

QUARTERLY GROUNDWATER MONITORING REPORT

Prepared for

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

OCTOBER 1995

Prepared by

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SECTION 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; and 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. Final versions of the documents are to become part of the Administrative Record for the site which is to be maintained at a public repository in the town of Hampstead.

SECTION 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 1995.

Pumping records showing the total gallons pumped per month of treatment system operation are presented in Table 2-1.

Water levels for wells included in the water level monitoring plan are presented in Table 2-2. At the time the data was collected, the extraction wells were pumping at a combined rate of approximately 153 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 1995 are included in Appendix A.

2.3 GROUNDWATER QUALITY DATA

A summary of groundwater analytical results for the third quarter of 1995 is included in Table 2-4. Analytical data packages for the third quarter of 1995 are included in Appendix B.

For the reporting period of July through September 1995, approximately 337 lbs of total volatile organic compounds (VOCs) were removed from the groundwater. In general, the total VOCs

**Table 2-1
Treatment System Pumping Records**

**Black & Decker
Hampstead, Maryland**

Date	Water pumped (gallons)
July 1995	7,103,793
August 1995	7,044,689
September 1995	6,639,325

Table 2-2
Groundwater Elevation Data
Black and Decker
Hampstead, Maryland

WELL NO.	TOC ELEV	TOTAL DEPTH	07/28/95		08/21/95		09/29/95	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	NA	-	NA	-	NA	-
EW-2	849.21	110	84.13	765.08	80.58	768.63	86.13	763.08
EW-3	846.64	118	68.11	778.53	66.09	780.55	65.33	781.31
EW-4	858.01	97.5	NA	-	NA	-	NA	-
EW-5	864.17	98	81.53	782.64	79.74	784.43	81.36	782.81
EW-6	831.98	115	69.95	762.03	66.62	765.36	67.93	764.05
EW-7	818.38	78	40.78	777.60	41.47	776.91	43.32	775.06
EW-8	811.13	98	46.12	765.01	47.62	763.51	50.32	760.81
EW-9	811.35	141	78.87	732.48	83.18	728.17	86.16	725.19
EW-10	807.74	NA	49.64	758.10	50.58	757.16	52.41	755.33
RFW-1A	864.37	78	51.44	812.93	51.46	812.91	52.21	812.16
RFW-1B	864.23	200	51.45	812.78	51.41	812.82	52.20	812.03
RFW-2A	857.41	35	16.97	840.44	17.29	840.12	19.49	837.92
RFW-2B	857.73	75	17.56	840.17	17.87	839.86	20.10	837.63
RFW-3B	839.21	153	32.89	806.32	33.71	805.50	34.70	804.51
RFW-4A	830.37	62	37.74	792.63	36.98	793.39	37.93	792.44
RFW-4B	830.37	120	37.63	792.74	36.86	793.51	37.82	792.55
RFW-5A	817.50	30	DRY	-	DRY	-	DRY	-
RFW-6	785.04	120	2.97	782.07	3.08	781.96	3.84	781.20
RFW-7	805.14	29	7.98	797.16	7.12	798.02	7.83	797.31
RFW-8	860.07	53	DRY	-	DRY	-	DRY	-
RFW-9	858.21	49	26.51	831.70	26.42	831.79	27.96	830.25
RFW-10	852.06	58	56.92	795.14	57.33	794.73	57.83	794.23
RFW-11A	849.32	72	61.35	787.97	61.58	787.74	61.26	788.06
RFW-11B	849.62	116	64.71	784.91	64.88	784.74	64.32	785.30
RFW-12B	844.87	264	50.49	794.38	50.80	794.07	51.19	793.68
RFW-13	849.11	150	60.84	788.27	60.17	788.94	58.36	790.75
RFW-14B	812.39	281	37.80	774.59	39.28	773.11	40.62	771.77
RFW-16	856.14	41	DRY	-	DRY	-	DRY	-
RFW-17	834.66	60.5	26.53	808.13	26.66	808.00	27.13	807.53
RFW-18	843.67	50	5.17	838.50	5.30	838.37	6.03	837.64
RFW-19	858.28	60	7.86	850.42	7.53	850.75	8.42	849.86
PH-7	805.94	89	29.87	776.07	31.20	774.74	33.08	772.86
PH-9	814.94	98	34.11	780.83	35.84	779.10	37.63	777.31
PH-11	820.68	78	42.49	778.19	41.17	779.51	42.01	778.67
PH-12	828.35	87	44.44	783.91	45.13	783.22	46.08	782.27
B-2	807.68	100	5.61	802.07	6.46	801.22	7.58	800.10
B-3	803.02	83	7.64	795.38	7.79	795.23	8.43	794.59
AMOCO	842.29	NA	24.39	817.90	24.53	817.76	25.01	817.28
HAMP-22	NA	NA	0.75	-	2.11	-	0.71	-
PEMBROKE 1	NA	NA	NA	-	NA	-	NA	-
PEMBROKE 2	NA	NA	NA	-	NA	-	NA	-
N. Houchs	NA	NA	NA	-	NA	-	NA	-
E. Century	NA	NA	11.23	-	11.06	-	11.73	-
E. Beckley	NA	NA	53.57	-	53.70	-	56.24	-

NA = Not Available / Not Accessible

Table 2-3

Effluent Characteristics Summary
 Black & Decker
 Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				July 1995	August 1995	September 1995	
001	FLOW	average	MGD	NA	*	0.2587	0.1505
		maximum	MGD	NA	*	1.0553	0.4393
	1,1,1-Trichloroethane	ug/l	5	*	ND	ND	
	Tetrachloroethylene	ug/l	5	*	ND	ND	
	Trichloroethylene	ug/l	5	*	ND	ND	
	Total Residual Chlorine	mg/l	<0.1	*	<0.1	<0.1	
	Oil & Grease	mg/l	15	*	ND	ND	
	pH	minimum	STD	6.0	*	6.71	6.49
		maximum	STD	8.5	*	8.07	7.45
	BOD	mg/l	15	*	6	3	
TSS	average	mg/l	20	*			
	maximum	mg/l	30	*	22	<2	
101 (Monitoring Point)	FLOW	average	MGD	NA	*	0.411	0.498
		maximum	MGD	NA	*	0.519	0.524
	Fecal Coliform	PN/100m	200	*	ND	ND	
201 (Monitoring Point)	FLOW	average	MGD	NA	0.2292	0.2272	0.2213
		maximum	MGD	NA	0.2415	0.2393	0.2332
	1,1,1-Trichloroethane	ug/l	NA	ND	ND	ND	
	Tetrachloroethylene	ug/l	NA	ND	ND	ND	
	Trichloroethylene	ug/l	NA	ND	ND	ND	

NA = Not Applicable

* = No flow at Outfall 001 during month of July;

-- = Not Sampled

No flow at Outfall 101 during month of July.

ND = Not Detected

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Table 2-4
 Summary of Groundwater Analytical Results -August 1995
 Black & Decker
 Hampstead, Maryland

PARAMETER	Units	EW-1	EW-2 (50)	EW-3 (25)	EW-4 (100)	EW-5 (25)	EW-6	EW-7	EW-8	EW-9 (10)	EW-10 (2.5)	EW-10 (DUP.) (2.5)
Chloromethane	ug/L	NS	500 U	250 U	1000 U	250 U	10 U	10 U	10 U	100 U	25 U	25 U
Bromomethane	ug/L	NS	500 U	250 U	1000 U	250 U	10 U	10 U	10 U	100 U	25 U	25 U
Vinyl Chloride	ug/L	NS	500 U	250 U	1000 U	250 U	10 U	10 U	10 U	100 U	25 U	25 U
Chloroethane	ug/L	NS	500 U	250 U	1000 U	250 U	10 U	10 U	10 U	100 U	25 U	25 U
Methylene Chloride	ug/L	NS	160 JB	120 U	480 JB	120 U	3 JB	4 JB	5 U	32 JB	3 JB	12 U
Acetone	ug/L	NS	500 U	250 U	1000 U	250 U	10 U	10 U	10 U	100 U	25 U	25 U
Carbon Disulfide	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
1,1-Dichloroethene	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
1,1-Dichloroethane	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
1,2-Dichloroethene (total)	ug/L	NS	250 U	120 U	500 U	120 U	3 J	23	39	11 J	12 U	12 U
Chloroform	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
1,2-Dichloroethane	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
2-Butanone	ug/L	NS	500 U	250 U	1000 U	250 U	10 U	10 U	10 U	100 U	25 U	25 U
1,1,1-Trichloroethane	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Carbon Tetrachloride	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Vinyl Acetate	ug/L	NS	500 U	250 U	1000 U	250 U	10 U	10 U	10 U	100 U	25 U	25 U
Bromodichloromethane	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
1,2-Dichloropropane	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
cis-1,3-Dichloropropene	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Trichloroethene	ug/L	NS	6300	2400	11000	4600	16	29	20	24 J	12 U	12 U
Dibromochloromethane	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
1,1,2-Trichloroethane	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Benzene	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Trans-1,3-Dichloropropene	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Bromoform	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
4-Methyl-2-pentanone	ug/L	NS	500 U	250 U	1000 U	250 U	10 U	10 U	10 U	100 U	25 U	25 U
2-Hexanone	ug/L	NS	500 U	250 U	1000 U	250 U	10 U	10 U	10 U	100 U	25 U	25 U
Tetrachloroethene	ug/L	NS	130 J	51 J	280 J	91 J	110	77	230	1600	350	350
1,1,2,2-Tetrachloroethane	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Toluene	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Chlorobenzene	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Ethylbenzene	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Styrene	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U
Xylene (total)	ug/L	NS	250 U	120 U	500 U	120 U	5 U	5 U	5 U	50 U	12 U	12 U

(2.5) = Dilution factor.
 NS = NOT SAMPLED

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Table 2-4 (Continued)
 Summary of Groundwater Analytical Results -August 1995
 Black & Decker
 Hampstead, Maryland

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PARAMETER	Units	RFW-1A	RFW-1B	RFW-2A	RFW-2B	RFW-4A (2.5)	RFW-4A (DUP.) (2.5)	RFW-4B (2)	RFW-5A	RFW-6
Chloromethane	ug/L	10 U	10 U	10 U	10 U	25 U	25 U	20 U	NS	10 U
Bromomethane	ug/L	10 U	10 U	10 U	10 U	25 U	25 U	20 U	NS	10 U
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	25 U	25 U	20 U	NS	10 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	25 U	25 U	20 U	NS	10 U
Methylene Chloride	ug/L	4 JB	5 U	5 U	5 U	17 B	25 B	11 B	NS	5 U
Acetone	ug/L	10 U	10 U	10 U	10 U	25 U	25 U	20 U	NS	10 U
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
1,1-Dichloroethene	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
1,1-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
1,2-Dichloroethene (total)	ug/L	5 U	5 U	5 U	5 U	8 J	7 J	9 J	NS	9
Chloroform	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
1,2-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
2-Butanone	ug/L	10 U	10 U	10 U	10 U	25 U	25 U	20 U	NS	10 U
1,1,1-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Carbon Tetrachloride	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Vinyl Acetate	ug/L	10 U	10 U	10 U	10 U	25 U	25 U	20 U	NS	10 U
Bromodichloromethane	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
1,2-Dichloropropane	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Trichloroethene	ug/L	5 U	5 U	4 J	5 U	220	230	83	NS	71
Dibromochloromethane	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
1,1,2-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Benzene	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	1 J
Trans-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Bromoform	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	25 U	25 U	20 U	NS	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	25 U	25 U	20 U	NS	10 U
Tetrachloroethene	ug/L	5 U	5 U	5 U	5 U	350	370	190	NS	62
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Toluene	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Chlorobenzene	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Styrene	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U
Xylene (total)	ug/L	5 U	5 U	5 U	5 U	12 U	12 U	10 U	NS	5 U

(2.5) = Dilution factor.
 NS = NOT SAMPLED

Table 2-4 (Continued)
Summary of Groundwater Analytical Results -August 1995
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-7	RFW-8	RFW-9	RFW-10 (50)	RFW-11A	RFW-11B	RFW-12B	RFW-13	RFW-16	RFW-17
Chloromethane	ug/L	10 U	NS	10 U	500 U	10 U	10 U	10 U	10 U	NS	10 U
Bromomethane	ug/L	10 U	NS	10 U	500 U	10 U	10 U	10 U	10 U	NS	10 U
Vinyl Chloride	ug/L	10 U	NS	10 U	500 U	10 U	10 U	10 U	10 U	NS	10 U
Chloroethane	ug/L	10 U	NS	10 U	500 U	10 U	10 U	10 U	10 U	NS	10 U
Methylene Chloride	ug/L	1 J	NS	5 U	370 B	5 U	6 B	6 B	5 U	NS	5 U
Acetone	ug/L	10 U	NS	10 U	500 U	10 U	10 U	10 U	10 U	NS	10 U
Carbon Disulfide	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
1,1-Dichloroethene	ug/L	5 U	NS	5 U	250 U	5 U	5 U	2 J	5 U	NS	5 U
1,1-Dichloroethane	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloroethene (total)	ug/L	3 J	NS	8	250 U	5 U	5 U	5 U	5 U	NS	5 U
Chloroform	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloroethane	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
2-Butanone	ug/L	10 U	NS	10 U	500 U	10 U	10 U	10 U	10 U	NS	10 U
1,1,1-Trichloroethane	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Carbon Tetrachloride	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Vinyl Acetate	ug/L	10 U	NS	10 U	500 U	10 U	10 U	10 U	10 U	NS	10 U
Bromodichloromethane	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloropropane	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
cis-1,3-Dichloropropene	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Trichloroethene	ug/L	27	NS	40	5800	100	55	4600	6	NS	5 U
Dibromochloromethane	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
1,1,2-Trichloroethane	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Benzene	ug/L	5 U	NS	3 J	190 J	5 U	5 U	5 U	5 U	NS	5 U
Trans-1,3-Dichloropropene	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Bromoform	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
4-Methyl-2-pentanone	ug/L	10 U	NS	10 U	500 U	10 U	10 U	10 U	10 U	NS	10 U
2-Hexanone	ug/L	10 U	NS	10 U	500 U	10 U	10 U	10 U	10 U	NS	10 U
Tetrachloroethene	ug/L	1 J	NS	16	190 J	2 J	5 U	100	61	NS	5 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Toluene	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Chlorobenzene	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Ethylbenzene	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Styrene	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U
Xylene (total)	ug/L	5 U	NS	5 U	250 U	5 U	5 U	5 U	5 U	NS	5 U

(2.5) = Dilution factor.

NS = NOT SAMPLED

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Table 2-4 (Continued)
 Summary of Groundwater Analytical Results -August 1995
 Black & Decker
 Hampstead, Maryland

PARAMETER	Units	RFW-18	RFW-19	TOWN #22	TOWN #23	LEISTER DAIRY	LEISTER RES #1	LEISTER RES #2	FIELD BLANK	TRIP BLANK
Chloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	5 U	7 B	5 U	5 U	2 JB	1 JB	2 JB	3 JB	7 B
Acetone	ug/L	10 U	6 JB	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	ug/L	5 U	5 U	5 U	5 U	6	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	5 U	5 U	5 U	5 U	6	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

(2.5) = Dilution factor.
 NS = NOT SAMPLED

2-8

were comprised of trichloroethene (TCE) (90%), tetrachlorethene (PCE) (9%), and a small percentage of 1,2-dichloroethene and 1,1,1-trichloroethane.

In general, the VOCs detected in the highest concentrations were TCE and PCE. Those compounds detected at lower concentrations are 1,2-dichloroethene, 1,1,1-trichloroethane, 1,1-dichloroethene, and 1,1,2-trichloroethane. The remainder of VOCs present were detected at levels well below the Federal Maximum Concentration Levels (MCL).

As found in earlier sampling events at the Black & Decker facility, the highest concentrations of TCE were found on the eastern half of the Black & Decker facility in monitor well RFW-16. The highest concentrations of PCE were found in the vicinity of former production well 7 (now EW-10) and recovery well EW-9.

SECTION 3
OPERATION AND MAINTENANCE OF THE TREATMENT SYSTEM

No maintenance activities were undertaken at the extraction and treatment system during the reporting period of July through September 1995.

SECTION 4
RECOMMENDATIONS

For the reporting period of July through September 1995, the treatment system continued to create a hydraulic boundary preventing off-site migration of groundwater. Operation of the extraction system as currently configured will continue, adjusting pumping rates as necessary according to the amount of groundwater recharge. Operation of the treatment system as currently configured will also continue, because the treatment system is fully effective in removing VOCs from the extracted groundwater.

APPENDIX A

**JULY - SEPTEMBER 1995
DISCHARGE MONITORING REPORTS**

PERMITTEE NAME/ADDRESS (Include Facility Name and Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

Approved. No. 2040-004 Approval expires 9-30-85

NAME **BLACK & DECKER (U.S.) INC.**
 ADDRESS **826 HANOVER PIKE**
HAMPSTEAD, MARYLAND 21074
 FACILITY _____
 LOCATION **CARROLL COUNTY**

(17-18) 93-DP-0022 PERMIT NUMBER	(17-19) 001 DISCHARGE NUMBER
MONITORING PERIOD	
FROM	TO
YEAR MO DAY 95 07 01 <small>(20-21) (22-23) (24-25)</small>	YEAR MO DAY 95 07 31 <small>(26-27) (28-29) (30-31)</small>

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT			MGD							
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT								CONTINUOUS/MEASURED
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT							ppb			
	PERMIT REQUIREMENT						5			1/MONTH	GRAB
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT							ppb			
	PERMIT REQUIREMENT						5			1/MONTH	GRAB
TRICHLOROETHYLENE	SAMPLE MEASUREMENT							ppb			
	PERMIT REQUIREMENT						5			1/MONTH	GRAB
TOTAL RESIDUAL CHLORINE	SAMPLE MEASUREMENT							mg/l			
	PERMIT REQUIREMENT						<0.1			1/MONTH	GRAB
OIL & GREASE	SAMPLE MEASUREMENT							mg/l			
	PERMIT REQUIREMENT					10	15			1/MONTH	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 19 USC 1001 AND 33 USC 1310 (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)				TELEPHONE		DATE			
LaVere N. Grimes Facilities Manager						410-239-5555		95	08	15	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DA	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No flow at Outfall 001 for entire month of July.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **BLACK & DECKER (U.S.) INC.**
 ADDRESS **626 HANOVER PIKE**
HAMPSTEAD, MARYLAND 21074
 FACILITY
 LOCATION **CARROLL COUNTY**

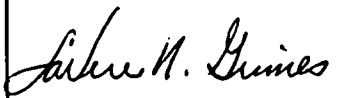
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

Form Approved
 OMD 7-84-004
 Approval expires 9-30-85

93-DP-0022 PERMIT NUMBER	001 DISCHARGE NUMBER												
MONITORING PERIOD													
FROM	TO												
<table border="1"> <tr><th>YEAR</th><th>MO</th><th>DAY</th></tr> <tr><td>95</td><td>07</td><td>01</td></tr> </table>	YEAR	MO	DAY	95	07	01	<table border="1"> <tr><th>YEAR</th><th>MO</th><th>DAY</th></tr> <tr><td>95</td><td>07</td><td>31</td></tr> </table>	YEAR	MO	DAY	95	07	31
YEAR	MO	DAY											
95	07	01											
YEAR	MO	DAY											
95	07	31											

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
pH	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT				6.0		8.5		2/WEEK	GRAB
BOD	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT						15		1/MONTH	GRAB
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT					20	30		1/MONTH	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND 33 USC 1319 (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)		TELEPHONE	DATE		
LaVere N. Grimes Facilities Manager			410-239-5555	95	08	15
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No flow at outfall 001 for entire month of July.

PERMITTEE ADDRESS (Include Facility Name, unless different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

Approved. 2040-004 Approval expires 9-30-85

NAME **BLACK & DECKER (U.S.) INC.**
 ADDRESS **826 HANOVER PIKE**
HAMPSTEAD, MARYLAND 21074
 FACILITY _____
 LOCATION **CARROLL COUNTY**

(8-10) **93-DP-0022** (17-18) **101**
 PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	95	07	01		95	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT			MGD							
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT								CONTINUOUS/MEASURED
FECAL COLIFORM	SAMPLE MEASUREMENT							MPN/100ml			
	PERMIT REQUIREMENT						200			1/WEEK	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER LaVere N. Grimes Facilities Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 19 USC 1001 AND 33 USC 1310 (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)	TELEPHONE	DATE			
		410-239-5555	95	08	15	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>LaVere N. Grimes</i>	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No flow at outfall 101 for entire month of July.