

Quarterly Groundwater Monitoring Report

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

Hampstead, Maryland

April 2006

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 January through March 2006.

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 January through March 2006, the extraction wells were pumping at an average combined rate of approximately 182 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 January through March 2006 are included in Appendix B.

2.3 GROUNDWATER QUALITY DATA

For the reporting period of January through March 2006, approximately 37 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) (62 %) and tetrachloroethene (PCE) (38 %). Analytical results of the groundwater collected at the inlet to the air stripper for the period of January through March 2006 are included in Appendix C.

A summary of the analytical results from the first quarter (February 2006) groundwater sampling round of the extraction and monitor wells is included in Table 2-4. The complete

Table 2-1
Treatment System Pumping Records - 1st Quarter 2006
Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
January 2006	6,686,728
February 2006	6,248,297
March 2006	6,852,072

Table 2-2
Groundwater Elevation Data - 1st Quarter 2006
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV.	TOTAL DEPTH	1/19/2006		2/27/2006		3/17/2006	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	NA	DRY	NA	DRY	NA
EW-2	849.21	110	89.74	759.47	95.10	754.11	94.26	754.95
EW-3	846.64	118	94.61	752.03	97.31	749.33	96.86	749.78
EW-4	858.01	97.5	NA	NA	NA	NA	NA	NA
EW-5	864.17	98	84.40	779.77	84.88	779.29	85.10	779.07
EW-6	831.98	115	87.96	744.02	88.47	743.51	89.70	742.28
EW-7	818.38	78	44.97	773.41	47.31	771.07	47.83	770.55
EW-8	811.13	98	48.03	763.10	49.11	762.02	49.96	761.17
EW-9	811.35	141	101.40	709.95	100.05	711.30	101.30	710.05
EW-10	807.74	NA	44.03	763.71	45.87	761.87	45.69	762.05
RFW-1A	864.37	78	51.43	812.94	50.16	814.21	51.41	812.96
RFW-1B	864.23	200	51.46	812.77	50.24	813.99	50.46	813.77
RFW-2A	857.41	35	16.01	841.40	12.64	844.77	12.70	844.71
RFW-2B	857.73	75	16.43	841.30	13.28	844.45	13.21	844.52
RFW-3B	839.21	153	32.27	806.94	29.33	809.88	27.67	811.54
RFW-4A	830.37	62	37.33	793.04	36.28	794.09	36.29	794.08
RFW-4B	830.37	120	37.21	793.16	36.11	794.26	36.13	794.24
RFW-5A	817.50	30	DRY	NA	DRY	NA	DRY	NA
RFW-6	785.04	120	3.48	781.56	3.74	781.30	4.12	780.92
RFW-7	805.14	29	7.71	797.43	5.68	799.46	6.34	798.80
RFW-8	860.07	56	DRY	NA	DRY	NA	DRY	NA
RFW-9	862.02	49	25.64	836.38	24.76	837.26	25.03	836.99
RFW-10	852.06	58	DRY	NA	DRY	NA	DRY	NA
RFW-11A	849.32	72	NA	NA	NA	NA	NA	NA
RFW-11B	849.62	116	71.47	778.15	69.54	780.08	70.17	779.45
RFW-12B	844.87	264	54.30	790.57	53.86	791.01	53.61	791.26
RFW-13	849.11	150	61.40	787.71	62.60	786.51	62.47	786.64
RFW-14B	812.39	281	35.86	776.53	34.71	777.68	35.13	777.26
RFW-16	856.14	41	DRY	NA	DRY	NA	DRY	NA
RFW-17	834.66	60.5	27.60	807.06	25.83	808.83	25.92	808.74
RFW-20	842.49	142	31.99	810.50	33.71	808.78	33.37	809.12
RFW-21	832.65	102	22.50	810.15	21.20	811.45	21.03	811.62
PH-7	805.94	89	23.08	782.86	23.78	782.16	24.06	781.88
PH-9	814.94	98	37.46	777.48	38.11	776.83	38.30	776.64
PH-11	820.68	78	43.01	777.67	42.88	777.80	43.19	777.49
PH-12	828.35	87	43.29	785.06	43.35	785.00	43.43	784.92
B-3	803.02	83	NA	NA	NA	NA	NA	NA
Amoco	842.29	NA	NA	NA	NA	NA	NA	NA
Hamp. Town #22	804.96	NA	31.40	773.56	27.63	777.33	27.13	777.83
Pembroke #1	NA	NA	10.94	NA	NA	NA	10.98	NA
Pembroke #2	NA	NA	NA	NA	NA	NA	NA	NA
N. Houcks. Rd.	NA	NA	9.87	NA	NA	NA	10.73	NA
E. Century St.	NA	NA	27.40	NA	NA	NA	23.84	NA
Lwr. Beckleys. Rd.	NA	NA	55.49	NA	NA	NA	53.31	NA

NA - Not Available/Not Accessible

Table 2-3
Effluent Characteristics Summary - 1st Quarter 2006
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				January 2006	February 2006	March 2006	
001	FLOW	average	MGD	NA	0.246	0.250	0.181
		maximum	MGD	NA	0.487	0.630	0.247
	1,1,1-Trichloroethane	ug/l	5	< 5	< 5	< 5	
	Tetrachloroethylene	ug/l	5	< 5	< 5	< 5	
	Trichloroethylene	ug/l	5	< 5	< 5	< 5	
	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	NR	NR	< 5
	pH	minimum	STD	6.0	6.10	6.10	6.10
		maximum	STD	8.5	6.70	6.70	7.20
BOD		mg/l	15	< 2	< 2	< 2	
TSS	maximum	mg/l	30	< 2.5	3.5	2.8	
	quarterly average	mg/l	20	NR	NR	2.5	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.217	0.251	0.251
		maximum	MGD	NA	0.256	0.275	0.275
	Fecal Coliform	MPN/100ml	200	< 2	< 2	< 2	
201 (Monitoring Point)	FLOW	average	MGD	NA	0.216	0.215	0.221
		maximum	MGD	NA	0.248	0.239	0.247
	1,1,1-Trichloroethane	ug/l	NA	< 5	< 5	< 5	
	Tetrachloroethylene	ug/l	NA	< 5	< 5	< 5	
	Trichloroethylene	ug/l	NA	< 5	< 5	< 5	

DMR - Discharge Monitoring Report

NA - Not Applicable

NR - Not Reported

Table 2-4
 Summary of Groundwater Analytical Results - February 2006
 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
					(5)							
Chloromethane	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	ug/L	NS	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide	ug/L	NS	5 U	5 U	25 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	5 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	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene (total)	ug/L	NS	3.6	1.7	5 U	1 U	1 U	8	23	1.5	1.3	1 U
Chloroform	ug/L	NS	1 U	1 U	5 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	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	NS	5 U	5 U	25 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	5 U	1.2	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	ug/L	NS	1 U	1 U	5 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	5 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	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/L	NS	520	170	1200	260	11	7.2	12	2.2	2.2	1 U
Dibromochloromethane	ug/L	NS	1 U	1 U	5 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	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	ug/L	NS	1 U	1 U	5 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	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	NS	1 U	1 U	5 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	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	ug/L	NS	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	ug/L	NS	63	5	26	7.8	19	13	73	310	310	9.1
1,1,2,2-Tetrachloroethane	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	ug/L	NS	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

DUP = Duplicate sample
 NS = Not sampled
 (2.5) = Dilution factor.

U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification.
 J = Indicates an estimated value.
 B = Indicates that the analyte was found in the associated blank as well as in the sample.

Table 2-4
 Summary of Groundwater Analytical Results - February 2006
 Black & Decker
 Hampstead, Maryland

PARAMETER	Units	RFW-1A	RFW-1B	RFW-2A	RFW-2B	RFW-3B	RFW-4A	RFW-4B	RFW-4B (DUP)	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	5 U	1 U	NS	1 U	NS
Acetone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	1 U	5 U	NS	1 U	NS
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	1 U	5 U	NS	1 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	1.5	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	1.3	NS
1,2-Dichloroethene (total)	ug/L	1 U	1 U	1 U	1 U	9.3	1.2	4.5	4.4	NS	1.4	1 U	NS	14	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	1 U	5 U	NS	1 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	2.1	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	5 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	5 U	1 U	NS	1 U	NS
Trichloroethene	ug/L	1 U	1 U	1.3	2	1.2	41	13	13	NS	8.8	4.3	NS	22	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	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	1 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	1 U	NS
Tetrachloroethene	ug/L	1.2	1 U	1 U	1 U	4.7	40	37	36	NS	6.9	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

DUP = Duplicate sample
 NS = Not sampled
 (2.5) = Dilution factor.

U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification.
 J = Indicates an estimated value.
 B = Indicates that the analyte was found in the associated blank as well as in the sample.

Table 2-4
Summary of Groundwater Analytical Results - February 2006
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-11A	RFW-11B	RFW-12B	RFW-13	RFW-16	RFW-17	RFW-20	RFW-21	Town #22	Town #23	Leister Dairy	Leister Res. #1	Leister Res. #2	Trip Blank
Chloromethane	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Bromomethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U
Vinyl Chloride	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Chloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U
Methylene Chloride	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Acetone	ug/L	NS	5 U	5 U	5 U	NS	10 U	10 U	10 U	10 U	5 U	5 U	5 U	NS	5 U
Carbon Disulfide	ug/L	NS	5 U	5 U	5 U	NS	NA	NA	NA	NA	5 U	5 U	5 U	NS	5 U
1,1-Dichloroethene	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
1,1-Dichloroethane	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
1,2-Dichloroethene (total)	ug/L	NS	1 U	6	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Chloroform	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
1,2-Dichloroethane	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
2-Butanone	ug/L	NS	5 U	5 U	5 U	NS	10 U	10 U	10 U	10 U	5 U	5 U	5 U	NS	5 U
1,1,1-Trichloroethane	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Carbon Tetrachloride	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Bromodichloromethane	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
1,2-Dichloropropane	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
cis-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Trichloroethene	ug/L	NS	27	630	16	NS	1.1	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Dibromochloromethane	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
1,1,2-Trichloroethane	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Benzene	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Trans-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Bromoform	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
4-Methyl-2-pentanone	ug/L	NS	5 U	5 U	5 U	NS	10 U	10 U	10 U	10 U	5 U	5 U	5 U	NS	5 U
2-Hexanone	ug/L	NS	5 U	5 U	5 U	NS	10 U	10 U	10 U	10 U	5 U	5 U	5 U	NS	5 U
Tetrachloroethene	ug/L	NS	1 U	48	41	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
1,1,2,2-Tetrachloroethane	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Toluene	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Chlorobenzene	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Ethylbenzene	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Styrene	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U
Xylene (total)	ug/L	NS	1 U	1 U	1 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	1 U

DUP = Duplicate sample
 NS = Not sampled
 (2.5) = Dilution factor.

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

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 (January through March 2006) 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 - 1st Quarter 2006
Black & Decker
Hampstead, Maryland

Date	Event/Corrective Action
March 2006	The pump motor on EW - 5 shorted out. A new pump and motor were installed. The well was down for 6 days. The well is back online.

4. RECOMMENDATIONS

For the reporting period of January through March 2006, 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
(JANUARY - MARCH 2006)

MONTH / YEAR

JAN. 2006

**BLACK & DECKER
AIR STRIPPER # 2
OPERATING RECORD**

PAST MONTH READING

79636248

Date	Day	Time	Integ. Reading	GPD	Pump # 11	Pump # 12
1	S	1241	790 19024	↑	28083	281785
2	M			377850		
3	T	1240	79396878	261529	28083	28225
4	W	1235	79598407	204980	28107	28225
5	T	1235	79803387	184939	28131	28225
6	F	1050	79988326	↑	28153	28225
7	S					
8				598238		
9	M	1325	80586564	198429	28227	28225
10	T	1300	80784993	224230	28227	28249
11	W	1340	81009223	225454	28227	28274
12	T	1405	81234677	195841	28227	28298
13	F	1115	81430518	↑	28227	28319
14						
15				282892		
16	M	1255	82113410	242055	28227	28393
17	T	1610	82355465	201116	28253	28393
18	W	1250	82556581	239118	28275	28393
19	T	1440	82795699	↑	28301	28393
20	F					
21						
22				880854		
23	M	1340	83676553	222615	28346	28393
24	T	1340	83849168	208218	28396	28417
25	W	1205	84109386	243241	28396	28439
26	T	1420	84350627	171021	28396	28465
27	F	0845	84521648	↑	28396	28484
28						
29				705483		
30	M	1240	85227131	230269	28396	28560
31	T	1325	85457400	248356	28421	28560
Total				6686728		
Average				215701		

NEXT MONTH READING 85705754

DATE 2-1-06

Month / Year

Feb. 2006

Black & Decker
Air Stripper # 2
Operating Record

Past Month Reading

85457400

Date	Day	Time	Integ. Reading	GPD	Pump # 11	Pump # 12
1	W	1410	85705756	188059	28447	28560
2	T	1320	85893915	221887	28468	28560
3	F	1210	86115702	↑	28492	28560
4						
5						
6	M	1140	86782459	6666756 222833	28563	28560
7	T	1130	87005291	235867	28563	28584
8	W	1245	87241158	238400	28563	28609
9	T	1420	87479558	197484	28563	28635
10	F	1330	87677042	↑	28563	28656
11						
12						
13	M	1325	88368470	691428 230463	28563	28730
14	T	1405	88598933	207019	28588	28730
15	W	1215	88805952	235611	28610	28730
16	T	1330	89041563	217376	28635	28730
17	F	1245	89258939	↑	28658	28730
18						
19						
20	M	1230	89430652	671713 221039	28730	28730
21	T	1205	90151691	234918	28730	28753
22	W	1310	90386609	217825	28730	28778
23	T	1225	90604434	228846	28730	28801
24	F	1250	90833280	↑	28730	28826
25						
26						
27	M	1210	91503384	670109 238982	28730	28897
28	T	1340	91742371	211682	28756	28847
29						
30						
31						
Total				6248297		
Average				215459		

Next Month Reading 91954053

Date 3-1-06