Quarterly Groundwater Monitoring Report

Prepared for

Black & Decker (U.S.) Inc.

Hampstead, Maryland

October 2012

Prepared by

WESTON SOLUTIONS, INC.

West Chester, Pennsylvania 19380-1499

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1. INTRODUCTION

This Groundwater Monitoring Report has been prepared to meet the requirements of Condition IV.G 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). Specifically, Condition IV.G calls for preparation of a Groundwater Monitoring Report containing the following information for each reporting period:

- The quantities of groundwater pumped, treated, and discharged.
- The calculation of quantities of contaminants removed from groundwater.
- A summary of all sampling analyses.
- An explanation of all operational or other problems encountered, and the manner in which each problem was resolved.
- Copies of all reports submitted to the Department of Natural Resources in conjunction with the Groundwater Appropriations Permit.
- Recommendations for changes to the Interim Groundwater Treatment System.

This document is one of several which 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 and Decker (U.S.) Inc. Hampstead, Maryland, facility, the following pumping and water level information is included for the period of July through September 2012.

Pumping records showing the total gallons pumped per month of treatment system operation are presented in Table 2-1. The complete groundwater treatment system pumping records are included in Appendix A.

Monthly water levels for wells included in the water level monitoring plan are presented in Table 2-2. For the reporting period of July through September 2012, the extraction wells were pumping at an average combined rate of approximately 174 gallons per minute (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 July through September 2012 are included in Appendix B.

2.3 GROUNDWATER QUALITY DATA

For the reporting period of July through September 2012, approximately 11.22 pounds of total volatile organic compounds (VOCs) were removed from the groundwater by the extraction and treatment system. In general, the total VOCs removed from the groundwater were comprised primarily of trichloroethene (TCE) (82.8 %) and tetrachloroethene (PCE) (17.2 %). Analytical results of the groundwater collected from the air stripper for the period of July through September 2012 are included in Appendix C.

A summary of the analytical results from the third quarter (August 2012) groundwater sampling round of the extraction and monitor wells is included in Table 2-4. The complete

Table 2-1
Treatment System Pumping Records - 3rd Quarter 2012
Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
July 2012	7,558,744
August 2012	7,570,966
September 2012	7,177,687

Table 2-2
Groundwater Elevation Data - 3rd Quarter 2012
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV.	TOTAL DEPTH	7/13/2012 DTW	7/13/2012 ELEV	8/23/2012 DTW	8/23/2012 ELEV	9/5/2012 DTW	9/5/2012 ELEV
EW-1	847.21	55	DRY	NC	DRY	NC	DRY	NC
EW-2	849.21	110	93.51	755.70	93.27	755.94	63.12	786.09
EW-3	846.64	118	86.84	759.80	83.64	763.00	84.12	762.52
EW-4	858.01	97.5	PC	NC	PC	NC	PC	NC
EW-5	864.17	98	89.47	774.70	90.12	774.05	90.26	773.91
EW-6	831.98	115	102.50	729.48	103.00	728.98	103.00	728.98
EW-7	818.38	78	71.40	746.98	73.00	745.38	73.00	745.38
EW-8	811.13	98	93.50	717.63	96.00	715.13	96.00	715.13
EW-9	811.35	141	103.00	708.35	103.00	708.35	103.00	708.35
EW-10	807.74	INA	57.41	750.33	49.02	758.72	49.13	758.61
RFW-1A	864.37	78	50.46	813.91	50.31	814.06	50.40	813.97
RFW-1B	864.23	200	50.51	813.72	50.36	813.87	50.43	813.80
RFW-2A	857.41	35	13.40	844.01	14.93	842.48	15.01	842.40
RFW-2B	857.73	75	14.06	843.67	15.61	842.12	15.82	841.91
RFW-3B	839.21	153	30.79	808.42	31.08	808.13	30.96	808.25
RFW-4A	830.37	62	38.41	791.96	36.80	793.57	36.67	793.70
RFW-4B	830.37	120	38.99	791.38	36.71	793.66	36.54	793.83
RFW-5A	817.50	30	DRY	NC	DRY	NC	DRY	NC
RFW-6	785.04	120	4.41	780.63	2.31	782.73	2.74	782.30
RFW-7	805.14	29	6.99	798.15	6.41	798.73	6.82	798.32
RFW-8	860.07	56	DRY	NC	DRY	NC	DRY	NC
RFW-9	862.02	49	25.49	836.53	26.07	835.95	26.21	835.81
RFW-10	852.06	58	DRY	NC	DRY	NC	DRY	NC
RFW-11A	849.32	72	Damaged	NC	Damaged	NC	Damaged	NC
RFW-11B	849.62	116	65.11	784.51	63.10	786.52	62.91	786.71
RFW-12B	844.87	264	51.24	793.63	49.88	794.99	49.94	794.93
RFW-13	849.11	150	62.91	786.20	61.38	787.73	61.29	787.82
RFW-14B	812.39	281	53.60	758.79	51.26	761.13	51.89	760.50
RFW-16	856.14	41	DRY	NC	DRY	NC	DRY	NC
RFW-17	834.66	60.5	26.12	808.54	25.96	808.70	25.94	808.72
RFW-20	842.49	142	32.89	809.60	34.88	807.61	33.91	808.58
RFW-21	832.65	102	20.80	811.85	21.03	811.62	20.96	811.69
PH-7	805.94	89	27.41	778.53	29.10	776.84	28.87	777.07
PH-9	814.94	98	53.10	761.84	51.87	763.07	52.26	762.68
PH-11	820.68	78	53.33	767.35	49.42	771.26	48.98	771.70
PH-12	828.35	87	51.73	776.62	52.67	775.68	51.63	776.72
B-3	803.02	83	10.62	792.40	10.74	792.28	10.69	792.33
Amoco	842.29	INA	NA	NC	NA	NC	NA	NC
Hamp. Town #22	804.96	INA	0.41	804.55	1.12	803.84	0.76	804.20
Pembroke #1	INA	INA	11.41	NC	10.97	NC	11.43	NC
Pembroke #2	INA	INA	Damaged	NC	Damaged	NC	Damaged	NC
N. Houcks. Rd.	INA	INA	10.53	NC	10.96	NC	10.69	NC
E. Century St.	INA	INA	19.23	NC	19.18	NC	19.27	NC
Lwr. Beckleys. Rd.	INA	INA	55.47	NC	54.93	NC	54.86	NC

NA - Not Available/Not Accessible
NC - Not Calculable
INA - Information not available
PC - Pump Cycles

Table 2-3
Effluent Characteristics Summary - 3rd Quarter 2012
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter		Units	Permit Limits	DMR DATE		
					July 2012	August 2012	September 2012
001	FLOW	average	MGD	NA	0.196	0.184	0.154
		maximum	MGD	NA	0.804	0.739	0.356
	1,1,1-Trichloroethane		ug/l	5	< 1	< 1	< 1
	Tetrachloroethylene		ug/l	5	< 1	< 1	< 1
	Trichloroethylene		ug/l	5	< 1	< 1	< 1
	Total Residual Chlorine		mg/l	< 0.1	< 0.1	< 0.1	< 0.1
	Oil & Grease	maximum	mg/l	15	< 5	< 5	< 5
		monthly average	mg/l	10	< 5	< 5	< 5
	pH	minimum	STD	6.0	7.0	7.0	7.0
		maximum	STD	8.5	7.4	7.8	8.1
	BOD		mg/l	15	7.0	5.0	2.0
	TSS	maximum	mg/l	30	10.0	19.0	0.0
		monthly average	mg/l	20	10.0	19.0	0.0
101 (Monitoring Point)	FLOW	average	MGD	NA	0.137	0.190	0.205
		maximum	MGD	NA	0.292	0.236	0.245
	Fecal Coliform		MPN/100ml	200	7.8	49.0	1.0
201 (Monitoring Point)	FLOW	average	MGD	NA	NR	NR	0.242
		maximum	MGD	NA	NR	NR	0.268
	1,1,1-Trichloroethane		ug/l	NA	NR	NR	< 1
	Tetrachloroethylene		ug/l	NA	NR	NR	< 1
	Trichloroethylene		ug/l	NA	NR	NR	< 1

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

Table 2-4

Summary of Groundwater Analytical Results - August 2012

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	0.7 J	1 U	1 U	1 U
1,2-Dichloroethene (total)	ug/L	NS	3.7	1.7	1 U	1 U	1 U	3.9	24	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	220	44	790	100	6.3	3.2	8.5	0.7	0.7	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	16	3.2	12	7.1	71	85	88	0.8 J
1,1,2,2-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 2012
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 U	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	2 U	2 U	2 U	NS	2 U	2 U	NS	2 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	0.8 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	0.8 J	NS
1,2-Dichloroethene (total)	ug/L	1 U	1 U	1 U	1 U	1.5	0.7 J	0.7 J	3.1	NS	1 U	1 U	NS	16	NS
Chloroform	ug/L	1 U	1 U	1 U	1 U	1 U	0.6 J	0.6 J	1 U	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	0.9 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	0.5 J	0.5	1	1	0.7	28	28	11	NS	0.7	2.2	NS	11	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	0.6 J	20	20	28	NS	0.6 J	1 U	NS	6	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	0.2 J	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.

Table 2-4
Summary of Groundwater Analytical Results - August 2012
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-11A	RFW-11B	RFW-12B	RFW-13	RFW-16	RFW-17	Leister Dairy	Leister Res. #1	Leister Res. #2	Trip Blank	RFW-20	RFW-21	Town #22	Town #23	Trip Blank
												USEPA drinking water method 524.2				
Chloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	NS	2 U	2 U	2 U	NS	2 U	ABD	ABD	ABD	2 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	NS	10 U	10 U	10 U	14
Carbon Disulfide	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	NS	NA	NA	NA	NA
1,1-Dichloroethene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	ug/L	NS	1 U	1.8	0.7 J	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.4 J	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	NS	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	NS	3	73	2.3	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	NS	1 U	1 U	1 U	NS	0.9	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	NS	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	NS	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	1 U	4.7	13	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	ug/L	NS	0.1 J	0.1 J	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U

Notes: Samples from wells RFW-20 & 21, Town-22&23 are analyzed with the USEPA drinking water method 524.2 at the request of the MDE Source Protection and Appropriation Division.
Samples from all of the other wells are analyzed with USEPA Method 8260.

NS = Not sampled

U = Compound was analyzed but not detected.

ABD = Well has been abandoned

RFW -20 was not sampled because it was damaged. The well is now repaired and will be sampled during the 4th quarter.

analytical data package is included in Appendix D.

As found in earlier sampling events at the Black & Decker facility, TCE and PCE were the VOCs detected at the highest concentrations in the groundwater samples. The highest concentration of TCE was detected in the groundwater samples collected from wells EW-2 and EW-4 and the highest concentration of PCE was detected in the groundwater sample collected from well EW-9. The remainder of VOCs present were detected at levels below the Federal Maximum Contaminant Levels (MCL).

3. OPERATION AND MAINTENANCE OF THE TREATMENT SYSTEM

A summary of the maintenance activities which were undertaken with the extraction and treatment system during the reporting period (July through September 2012) is provided in Table 3-1. This table is comprehensive in summarizing significant maintenance events or activities, while not including those activities considered unworthy of note (such as replacement of light bulbs, lubrication of moving parts as appropriate or other routine activities).

Table 3-1
Treatment System Maintenance Activities - 3rd Quarter 2012
Black & Decker
Hampstead, Maryland

Date	Event/Corrective Action
Jul-12	Alarm at the air stripper due to a power outage caused by a thunderstorm. The system is back online.
Jul-12	Air stripper calibrations done by Micro-Tech.
Jul-12	Alarm at the air stripper due to a power outage. The system is back online.
Aug-12	Alarm at the air stripper due to a series of power outages caused by severe weather. The system is back online.

4. RECOMMENDATIONS

For the reporting period of July through September 2012, the treatment system continued to create a hydraulic boundary preventing off-site migration of groundwater. The extraction system will continue to operate as currently configured to pump and treat contaminated groundwater. Depth-to-water measurements will continue to be collected on a monthly basis in all site monitor wells to construct a groundwater elevation contour map for the site. The groundwater elevation contour map will be used to verify that the required area of groundwater capture is being maintained. If necessary, pumping rates will be adjusted to maintain groundwater capture due to seasonal fluctuations in groundwater elevations. The treatment system will also continue to operate as currently configured, as data collected have proven that the treatment system is fully effective in removing VOCs from the extracted groundwater.

APPENDIX A
GROUNDWATER TREATMENT SYSTEM PUMPING RECORDS
(JULY – SEPTEMBER 2012)

MARYLAND DEPARTMENT of the ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION, 1800 WASHINGTON BLVD, BALTIMORE, MD 21230

Operated By:
Maryland Environmental Service
259 Najoles Road, Millersville MD

Facility: BTR Capital Group
Address: 626 Hanover Pike, Hampstead Maryland
Additional Op's & cert # - Dorrance Jones 0763, Gary Dickerson 0782, Anthony Phillips 3001, David Brenk 2754, Philip Pitts 2999, James Elliott 3738

Permit Number: 02-DP-0022
Superintendent: Earle Villarreal
Certification # 1017

Month: July
Year: 2012

	Final Effluent outfall 001										Outfall 101						Outfall 201				
Date	Appearance	Discharge MGD	pH su	Cl2 mg/l	Tetrachloroethylene ug/l	1,1,1-Trichloroethane ug/l	Trichloroethene ug/l	BOD_5 mg/l	TSS mg/l	O&G mg/l	Flow MGD	Fecal mpn	Basin Inches	Alum Gpd	Hypochlorite Gpd	Post Cl2 mg/l	Tetrachloroethylene ug/l	1,1,1-Trichloroethane ug/l	Trichloroethene ug/l	Discharge mgd	Operator
1	Clear	0.12500									0.166000		0.0	1.0	1.0	5.0				0.236691	Djones
2	Clear	0.12100									0.159000		0.0	1.0	1.0	5.0				0.247988	Gdickerson
3	Clear	0.11700	7.12	0.00							0.167000		0.0	1.0	1.0	5.0				0.230792	Gdickerson
4	Clear	0.11600	7.09	0.00							0.061000		0.0	1.0	1.0	5.0				0.250681	Dbrenk
5	Clear	0.12800	7.03	0.00								< 1.8	0.0							0.258298	Gdickerson
6	Clear	0.33200											0.0							0.206329	Gdickerson
7	Clear	0.19300									0.028000		0.0	1.0	1.0	5.0				0.255413	Aphillips
8	Clear	0.11600											0.0							0.240949	Aphillips
9	Clear	0.10700									0.170000		0.0	1.0	1.0	5.0				0.263445	Djones
10	Clear	0.11600	7.22	0.00	< 0.11	< 0.08	< 0.13	7.0	9.8	< 5.0	0.032000	1.8	0.0	1.0	1.0	5.0				0.248998	Djones
11	Clear	0.17600											0.0							0.236445	Djones
12	Clear	0.11500	7.35	0.00									0.0							0.220573	Djones
13	Clear	0.11200											0.0							0.264086	Gdickerson
14	Clear	0.15900									0.251000		0.0	1.0	1.0	5.0				0.244656	Jelliott
15	Clear	0.13300									0.267000		0.0	1.0	1.0	5.0				0.234973	Jelliott
16	Clear	0.13600									0.234000		0.0	1.0	1.0	5.0				0.205029	Gdickerson
17	Clear	0.11800	7.10	0.00							0.292000	7.8	0.0	1.0	1.0	1.5	< 0.4	< 0.2	< 0.3	0.259263	Djones
18	Clear	0.09100	7.00	0.00							0.200000		0.0	1.0	1.0	5.0				0.228804	Djones
19	Clear	0.16400									0.206000		0.0	1.0	1.0	5.0				0.248013	Djones
20	Clear	0.80400									0.215000		0.0	1.0	1.0	5.0				0.261027	Djones
21	Clear	0.57000									0.179000		0.0	1.0	1.0	5.0				0.240918	Djones
22	Clear	0.44900									0.168000		0.0	1.0	1.0	5.0				0.237676	Djones
23	Clear	0.16700									0.169000		0.0	1.0	1.0	5.0				0.257398	Ppitts
24	Clear	0.12400	7.03	0.00							0.167000	< 1.8	0.0	1.0	1.0	5.0				0.246243	Ppitts
25	Clear	0.12700									0.161000		0.0	1.0	1.0	5.0				0.247157	Gdickerson
26	Clear	0.11300	6.98	0.00							0.172000		0.0	1.0	1.0	5.0				0.235022	Gdickerson
27	Clear	0.44400									0.177000		0.0	1.0	1.0	5.0				0.267747	Djones
28	Clear	0.20500									0.143000		0.0	1.0	1.0	5.0				0.239942	Aphillips
29	Clear	0.13300									0.137000		0.0	1.0	1.0	5.0				0.236442	Aphillips
30	Clear	0.13400									0.139000		0.0	1.0	1.0	5.0				0.264391	Dbrenk
31	Clear	0.12600	7.05	0.00							0.184000		0.0	1.0	1.0	5.0				0.243355	Djones
Total		6.07100									4.244000									7.558744	
Average		0.19584	7.1	<0.10	0	0	0	7	10	0	0.169760	3	0.0	1.0	1.0	4.9	0	0	0	0.243830	
Minimum		0.09100	7.0	0.00	0	0	0	7	10	0	0.028000	1	0.0	1.0	1.0	1.5	0	0	0	0.205029	
Maximum		0.80400	7.4	<0.10	0	0	0	7	10	0	0.292000	8	0.0	1.0	1.0	5.0	0	0	0	0.267747	MOR 5-11-09

COMMENTS:

MARYLAND DEPARTMENT of the ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION, 1800 WASHINGTON BLVD, BALTIMORE, MD 21230

Operated By: Maryland Environmental Service
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Superintendent: Earle Villarreal
Additional Op's & cert # - Dorrance Jones 0763, Gary Dickerson 0782, James Elliott 3738, David Brenk 2754, Anthony Phillips 3001, Philip Pitts 2999

Certification # 1017

Month: August
Year: 2012

	Final Effluent outfall 001										Outfall 101						Outfall 201				
Date	Appearance	Discharge MGD	pH su	Cl2 mg/l	Tetrachloroethylene ug/l	1,1,1-Trichloroethane ug/l	Trichloroethene ug/l	BOD_5 mg/l	TSS mg/l	O&G mg/l	Flow MGD	Fecal mpn	Basin Inches	Alum Gpd	Hypochlorite Gpd	Post Cl2 mg/l	Tetrachloroethylene ug/l	1,1,1-Trichloroethane ug/l	Trichloroethene ug/l	Discharge mgd	Operator
1	Clear	0.13200									0.162000		0.0	1.0	1.0	5.0				0.244848	Djones
2	Clear	0.14300	7.04	0.00							0.126000		0.0	1.0	1.0	5.0				0.232374	Aphillips
3	Clear	0.13300									0.130000		0.0	1.0	1.0	5.0				0.246885	Aphillips
4	Clear	0.14300									0.121000		0.0	1.0	1.0	5.0				0.256325	Jelliott
5	Clear	0.13200									0.115000		0.0	1.0	1.0	5.0				0.235659	Jelliott
6	Clear	0.13400									0.195000		0.0	1.0	1.0	5.0				0.255677	Dbrenk
7	Clear	0.14900	7.22	0.00	0.31	0.26	0.34	5.0	18.6	< 5.0	0.189000	49.0	0.0	1.0	1.0	5.0				0.251715	Dbrenk
8	Clear	0.13900									0.161000		0.0	1.0	1.0	5.0				0.243420	Dbrenk
9	Clear	0.12800	7.83	0.00							0.170000		0.0	1.0	1.0	5.0				0.220983	Dbrenk
10	Clear	0.14400									0.201000		0.0	1.0	1.0	5.0				0.268479	Dbrenk
11	Clear	0.15600									0.183000		0.0	1.0	1.0	5.0				0.238262	Djones
12	Clear	0.13700									0.179000		0.0	1.0	1.0	5.0				0.237339	Djones
13	Clear	0.13500									0.193000		0.0	1.0	1.0	5.0				0.262115	Dbrenk
14	Clear	0.13300	7.55	0.00							0.203000	< 1.8	0.0	1.0	1.0	5.0				0.243109	Dbrenk
15	Clear	0.44600									0.203000		0.0	1.0	1.0	5.0				0.241944	Djones
16	Clear	0.20700	7.17	0.00							0.207000		0.0	1.0	1.0	5.0				0.240973	Djones
17	Clear	0.14800									0.217000		0.0	1.0	1.0	5.0				0.247537	Djones
18	Clear	0.15500									0.203000		0.0	1.0	1.0	5.0				0.246515	Ppitts
19	Clear	0.14000									0.193000		0.0	1.0	1.0	5.0				0.244200	Ppitts
20	Clear	0.14000									0.186000		0.0	1.0	1.0	5.0				0.237744	Djones
21	Clear	0.38300	7.45	0.00							0.227000	< 1.8	0.0	1.0	1.0	5.0				0.246588	Djones
22	Clear	0.14300									0.203000		0.0	1.0	1.0	5.0				0.240859	Djones
23	Clear	0.14600	7.20	0.00							0.215000		0.0	1.0	1.0	5.0				0.222258	Djones
24	Clear	0.14700									0.236000		0.0	1.0	1.0	5.0				0.243643	Djones
25	Clear	0.16900									0.207000		0.0	1.0	1.0	5.0				0.256190	Jelliott
26	Clear	0.19000									0.203000		0.0	1.0	1.0	5.0				0.233514	Jelliott
27	Clear	0.73900									0.229000		0.0	1.0	1.0	5.0				0.250302	Gdickerson
28	Clear	0.20800	7.27	0.00							0.194000	< 2.0	0.0	1.0	1.0	5.0				0.256860	Djones
29	Clear	0.14700									0.204000		0.0	1.0	1.0	5.0				0.239604	Djones
30	Clear	0.13100	7.55	0.00							0.208000		0.0	1.0	1.0	5.0				0.241245	Djones
31	Clear	0.13700									0.223000		0.0	1.0	1.0	5.0				0.243800	Djones
Total		5.71400									5.886000									7.570966	
Average		0.18432	7.4	<0.10	0	0	0	5	19	0	0.189871	13	0.0	1.0	1.0	5.0	#DIV/0!	#DIV/0!	######	0.244225	
Minimum		0.12800	7.0	0.00	0	0	0	5	19	0	0.115000	1	0.0	1.0	1.0	5.0	0	0	0	0.220983	
Maximum		0.73900	7.8	<0.10	0	0	0	5	19	0	0.236000	49	0.0	1.0	1.0	5.0	0	0	0	0.268479	MOR 5-11-09

COMMENTS: