

Quarterly Groundwater Monitoring Report

Prepared for
Black & Decker (U.S.) Inc.

Hampstead, Maryland

October 2009

Prepared by

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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 2009.

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 2009, the extraction wells were pumping at an average combined rate of approximately 168 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 2009 are included in Appendix B.

2.3 GROUNDWATER QUALITY DATA

For the reporting period of July through September 2009, approximately 19 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) (85.8 %) and tetrachloroethene (PCE) (14.2 %). Analytical results of the groundwater collected from the air stripper for the period of July through September 2009 are included in Appendix C.

A summary of the analytical results from the third quarter (August 2009) 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 2009
Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
July 2009	7,060,251
August 2009	6,837,783
September 2009	6,091,665

Table 2-2
Groundwater Elevation Data - 3rd Quarter 2009
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV.	TOTAL DEPTH	7/16/2009		8/18/2009		9/25/2009	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	NC	DRY	NC	DRY	NC
EW-2	849.21	110	74.11	775.10	76.47	772.74	75.81	773.40
EW-3	846.64	118	81.00	765.64	78.11	768.53	80.70	765.94
EW-4	858.01	97.5	PC	NC	PC	NC	PC	NC
EW-5	864.17	98	68.47	795.70	75.45	788.72	69.11	795.06
EW-6	831.98	115	103.43	728.55	102.85	729.13	102.87	729.11
EW-7	818.38	78	72.22	746.16	71.80	746.58	71.80	746.58
EW-8	811.13	98	93.34	717.79	91.75	719.38	93.41	717.72
EW-9	811.35	141	101.42	709.93	102.79	708.56	101.50	709.85
EW-10	807.74	INA	53.63	754.11	52.07	755.67	54.64	753.10
RFW-1A	864.37	78	50.70	813.67	50.81	813.56	50.74	813.63
RFW-1B	864.23	200	50.72	813.51	50.85	813.38	50.76	813.47
RFW-2A	857.41	35	14.26	843.15	16.58	840.83	16.02	841.39
RFW-2B	857.73	75	14.83	842.90	17.30	840.43	16.83	840.90
RFW-3B	839.21	153	35.88	803.33	35.43	803.78	35.52	803.69
RFW-4A	830.37	62	35.98	794.39	36.98	793.39	36.03	794.34
RFW-4B	830.37	120	36.06	794.31	37.02	793.35	36.21	794.16
RFW-5A	817.50	30	DRY	NC	DRY	NC	DRY	NC
RFW-6	785.04	120	4.22	780.82	4.33	780.71	4.19	780.85
RFW-7	805.14	29	7.90	797.24	7.17	797.97	7.67	797.47
RFW-8	860.07	56	DRY	NC	DRY	NC	DRY	NC
RFW-9	862.02	49	26.62	835.40	26.40	835.62	26.57	835.45
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	66.26	783.36	66.20	783.42	66.82	782.80
RFW-12B	844.87	264	48.92	795.95	50.30	794.57	50.61	794.26
RFW-13	849.11	150	64.83	784.28	65.72	783.39	65.94	783.17
RFW-14B	812.39	281	53.42	758.97	47.41	764.98	47.39	765.00
RFW-16	856.14	41	DRY	NC	DRY	NC	DRY	NC
RFW-17	834.66	60.5	27.56	807.10	26.87	807.79	27.41	807.25
RFW-20	842.49	142	35.89	806.60	34.98	807.51	34.77	807.72
RFW-21	832.65	102	23.06	809.59	22.65	810.00	22.61	810.04
PH-7	805.94	89	34.26	771.68	29.36	776.58	29.41	776.53
PH-9	814.94	98	57.41	757.53	55.40	759.54	56.00	758.94
PH-11	820.68	78	49.98	770.70	50.86	769.82	50.74	769.94
PH-12	828.35	87	52.80	775.55	53.51	774.84	53.21	775.14
B-3	803.02	83	9.86	793.16	10.41	792.61	9.74	793.28
Amoco	842.29	INA	NA	NC	NA	NC	NA	NC
Hamp. Town #22	804.96	INA	26.41	778.55	19.78	785.18	6.11	798.85
Pembroke #1	INA	INA	11.40	NC	12.52	NC	11.84	NC
Pembroke #2	INA	INA	Damaged	NC	Damaged	NC	Damaged	NC
N. Houcks. Rd.	INA	INA	9.80	NC	11.34	NC	9.60	NC
E. Century St.	INA	INA	19.49	NC	19.36	NC	19.20	NC
Lwr. Beckleys. Rd.	INA	INA	54.32	NC	54.64	NC	54.81	NC

