Analytical Results - August 2014
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-1A	RFW-1B	RFW-2A	RFW-2B	RFW-3B	RFW-4A	RFW-4A (DUP)	RFW-4B	RFW-5A	RFW-6	RFW-7	RFW-8	RFW-9	RFW-10
Chloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Bromomethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Vinyl Chloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Chloroethane	ug/L	1 U	1 U	1 U	1 U	1.6	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Methylene Chloride	ug/L	2 U	2 U	2 U	2 U	2 U	1 U	1 U	1 U	NS	1 U	7	NS	1 U	NS
Acetone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
1,1-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	0.6 J	NS
1,1-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	0.7 J	NS
1,2-Dichloroethene (total)	ug/L	1 U	1 U	1 U	1 U	1.2	0.9 J	0.9 J	3	NS	1 U	1 U	NS	15	NS
Chloroform	ug/L	1 U	1 U	1 U	1 U	1 U	0.6 J	0.5 J	1.2	NS	1 U	1 U	NS	1 U	NS
1,2-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
2-Butanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	0.6 J	NS
Carbon Tetrachloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Bromodichloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
1,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Trichloroethene	ug/L	1 U	1 U	0.3 J	0.3 J	1 U	34	33	48	NS	0.5 J	2.1	NS	7.5	NS
Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Benzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	0.2 J	NS	1 U	NS
Trans-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Bromoform	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
2-Hexanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U	0.7 J	28	28	84	NS	0.7 J	1 U	NS	4.2	NS
1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Toluene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Chlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Styrene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Xylene (total)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS

Notes: DUP = Duplicate sample
NS = Not sampled

U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification.
J = Indicates an estimated value.