

**QUARTERLY GROUNDWATER
MONITORING REPORT**

Prepared for
BLACK & DECKER (U.S.) INC.
Hampstead, Maryland

April 2005

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 is 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 CHARACTERIZATION

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 2005.

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. At the time the water level measurements were collected, the extraction wells were pumping at an average combined rate of approximately 167 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 2005 are included in Appendix B

2.3 GROUNDWATER QUALITY DATA

For the reporting period of January through March 2005, approximately 35 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) (70 %) and tetrachlorethene (PCE) (30 %). Analytical results of the groundwater collected at the inlet to the air stripper for the period of January through March 2005 are included in Appendix C.

Table 2-1
Treatment System Pumping Records - 1st Quarter 2005
Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
January 2005	7,326,458
February 2005	6,437,800
March 2005	7,353,275

Table 2-2
Groundwater Elevation Data - 1st Quarter 2005
Black & Decker
Hampstead, Maryland

WELL NO	TOC ELEV	TOTAL DEPTH	1/31/05		2/15/05		3/24/05	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	NA	DRY	NA	DRY	NA
EW-2	849.21	110	102.50	746.71	98.86	750.35	98.68	750.53
EW-3	846.64	118	93.20	753.44	87.84	758.80	89.14	757.50
EW-4	858.01	97.5	NA	NA	NA	NA	NA	NA
EW-5	864.17	98	88.47	775.70	88.89	775.28	90.02	774.15
EW-6	831.98	115	83.77	748.21	83.75	748.23	84.14	747.84
EW-7	818.38	78	41.71	776.67	39.45	778.93	40.23	778.15
EW-8	811.13	98	44.74	766.39	43.30	767.83	44.92	766.21
EW-9	811.35	141	99.87	711.48	93.10	718.25	97.67	713.68
EW-10	807.74	NA	41.79	765.95	35.83	771.91	40.43	767.31
RFW-1A	864.37	78	50.91	813.46	50.31	814.06	50.39	813.98
RFW-1B	864.23	200	50.97	813.26	50.38	813.85	50.41	813.82
RFW-2A	857.41	35	13.92	843.49	13.47	843.94	13.84	843.57
RFW-2B	857.73	75	14.06	843.67	14.09	843.64	14.51	843.22
RFW-3B	839.21	153	28.48	810.73	28.37	810.84	29.44	809.77
RFW-4A	830.37	62	37.67	792.70	37.19	793.18	37.84	792.53
RFW-4B	830.37	120	37.45	792.92	36.97	793.40	37.62	792.75
RFW-5A	817.50	30	DRY	NA	DRY	NA	DRY	NA
RFW-6	785.04	120	3.86	781.18	3.74	781.30	3.50	781.54
RFW-7	805.14	29	6.42	798.72	6.20	798.94	6.43	798.71
RFW-8	860.07	56	DRY	NA	DRY	NA	DRY	NA
RFW-9	862.02	49	25.06	836.96	24.95	837.07	25.37	836.65
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	71.33	778.29	71.28	778.34	71.83	777.79
RFW-12B	844.87	264	51.97	792.90	52.06	792.81	52.33	792.54
RFW-13	849.11	150	60.96	788.15	60.88	788.23	60.73	788.38
RFW-14B	812.39	281	34.43	777.96	33.81	778.58	34.03	778.36
RFW-16	856.14	41	DRY	NA	DRY	NA	DRY	NA
RFW-17	834.66	60.5	26.78	807.88	26.43	808.23	26.97	807.69
RFW-20	842.49	142	34.01	808.48	34.02	808.47	34.30	808.19
RFW-21	832.65	102	21.83	810.82	21.23	811.42	22.07	810.58
PH-7	805.94	89	19.71	786.23	18.42	787.52	18.57	787.37
PH-9	814.94	98	34.68	780.26	33.79	781.15	34.06	780.88
PH-11	820.68	78	43.06	777.62	42.30	778.38	42.39	778.29
PH-12	828.35	87	45.53	782.82	44.60	783.75	44.81	783.54
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	17.22	787.74	28.03	776.93	16.11	788.85
Pembroke #1	NA	NA	11.31	NA	11.63	NA	11.84	NA
Pembroke #2	NA	NA	NA	NA	NA	NA	NA	NA
N. Houcks. Rd.	NA	NA	9.17	NA	9.40	NA	9.69	NA
E. Century St.	NA	NA	12.53	NA	13.02	NA	12.91	NA
Lwr. Beckleys. Rd.	NA	NA	51.23	NA	51.08	NA	50.94	NA

NA - Not Available/Not Accessible

Table 2-3
Effluent Characteristics Summary - 1st Quarter 2005
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				January 2005	February 2005	March 2005	
001	FLOW	average	MGD	NA	0.256	0.171	0.217
		maximum	MGD	NA	1.468	0.244	0.835
	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	6.07	6.19	6.81
		maximum	STD	8.5	6.60	6.91	7.68
	BOD	mg/l	15	< 2	< 2	3.4	
TSS	maximum	mg/l	30	< 2.5	3.5	4.0	
	quarterly average	mg/l	20	NR	NR	3.3	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.305	0.294	0.297
		maximum	MGD	NA	0.338	0.311	0.349
	Fecal Coliform	MPN/100ml	200	< 2	< 2	< 2	
201 (Monitoring Point)	FLOW	average	MGD	NA	0.236	0.236	0.237
		maximum	MGD	NA	0.275	0.275	0.263
	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

A summary of the analytical results from the first quarter (February 2005) groundwater sampling round of the extraction and monitor wells is included in Table 2-4. The complete 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-2. The highest concentration of PCE was detected in the groundwater sample collected from extraction well EW-9. The remainder of VOCs present were detected at levels well below the federal Maximum Contaminant Levels (MCL).

Table 2-4
Summary of Groundwater Analytical Results - February 2005
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)		(5)	(2)				(2)	(2)	
Chloromethane	ug/L	NS	50 U	10 U	50 U	20 U	10 U	10 U	10 U	20 U	20 U	10 U
Bromomethane	ug/L	NS	50 U	10 U	50 U	20 U	10 U	10 U	10 U	20 U	20 U	10 U
Vinyl Chloride	ug/L	NS	50 U	10 U	50 U	20 U	10 U	10 U	10 U	20 U	20 U	10 U
Chloroethane	ug/L	NS	50 U	10 U	50 U	20 U	10 U	10 U	10 U	20 U	20 U	10 U
Methylene Chloride	ug/L	NS	36 B	3 JB	29 B	10 B	3 JB	3 JB	3 JB	14 B	8 JB	3 JB
Acetone	ug/L	NS	50 U	14	50 U	8 J	10 U	10 U	6 J	47	7 J	2 J
Carbon Disulfide	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
1,1-Dichloroethene	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
1,1-Dichloroethane	ug/L	NS	25 U	5 U	25 U	10 U	5 U	1 J	5 U	10 U	10 U	5 U
1,2-Dichloroethene (total)	ug/L	NS	25 U	2 J	25 U	10 U	5 U	8	18	10 U	10 U	5 U
Chloroform	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
1,2-Dichloroethane	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
2-Butanone	ug/L	NS	50 U	5 U	50 U	20 U	10 U	10 U	10 U	17 J	20 U	10 U
1,1,1-Trichloroethane	ug/L	NS	25 U	10 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Carbon Tetrachloride	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Bromodichloromethane	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
1,2-Dichloropropane	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
cis-1,3-Dichloropropene	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Trichloroethene	ug/L	NS	690	180	850	260	14	7	10	2 J	2 J	5 U
Dibromochloromethane	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
1,1,2-Trichloroethane	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Benzene	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Trans-1,3-Dichloropropene	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Bromoform	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
4-Methyl-2-pentanone	ug/L	NS	50 U	5 U	50 U	20 U	10 U	10 U	10 U	20 U	20 U	10 U
2-Hexanone	ug/L	NS	50 U	10 U	50 U	20 U	10 U	10 U	10 U	3 J	20 U	10 U
Tetrachloroethene	ug/L	NS	83	10 U	27	10 J	31	12	62	250	240	10
1,1,2,2-Tetrachloroethane	ug/L	NS	25 U	6	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Toluene	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Chlorobenzene	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Ethylbenzene	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Styrene	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 U
Xylene (total)	ug/L	NS	25 U	5 U	25 U	10 U	5 U	5 U	5 U	10 U	10 U	5 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 2005
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	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS
Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS
Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS
Methylene Chloride	ug/L	4 JB	6 B	5 B	4 JB	4 JB	3 JB	3 JB	3 JB	NS	4 JB	3 JB	NS	4 JB	NS
Acetone	ug/L	2 JB	21 B	19 B	4 JB	10 JB	7 JB	10 U	10 U	NS	6 JB	3 JB	NS	5 JB	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	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
1,1-Dichloroethane	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 J	NS
1,2-Dichloroethene (total)	ug/L	5 U	5 U	5 U	5 U	12	2 J	2 J	7	NS	2 J	2 J	NS	9	NS
Chloroform	ug/L	5 U	5 U	5 U	5 U	5 U	1 J	1 J	5 U	NS	5 U	5 U	NS	5 U	NS
1,2-Dichloroethane	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
2-Butanone	ug/L	10 U	5 J	4 J	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS
1,1,1-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U	NS	5 U	5 U	NS	2 J	NS
Carbon Tetrachloride	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
Bromodichloromethane	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
1,2-Dichloropropane	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
cis-1,3-Dichloropropene	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
Trichloroethene	ug/L	5 U	5 U	2 J	3 J	10	55	54	9	NS	10	7	NS	15	NS
Dibromochloromethane	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
1,1,2-Trichloroethane	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
Benzene	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
Trans-1,3-Dichloropropene	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
Bromoform	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
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS
Tetrachloroethene	ug/L	5 U	5 U	5 U	5 U	10	64	66	55	NS	7	5 U	NS	5 J	NS
1,1,2,2-Tetrachloroethane	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
Toluene	ug/L	1 JB	1 JB	1 JB	1 JB	1 JB	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
Chlorobenzene	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
Ethylbenzene	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
Styrene	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
Xylene (total)	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

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 2005
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-11A	RFW-11B	RFW-12B (5)	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	10 U	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	NS	10 U	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	NS	10 U	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	NS	10 U	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	NS	3 JB	19 JB	6 B	NS	3 JB	3 JB	3 JB	4 JB	4 JB	6 B	4 JB	6 B	10 B
Acetone	ug/L	NS	10 U	50 U	8 J	NS	10 U	7 J	3 J	3 J	10 U	10 U	2 J	10 U	7 J
Carbon Disulfide	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	NS	5 U	8 J	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	NS	5 U	25 U	5 U	NS	1 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	NS	10 U	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	NS	35	470	20	NS	5 U	2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	NS	10 U	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	10 U	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	5 U	38	58	NS	5 U	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	NS	5 U	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 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 qu
J = Indicates an estimated value.
B = Indicates that the analyte was found in the associated blank as well as in the sample.

3. OPERATION AND MAINTENANCE OF THE TREATMENT SYSTEM

A summary of the maintenance activities that were undertaken with the extraction and treatment system during the reporting period (January through March 2005) 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 2005
Black & Decker
Hampstead, Maryland

Date	Event/Corrective Action
Jan-05	Replaced power pack on the Moore controller in the control panel. Installed autodialer on the alarm system.
Feb-05	The integrators on wells EW-9 & 10 were repaired. EW-2's flow meter was repaired.

4. RECOMMENDATIONS

For the reporting period of January through March 2005, 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 2005)**

Month / Year

Jan. 05

Black & Decker
Air Stripper # 2
Operating Record

Past Month Reading

42201308

1-24-05* out → * 1-20-05 Micro-Tech here. All totals returned to zero.

Date	Day	Time	Integ. Reading	GPD	Pump # 11	Pump # 12
1	S	12 15	42429433	216071	23711	23793
2	S	10 15	42645504	250707	23733	23793
3	M	1230	42896211	241679	23754	23793
4	T	1205	43137890	223068	23783	23793
5	W	1040	43360958	259452	23783	23816
6	T	1305	43620910	233757	23783	23842
7	F	1245	43854667	↑	23783	23866
8						
9				696848		
10	M	1125	44551515	241861	23783	23936
11	T	1150	44793376	229388	23808	23936
12	W	1120	45022764	233357	23831	23936
13	T	1105	45256121	243153	23855	23936
14	F	1145	45499274	2334521	23880	23936
15	S	9:00	45732795	2401144	23902	23936
16	S	1200	45972979	275278	23928	23936
17	M	1600	46249257	209664	23956	23936
18	T	1310	46457921	220101	23977	23936
19	W	1135	46678022	223507	23977	23959
20	T	1020	46901529	239331	23977	23982
21	F	1240	239331	↑	24002	23982
22						
23				679704		
24	M	0830	919035	268920	24070	23982
25	T	1140	248793	237727	24072	24006
26	W	1135	486520	230501	24072	24030
27	T	1055	719021	229670	24072	24053
28	F	1005	946691	↑	24072	24074
29						
30				727411		
31	M	1130	1674102	241098	24072	24150
Total				7326458		
Average				236337		

Next Month Reading 1915200

Date Feb. 1

Month / Year

Feb. 2005

Black & Decker
Air Stripper # 2
Operating Record

Past Month Reading

1674102

... increased. 199000 was used. 199000 was used. 199000 was used.

Date	Day	Time	Integ. Reading	GPD	Pump # 11	Pump # 12
1	T	1150	1415200	214814	24097	24150
2	W	0940	2130014	253224	24119	24150
3	T	1110	2383238	242122	24144	24150
4	F	1140	2625360	↑	24169	24150
5						
6						
7	M	1120	3334876	709516		
8	T	1345	3596214	261338	24240	24150
9	W	1325	3831833	235619	24240	24176
10	T	1250	4062487	231154	24240	24200
11	F	1315	4305384	242397	24240	24223
12				↑	24240	24248
13						
14	M	1100	4445107	689723		
15	T	1245	5249112	254005	24240	24317
16	W	1110	5469875	220763	24266	24317
17	T	1225	5720305	250430	24288	24317
18	F	1200	5953103	232798	24314	24317
19				↑	24337	24317
20						
21	M	1205	6666095	712992		
22	T	1250	6911886	245711	24409	24317
23	W	1100	7130407	218601	24409	24342
24	T	1220	7382267	251860	24409	24364
25	F	1125	7609698	227431	24409	24390
26				↑	24409	24413
27						
28	M	1025	8312948	703250		
29				258607	24409	24484
30						
31						
Total				6437800		
Average				221993		

Next Month Reading 8571555

Date 3-1-05

Month / Year

Mar. 2005

Black & Decker
Air Stripper # 2
Operating Record

Past Month Reading

831 2948

Date	Day	Time	Integ. Reading	GPD	Pump # 11	Pump # 12
1	T	1225	86715550	241398	24435	24484
2	W	1245	88122953	263276	24460	24484
3	T	1520	9076229	201309	24486	24484
4	F	1145	9277538	↑	24507	24484
5						
6				729887		
7	M	1320	10007425	228394	24580	24484
8	T	1230	10235819	223851	24580	24507
9	W	1100	10469670	246168	24580	24529
10	T	1150	10705838	245079	24580	24554
11	F	1235	10950917	↑	24580	24579
12						
13				723132		
14	M	1335	11674049	226949	24580	24652
15	T	1235	11900998	226592	24603	24652
16	W	1120	12127590	229393	24626	24652
17	T	1045	12356983	252906	24650	24652
18	F	1220	12609889	↑	24675	24652
19						
20				662036		
21	M	0715	13271925	252295	24742	24652
22	T	0845	13524220	252801	24742	24677
23	W	1025	13777021	215931	24742	24703
24	T	0815	13992452	↑	24742	24725
25	F					
26						
27				960933		
28	M	0910	14453885	237763	24742	24822
29	T	0405	15191648	255580	24766	24822
30	W	1045	15447228	255764	24792	24822
31	T	1230	15703027	221803	24817	24822
Total				7353275		
Average				237202		

Next Month Reading 1592 4830

Date 4-1-05

**APPENDIX B
DISCHARGE MONITORING REPORTS
(JANUARY - MARCH 2005)**