NA - Not Available/Not Accessible

NC - Not Calculable

INA - Information not available

PC - Pump Cycles

Table 2-3
Effluent Characteristics Summary - 3rd Quarter 2009
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				July 2009	August 2009	September 2009	
001	FLOW	average	MGD	NA	0.146	0.160	0.152
		maximum	MGD	NA	0.199	0.607	0.196
	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
		quarterly average	mg/l	10	< 5	< 5	< 5
	pH	minimum	STD	6.0	6.20	6.40	6.30
		maximum	STD	8.5	8.10	7.50	7.00
BOD		mg/l	15	3.0	7.0	9.0	
TSS	maximum	mg/l	30	7.0	9.0	12.0	
	quarterly average	mg/l	20	7.0	9.0	12.0	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.285	0.238	0.239
		maximum	MGD	NA	0.375	0.326	0.286
	Fecal Coliform	MPN/100ml	200	2.0	1.0	1.0	
201 (Monitoring Point)	FLOW	average	MGD	NA	NR	NR	0.217
		maximum	MGD	NA	NR	NR	0.278
	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 2009
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	0.5 J	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	1 U	1 U	1 U	1 U
1,2-Dichloroethene (total)	ug/L	NS	3.5	2.4	1 U	1 U	1 U	5.9	19	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	400	120	950	170	11	4.7	8.6	1.1	1	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	61	3	16	6.9	16	8.6	53	110	98	1 U
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.

Table 2-4
Summary of Groundwater Analytical Results - August 2009
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	1.1	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	1 U	NS
1,2-Dichloroethene (total)	ug/L	1 U	1 U	1 U	1 U	3.7	1 U	1 U	3.7	NS	1 U	1 U	NS	16	NS
Chloroform	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-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	1 U	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	1.2	1.6	1 U	23	23	15	NS	2.2	4.4	NS	15	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	1 U	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	1.4	13	13	31	NS	2.4	1 U	NS	6.9	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.

Table 2-4
Summary of Groundwater Analytical Results - August 2009
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-11	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	0.5 U	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	1 U	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	0.5 U	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	1 U	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	0.5 U	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	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/L	NS	1 U	0.7 J	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	ug/L	NS	1 U	2.6	1 J	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	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	0.5 U	0.5 U	0.5 U	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	0.5 U	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	10 U	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	0.5 U	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	0.5 U	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	0.5 U	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	0.5 U	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	NS	8.8	440	3.5	NS	1 U	ABD	ABD	ABD	1 U	0.5 J	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	0.5 U	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	NS	1 U	1 U	1 U	NS	0.6 J	ABD	ABD	ABD	1 U	0.5 U	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	0.5 U	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	0.5 U	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	10 U	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	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	1 U	36	17	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	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	0.5 U	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	0.5 U	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	0.5 U	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	0.5 U	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.

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 RFW-12B 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 2009) 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 2009
Black & Decker
Hampstead, Maryland

Date	Event/Corrective Action
Jul-09	Alarm at air stripper due to a power outage, reset the system. System back online.
Aug-09	Alarm at air stripper due to high wet well, reset the system. System back online.
Aug-09	Alarm at air stripper due to a power outage, reset the system. System back online.
Sep '09	Alarm at air stripper due high column and blower failure. Reset everything, system back online.
Sep-09	Alarm at air stripper due to high wet well, reset the system. System back online.
Sep-09	Had to shut the air stripper down to repair a leak on the 1 1/2 bypass line. The air stripper was down 4-5 hours.
Sep-09	EW-7 is not pumping. The motor is not working. Order a new pump motor, pull old pump, bleach well and install a new pump motor. The well was down 3 days, the well is back online.
Sep-09	Alarm at air stripper due to a power outage, reset the system. System back online.

4. RECOMMENDATIONS

For the reporting period of July through September 2009, 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 2009)

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, Scott Steedman 0764, Gary Dickerson 0782, David Smith 9153

Permit Number: 02-DP-0022
Superintendent: Earle Villarreal

Certification # 1017

Month July
Year 2009

Date	Appearance	Discharge MGD	pH su	Cl2 mg/l	Final Effluent outfall 001						Outfall 101						Outfall 201				Operator
					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	
1	clear	0.17600			< 1.00	< 1.00	< 1.00	3.0	7.0	< 5.0	0.310000	< 1.8	0.0	10.0	2.0	5.0	< 1.0	< 1.0	< 1.0	0.241975	djones
2	clear	0.19900	6.60								0.348000		0.0	5.0	2.0	5.0				0.232913	djones
3	clear	0.17400									0.300000		0.0	20.0	2.0	5.0				0.219398	ssteedman
4	clear	0.18300									0.314000		0.0	5.0	2.0	5.0				0.233527	gdickerson
5	clear	0.18800									0.297000		0.0	5.0	2.0	5.0				0.246119	gdickerson
6	clear	0.16600									0.251000		0.0	10.0	2.0	5.0				0.232426	djones
7	clear	0.16800									0.260000		0.0	10.0	1.0	5.0				0.209927	djones
8	clear	0.16800	8.08	0.00							0.273000	< 1.8	0.0	5.0	1.0	5.0				0.224129	djones
9	clear	0.18600									0.302000		0.0	5.0	1.0	5.0				0.256313	gdickerson
10	clear	0.17700	6.75	0.00							0.318000		0.0	5.0	1.0	5.0				0.220363	djones
11	clear	0.17100									0.301000		0.0	5.0	2.0	5.0				0.229076	ssteedman
12	clear	0.16900									0.288000		0.0	5.0	2.0	5.0				0.242964	ssteedman
13	clear	0.16400									0.285000		0.0	3.0	1.0	5.0				0.230685	djones
14	clear	0.18600	8.13	0.00							0.323000		0.0	3.0	1.0	5.0				0.231334	djones
15	clear	0.15100									0.280000	< 1.8	0.0	3.0	1.0	5.0				0.214925	ssteedman
16	clear	0.17000	7.01	0.00							0.305000		0.0	3.0	1.0	5.0				0.222355	djones
17	clear	0.11700									0.330000		0.0	3.0	1.0	5.0				0.243125	djones
18	clear	0.10400									0.286000		0.0	4.0	1.0	5.0				0.220533	djones
19	clear	0.10900									0.292000		0.0	2.0	1.0	5.0				0.240588	djones
20	clear	0.09500									0.286000		0.0	2.0	1.0	5.0				0.216811	mvhitt
21	clear	0.11900	6.23	0.00							0.301000		0.0	1.0	2.0	5.0				0.251584	ssteedman
22	clear	0.10800									0.375000	< 1.8	0.0	1.0	1.0	5.0				0.225667	djones
23	clear	0.19900	7.04	0.00							0.286000		0.0	2.0	1.0	5.0				0.232952	ssteedman
24	clear	0.10300									0.193000		0.0	2.0	1.0	5.0				0.173729	ssteedman
25	clear	0.09900									0.212000		0.0	2.0	1.0	5.0				0.211948	dsmith
26	clear	0.13500									0.237000		0.0	2.0	2.0	5.0				0.220189	dsmith
27	clear	0.11700									0.229000		0.0	2.0	2.0	5.0				0.249888	ssteedman
28	clear	0.08900	6.87	0.00							0.274000		0.0	4.0	2.0	5.0				0.205242	djones
29	clear	0.12500									0.255000	2.0	0.0	3.0	2.0	3.2				0.223887	djones
30	clear	0.10800									0.257000		0.0	3.0	2.0	5.0				0.248819	djones
31	clear	0.11000	6.55	0.00							0.252000		0.0	2.0	2.0	5.0				0.206860	djones
Total		4.53300									8.820000									7.060251	
Average		0.14623	7.0	<0.10	0	0	0	3	7	0	0.284516	1	0.0	4.4	1.5	4.9	0	0	0	0.227750	
Minimum		0.08900	6.2	0.00	0	0	0	3	7	0	0.193000	1	0.0	1.0	1.0	3.2	0	0	0	0.173729	
Maximum		0.19900	8.1	<0.10	0	0	0	3	7	0	0.375000	2	0.0	20.0	2.0	5.0	0	0	0	0.256313	MOR 5-11-09

COMMENTS:

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

Operated By:
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259 Najoles Road, Millersville MD

Facility: BTR Capital Group
Address: 626 Hanover Pike, Hampstead Maryland

Additional Op's & cert # - Dorrance Jones 0763, Scott Steedman 0764, Dave Smith 9153, Martin Whitt 0666

Permit Number: 02-DP-0022
Superintendent: Earle Villarreal

Certification # 1017

Month: August
Year: 2009

Final Effluent outfall 001											Outfall 101					Outfall 201				Operator	
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
1	clear	0.10300									0.236000		0.0	3.0	2.0	5.0				0.219802	ssteedman
2	clear	0.10900									0.238000		0.0	5.0	2.0	5.0				0.224999	ssteedman
3	clear	0.09500									0.218000		0.0	2.0	2.0	5.0				0.219698	djones
4	clear	0.09400	6.43	0.00							0.214000		0.0	2.0	1.0	5.0				0.197899	djones
5	clear	0.10200			< 1.00	< 1.00	< 1.00	7.0	9.0	< 5.0	0.257000	< 1.8	0.0	2.0	1.0	5.0				0.229804	djones
6	clear	0.10300	6.91	0.00							0.218000		0.0	6.0	1.0	5.0				0.247020	djones
7	clear	0.10500									0.262000		0.0	10.0	1.0	5.0				0.224009	djones
8	clear	0.09000									0.219000		0.0	5.0	0.5	5.0				0.208460	djones
9	clear	0.09400									0.215000		0.0	5.0	0.5	5.0				0.225858	djones
10	clear	0.09100									0.208000		0.0	5.0	1.0	5.0				0.193415	mwhitt
11	clear	0.11000	7.41	0.00							0.256000		0.0	5.0	1.0	5.0				0.256485	ssteedman
12	clear	0.08800									0.207000	< 1.8	0.0	5.0	0.5	5.0				0.197088	djones
13	clear	0.17900	7.50	0.00							0.243000		0.0	5.0	0.5	5.0				0.248914	djones
14	clear	0.12800									0.199000		0.0	5.0	0.5	5.0				0.164465	djones
15	clear	0.15600									0.216000		0.0	3.0	0.5	5.0				0.219429	dsmith
16	clear	0.17600									0.252000		0.0	2.0	0.5	5.0				0.271871	dsmith
17	clear	0.14500									0.208000		0.0	5.0	0.5	5.0				0.205895	djones
18	clear	0.17500	7.45	0.00							0.216000		0.0	5.0	1.0	5.0				0.236588	djones
19	clear	0.12800									0.235000	< 1.8	0.0	10.0	1.0	5.0				0.192248	djones
20	clear	0.16400	7.20	0.00							0.273000		0.0	5.0	1.0	5.0				0.232673	djones
21	clear	0.13600									0.236000		0.0	5.0	1.0	5.0				0.171709	djones
22	clear	0.15900									0.266000		0.0	5.0	0.5	5.0				0.218306	dsmith
23	clear	0.19800									0.326000		0.0	10.0	0.5	5.0				0.278379	dsmith
24	clear	0.14000									0.244000		0.0	5.0	1.0	5.0				0.213824	djones
25	clear	0.15800	7.15	0.00							0.294000		0.0	5.0	1.0	5.0				0.221445	djones
26	clear	0.14500									0.274000	< 1.8	0.0	5.0	1.0	5.0				0.215700	djones
27	clear	0.60700	6.45	0.00							0.264000		0.0	5.0	1.0	5.0				0.221678	djones
28	clear	0.47400									0.186000		0.0	5.0	1.0	5.0				0.168616	djones
29	clear	0.19900									0.258000		0.0	5.0	1.0	5.0				0.249512	djones
30	clear	0.15600									0.232000		0.0	10.0	2.0	5.0				0.246533	djones
31	clear	0.15600									0.222000		0.0	5.0	2.0	5.0				0.215461	ssteedman
Total		4.96300									7.392000									6.837783	
Average		0.16010	7.1	<0.10	0	0	0	7	9	0	0.238452	1	0.0	5.2	1.0	5.0	#DIV/0!	#DIV/0!	#DIV/0!	0.220574	
Minimum		0.08800	6.4	0.00	0	0	0	7	9	0	0.186000	1	0.0	2.0	0.5	5.0	0	0	0	0.164465	
Maximum		0.60700	7.5	<0.10	0	0	0	7	9	0	0.326000	1	0.0	10.0	2.0	5.0	0	0	0	0.278379	MOR 5-11-09

COMMENTS: