



**QUARTERLY GROUNDWATER MONITORING REPORT**

**Prepared for**

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

**JANUARY 1997**

**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. This document will become part of the Administrative Record for the site which is maintained at the Hampstead Public Library.

**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 October through December 1996.

Pumping records showing the total gallons pumped per month of treatment system operation are presented in Table 2-1. 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 178 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 October through December 1996 are included in Appendix A.

**2.3 GROUNDWATER QUALITY DATA**

A summary of groundwater analytical results for November 1996 (fourth quarter) is included in Table 2-4. November 1996 analytical data packages are included in Appendix B. For the reporting period of October through December 1996, approximately 248 lbs of total volatile organic compounds (VOCs) were removed from the groundwater by the extraction and treatment system. In general, the total

**Table 2-1**  
**Treatment System Pumping Records - 4th Quarter 1996**  
**Black & Decker**  
**Hampstead, Maryland**

<b>Date</b>	<b>Water Pumped (gallons)</b>
October 1996	7,872,587
November 1996	7,738,809
December 1996	7,904,413

**Table 2-2**  
**Groundwater Elevation Data - 4th Quarter 1996**  
**Black and Decker**  
**Hampstead, Maryland**

WELL NO.	TOC ELEV.	TOTAL DEPTH	10/31/96		11/13/96		12/6/96	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	NA	-	NA	-	NA	-
EW-2	849.21	110	91.63	757.58	92.17	757.04	92.07	757.14
EW-3	846.64	118	89.73	756.91	82.88	763.76	83.93	762.71
EW-4	858.01	97.5	81.67	776.34	84.76	773.25	82.99	775.02
EW-5	864.17	98	74.48	789.69	82.59	781.58	87.52	776.65
EW-6	831.98	115	60.36	771.62	59.94	772.04	59.08	772.90
EW-7	818.38	78	37.52	780.86	37.73	780.65	37.57	780.81
EW-8	811.13	98	49.76	761.37	50.22	760.91	49.63	761.50
EW-9	811.35	141	79.21	732.14	81.47	729.88	80.90	730.45
EW-10	807.74	NA	48.78	758.96	48.78	758.96	46.93	760.81
RFW-1A	864.37	78	44.02	820.35	44.89	819.48	44.36	820.01
RFW-1B	864.23	200	44.07	820.16	44.85	819.38	44.34	819.89
RFW-2A	857.41	35	11.08	846.33	11.11	846.30	10.87	846.54
RFW-2B	857.73	75	11.71	846.02	11.76	845.97	11.30	846.43
RFW-3B	839.21	153	27.22	811.99	27.22	811.99	27.15	812.06
RFW-4A	830.37	62	34.75	795.62	34.59	795.78	34.51	795.86
RFW-4B	830.37	120	34.66	795.71	34.42	795.95	34.34	796.03
RFW-5A	817.50	30	DRY	--	DRY	--	DRY	--
RFW-6	785.04	120	2.29	782.75	2.25	782.79	1.69	783.35
RFW-7	805.14	29	5.69	799.45	5.04	800.10	4.84	800.30
RFW-8	860.07	53	53.37	806.70	54.66	805.41	55.64	804.43
RFW-9	862.02	49	23.14	838.88	23.34	838.68	22.90	839.12
RFW-10	852.06	58	53.64	798.42	55.65	796.41	56.82	795.24
RFW-11A	849.32	72	67.74	781.58	67.79	781.53	67.78	781.54
RFW-11B	849.62	116	75.67	773.95	75.75	773.87	75.71	773.91
RFW-12B	844.87	264	51.41	793.46	51.61	793.26	51.36	793.51
RFW-13	849.11	150	56.86	792.25	57.31	791.80	56.47	792.64
RFW-14B	812.39	281	37.69	774.70	37.67	774.72	37.59	774.80
RFW-16	856.14	41	34.36	821.78	35.20	820.94	35.69	820.45
RFW-17	834.66	60.5	24.89	809.77	25.47	809.19	24.43	810.23
RFW-18	843.67	50	2.21	841.46	1.98	841.69	1.77	841.90
RFW-19	858.28	60	4.67	853.61	4.59	853.69	4.31	853.97
PH-7	805.94	89	28.90	777.04	29.00	776.94	28.24	777.70
PH-9	814.94	98	32.00	782.94	32.18	782.76	31.85	783.09
PH-11	820.68	78	38.89	781.79	38.81	781.87	38.61	782.07
PH-12	828.35	87	42.27	786.08	42.39	785.96	42.12	786.23
B-2	807.68	100	4.74	802.94	4.63	803.05	3.81	803.87
B-3	803.02	83	6.08	796.94	5.93	797.09	4.96	798.06
Amoco	842.29	NA	19.94	822.35	20.03	822.26	19.94	822.35
Hamp. Town #22	NA	NA	0.67	--	0.70	--	0.63	--
Pembroke #1	NA	NA	9.49	--	9.13	--	9.00	--
Pembroke #2	NA	NA	30.63	--	NA	--	NA	--
N. Houcks. Rd.	NA	NA	6.90	--	6.50	--	6.06	--
E. Century St.	NA	NA	NA	--	NA	--	NA	--
wr. Beckleys. Rd	NA	NA	48.09	--	47.14	--	46.83	--

NA = Not Available/Not Accessible

Table 2-3  
 Effluent Characteristics Summary - 4th Quarter 1996  
 Black & Decker  
 Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				October 1996	November 1996	December 1996	
001	FLOW	average	MGD	NA	0.250	0.290	0.589
		maximum	MGD	NA	0.272	0.962	1.492
	1,1,1-Trichloroethane		ug/l	5	ND	ND	ND
	Tetrachloroethylene		ug/l	5	ND	ND	ND
	Trichloroethylene		ug/l	5	ND	ND	ND
	Total Residual Chlorine		mg/l	<0.1	<0.1	<0.1	<0.1
	Oil & Grease	average	mg/l	10	ND	ND	ND
		maximum	mg/l	15	ND	ND	ND
	pH	minimum	STD	6.0	6.27	6.69	6.54
		maximum	STD	8.5	7.01	7.41	7.33
	BOD		mg/l	15	ND	2	8
	TSS	quarterly average	mg/l	20	NR	NR	8
maximum		mg/l	30	9	2	12	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.553	0.544	0.543
		maximum	MGD	NA	0.560	0.557	0.547
	Fecal Coliform		MPN/100ml	200	ND	ND	ND
201 (Monitoring Point)	FLOW	average	MGD	NA	0.254	0.258	0.255
		maximum	MGD	NA	0.272	0.279	0.266
	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  
 ND = Not Detected  
 NR = Not Reported



Table 2-4  
 Summary of Groundwater Analytical Results - November 1996  
 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-10	EW-10 (DUP)	RFW-1A	RFW-1B	RFW-2A
			(20)	(10)	(25)	(20)			(2)	(5)					
Chloromethane	ug/L	NS	200 U	100 U	250 U	200 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	NS	200 U	100 U	250 U	200 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	NS	200 U	100 U	250 U	200 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	NS	200 U	100 U	250 U	200 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	NS	130 B	99 B	260 B	120 B	5 U	3 JB	17 B	32 B	5 JB	8 B	3 JB	4 JB	4 JB
Acetone	ug/L	NS	200 U	100 U	250 B	200 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	NS	100 U	50 U	120 U	100 U	5 U	2 J	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	NS	100 U	50 U	120 U	100 U	1 J	11	28	11 J	5 U	5 U	5 U	5 U	5 U
Chloroform	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	NS	200 U	100 U	250 U	200 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	100 U	50 U	120 U	100 U	5 U	2 J	10 U	25 U	5 U	5 U	5 U	1 J	5 U
Carbon Tetrachloride	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	ug/L	NS	200 U	100 U	250 U	200 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	NS	3400	1000	3500	2100	16	15	18	16 J	1 J	1 J	5 U	5 U	1 J
Dibromochloromethane	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Benzene	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	NS	200 U	100 U	250 U	200 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	200 U	100 U	250 U	200 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	110	24 J	89 J	43 J	82	49	200	910	140	110	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Styrene	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	NS	100 U	50 U	120 U	100 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U

Notes: 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.

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

Table 2-4

## Summary of Groundwater Analytical Results - November 1996

Black & Decker  
Hampstead, Maryland

PARAMETER	Units	RFW-2B	RFW-3B	RFW-4A	RFW-4B	RFW-5A	RFW-6	RFW-7	RFW-8	RFW-9	RFW-10	RFW-11A	RFW-11B	RFW-12B
				(2)	(2)				(5)		(20)			(25)
Chloromethane	ug/L	10 U	10 U	20 U	20 U	NS	10 U	10 U	50 U	10 U	200 U	10 U	10 U	250 U
Bromomethane	ug/L	10 U	10 U	20 U	20 U	NS	10 U	10 U	50 U	10 U	200 U	10 U	10 U	250 U
Vinyl Chloride	ug/L	10 U	10 U	20 U	20 U	NS	10 U	10 U	50 U	10 U	200 U	10 U	10 U	250 U
Chloroethane	ug/L	10 U	10 U	20 U	20 U	NS	10 U	10 U	50 U	10 U	200 U	10 U	10 U	250 U
Methylene Chloride	ug/L	5 JB	4 JB	4 JB	16 B	NS	4 JB	4 JB	33 B	3 JB	89 JB	4 JB	5 JB	230 B
Acetone	ug/L	10 U	10 U	20 U	20 U	NS	4 JB	10 U	50 U	10 U	200 U	10 U	6 JB	250 U
Carbon Disulfide	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
1,1-Dichloroethene	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
1,1-Dichloroethane	ug/L	2 J	2 J	10 U	10 U	NS	5 U	5 U	25 U	5	100 U	5 U	5 U	120 U
1,2-Dichloroethene (total)	ug/L	52	50	5 J	7 J	NS	3 J	5 U	7 J	13	100 U	5 U	5 U	120 U
Chloroform	ug/L	5 U	5 U	2 J	2 J	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
1,2-Dichloroethane	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
2-Butanone	ug/L	10 U	10 U	20 U	20 U	NS	10 U	10 U	50 U	10 U	200 U	10 U	10 U	250 U
1,1,1-Trichloroethane	ug/L	2 J	2 J	10 U	10 U	NS	5 U	5 U	25 U	3 J	43 J	5 U	5 U	120 U
Carbon Tetrachloride	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Vinyl Acetate	ug/L	10 U	10 U	20 U	20 U	NS	10 U	10 U	50 U	10 U	200 U	10 U	10 U	250 U
Bromodichloromethane	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
1,2-Dichloropropane	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Trichloroethene	ug/L	22	21	170	130	NS	26	8	900	30	2500	67	31	2900
Dibromochloromethane	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
1,1,2-Trichloroethane	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Benzene	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Trans-1,3-Dichloropropene	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Bromoform	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	20 U	20 U	NS	10 U	10 U	50 U	10 U	100 U	10 U	10 U	250 U
2-Hexanone	ug/L	10 U	10 U	20 U	20 U	NS	10 U	10 U	50 U	10 U	100 U	10 U	10 U	250 U
Tetrachloroethene	ug/L	46	43	280	200	NS	23	5 U	24 J	21	66 J	1 J	5 U	75 J
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Toluene	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Chlorobenzene	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Ethylbenzene	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Styrene	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U
Xylene (total)	ug/L	5 U	5 U	10 U	10 U	NS	5 U	5 U	25 U	5 U	100 U	5 U	5 U	120 U

Notes: 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.

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

**Table 2-4**  
**Summary of Groundwater Analytical Results - November 1996**  
**Black & Decker**  
**Hampstead, Maryland**

PARAMETER	Units	RFW-13	RFW-16 (250)	RFW-16 (DUP) (250)	RFW-17	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	2500 U	2500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U
Bromomethane	ug/L	10 U	2500 U	2500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U
Vinyl Chloride	ug/L	10 U	2500 U	2500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U
Chloroethane	ug/L	10 U	2500 U	2500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U
Methylene Chloride	ug/L	5 JB	2400 B	2000 B	6 B	4 JB	4 JB	7 B	10 B	6 B	6 B	NS	9 B	5 B
Acetone	ug/L	10 U	2500 U	2500 U	10 U	6 JB	10 U	14 B	54 B	10 U	10 U	NS	10 U	10 U
Carbon Disulfide	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
1,1-Dichloroethene	ug/L	1 J	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
1,1-Dichloroethane	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
1,2-Dichloroethene (total)	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Chloroform	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
1,2-Dichloroethane	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
2-Butanone	ug/L	10 U	10000 U	10000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U
1,1,1-Trichloroethane	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Carbon Tetrachloride	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Vinyl Acetate	ug/L	10 U	10000 U	10000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U
Bromodichloromethane	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
1,2-Dichloropropane	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
cis-1,3-Dichloropropene	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Trichloroethene	ug/L	9	50000 D	51000 D	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Dibromochloromethane	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
1,1,2-Trichloroethane	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Benzene	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Bromoform	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
4-Methyl-2-pentanone	ug/L	10 U	2500 U	2500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U
2-Hexanone	ug/L	10 U	2500 U	2500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U
Tetrachloroethene	ug/L	76	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	4 J	5 U	NS	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Toluene	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Chlorobenzene	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Ethylbenzene	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Styrene	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U
Xylene (total)	ug/L	5 U	1200 U	1200 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U

Notes: 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.

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

VOCs removed from the groundwater comprised of trichloroethene (TCE) (87 %), tetrachlorethene (PCE) (12 %), and a small percentage of 1,2-dichloroethene and 1,1,1-trichloroethane.

TCE and PCE were the VOCs detected at the highest concentrations in the groundwater samples collected from the extraction wells and monitor wells. As found in earlier sampling events at the Black & Decker facility, the highest concentration of TCE was found on the eastern half of the Black & Decker facility in monitor well RFW-16 and the highest concentrations of PCE were found in the vicinity of recovery well EW-9. VOCs detected at lower concentrations were 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 Contaminant Levels (MCL).

**SECTION 3**  
**OPERATION AND MAINTENANCE OF THE TREATMENT SYSTEM**

No maintenance activities were undertaken at the extraction and treatment system during the reporting period (October through December 1996). Maintenance activities do not include those activities considered unworthy of note (such as replacement of light bulbs, lubrication of moving parts, as appropriate, or other routine activities).

**SECTION 4**  
**RECOMMENDATIONS**

For the reporting period of October through December 1996, 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**  
**DISCHARGE MONITORING REPORTS**  
**(OCTOBER - DECEMBER 1996)**

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

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No. 2040-0004

**93-DP-0022**  
 PERMIT NUMBER

**001**  
 DISCHARGE NUMBER

(2-16)

(17-15)

FACILITY:

LOCATION: **CARROLL COUNTY**

**MONITORING PERIOD**

FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
96	10	01	96	10	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	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)				NO EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.25	0.272	MGD					0	CONTINUOUS	MEASURED
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT								CONTINUOUS
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5	ppb		1/MONTH	GRAB
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5	ppb		1/MONTH	GRAB
TRICHLOROETHYLENE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5	ppb		1/MONTH	GRAB
TOTAL RESIDUAL CHLORINE	SAMPLE MEASUREMENT						<0.1	mg/l	0	4/MONTH	GRAB
	PERMIT REQUIREMENT						<0.1	mg/l		1/MONTH	GRAB
OIL & GREASE	SAMPLE MEASUREMENT						ND	mg/l	0	1/MONTH	GRAB
	PERMIT REQUIREMENT					10	15	mg/l		1/MONTH	GRAB
pH	SAMPLE MEASUREMENT				6.27		7.01	STD	0	2/WEEK	GRAB
	PERMIT REQUIREMENT				6.00		8.50	STD		2/WEEK	GRAB

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

**LaVere N. Grimes**  
**Facilities Manager**

TYPED OR PRINTED

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 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*

SIGNATURE OF PRINCIPAL EXECUTIVE  
 OFFICER OR AUTHORIZED AGENT

TELEPHONE

410-239-5555

AREA CODE-NUMBER

DATE

96 | 11 | 02

YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)



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

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

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

FORM APPROVED  
 OMB No.2040-0004

**93-DP-0022**  
 PERMIT NUMBER

**001**  
 DISCHARGE NUMBER

(2-16)

(17-19)

**MONITORING PERIOD**

FROM  
 YEAR MO DAY  
**96 10 01**

TO  
 YEAR MO DAY  
**96 10 31**

(20-21)

(22-23)

(24-25)

(26-27)

(28-29)

(30-31)

NOTE: Read instructions before completing this form.

FACILITY:

LOCATION: **CARROLL COUNTY**

PARAMETER (32-37)	X	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)			
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS						
BOD	SAMPLE MEASUREMENT									0	1/MONTH	GRAB		
	PERMIT REQUIREMENT										15	mg/l	1/MONTH	GRAB
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT									0	1/MONTH	GRAB		
	PERMIT REQUIREMENT										20	30	mg/l	1/MONTH
	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**

TYPED OR PRINTED

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*LaVere N. Grimes*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

410-239-5555

AREA CODE-NUMBER

DATE

96 | 11 | 02

10 3

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

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

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No. 2040-0004

**93-DP-0022**  
 PERMIT NUMBER

**101**  
 DISCHARGE NUMBER

(2-16)

(17-16)

**MONITORING PERIOD**

FROM  
 YEAR | MO | DAY  
**96 | 10 | 01**

TO  
 YEAR | MO | DAY  
**96 | 10 | 31**

(20-21)

(22-23)

(24-25)

(26-27)

(28-29)

(30-31)

NOTE: Read instructions before completing this form.

FACILITY:

LOCATION: **CARROLL COUNTY**

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.553	0.56	MGD					0	CONTINUOUS MEASURED	
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS MEASURED	
FECAL COLIFORM	SAMPLE MEASUREMENT						ND	MPN/ 100ml	0	1/WEEK	GRAB
	PERMIT REQUIREMENT						200			1/WEEK	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	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**

TYPED OR PRINTED

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 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*

SIGNATURE OF PRINCIPAL EXECUTIVE  
 OFFICER OR AUTHORIZED AGENT

TELEPHONE

410-239-5555

AREA CODE-NUMBER

DATE

96 | 11 | 02

YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

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

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No. 2040-0004

**93-DP-0022**  
 PERMIT NUMBER

**201**  
 DISCHARGE NUMBER

(2-16)

(17-16)

FACILITY:

LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
96	10	01	96	10	31

FROM

TO

(20-21)

(22-23)

(24-25)

(26-27)

(28-29)

(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.254	0.272	MGD					0	CONTINUOUS	MEASURED
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT								
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						N/A			1/MONTH	GRAB
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						N/A			1/MONTH	GRAB
TRICHLOROETHYLENE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						N/A			1/MONTH	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

**LaVere N. Grimes**  
**Facilities Manager**

TYPED OR PRINTED

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 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)

*LaVere N. Grimes*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

410-239-5555

AREA CODE-NUMBER

DATE

96 | 11 | 02

YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

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

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED

OMB No.2040-0004

**93-DP-0022**  
 PERMIT NUMBER

**001**  
 DISCHARGE NUMBER

(2-16)

(17-16)

FACILITY:

LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
96	11	01	96	11	30

FROM

TO

(20-21)

(22-23)

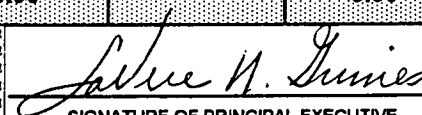
(24-25)

(26-27)

(28-29)

(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)					
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS				
FLOW	SAMPLE MEASUREMENT	0.29	0.962	MGD				0	CONTINUOUS	MEASURED					
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS					
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT						ND	0	1/MONTH	GRAB					
	PERMIT REQUIREMENT						5	ppb	1/MONTH	GRAB					
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT						ND	0	1/MONTH	GRAB					
	PERMIT REQUIREMENT						5	ppb	1/MONTH	GRAB					
TRICHLOROETHYLENE	SAMPLE MEASUREMENT						ND	0	1/MONTH	GRAB					
	PERMIT REQUIREMENT						5	ppb	1/MONTH	GRAB					
TOTAL RESIDUAL CHLORINE	SAMPLE MEASUREMENT						<0.1	0	3/MONTH	GRAB					
	PERMIT REQUIREMENT						<0.1	mg/l	1/MONTH	GRAB					
OIL & GREASE	SAMPLE MEASUREMENT						ND	0	1/MONTH	GRAB					
	PERMIT REQUIREMENT						10	15	mg/l	1/MONTH	GRAB				
pH	SAMPLE MEASUREMENT				6.69		7.41	0	2/WEEK	GRAB					
	PERMIT REQUIREMENT				6.00		8.50	STD	2/WEEK	GRAB					
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREBY; 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 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)						TELEPHONE	DATE						
LaVere N. Grimes Facilities Manager								 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						410-239-5555	96   12   05
TYPED OR PRINTED														AREA CODE-NUMBER	YEAR   MO   DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

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

NAME: **BLACK & DECKER (U.S.) INC.**

ADDRESS: **626 HANOVER PIKE**

**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED

OMB No.2040-0004

**93-DP-0022**

PERMIT NUMBER

(2-16)

**001**

DISCHARGE NUMBER

(17-16)

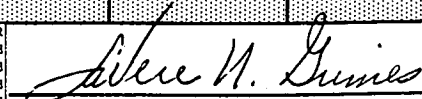
FACILITY:

LOCATION: **CARROLL COUNTY**

**MONITORING PERIOD**

FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
96	11	01	96	11	30
(20-21)	(22-25)	(24-25)	(26-27)	(28-28)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)				
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM								
BOD	SAMPLE MEASUREMENT							2	0	1/MONTH	GRAB				
	PERMIT REQUIREMENT							15		1/MONTH	GRAB				
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT							2	0	1/MONTH	GRAB				
	PERMIT REQUIREMENT					20	30			1/MONTH	GRAB				
	SAMPLE MEASUREMENT														
	PERMIT REQUIREMENT														
	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 U.S.C. § 1001 AND 33 U.S.C. § 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								 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						410-239-5555	96   12   05
TYPED OR PRINTED														AREA CODE-NUMBER	10.3

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)  
**NAME: BLACK & DECKER (U.S.) INC.**  
**ADDRESS: 626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

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

FORM APPROVED  
 OMB No.2040-0004

**93-DP-0022**  
 PERMIT NUMBER

**101**  
 DISCHARGE NUMBER

(2-16)

(17-16)

**MONITORING PERIOD**

FROM  
 YEAR MO DAY  
**96 11 01**

TO  
 YEAR MO DAY  
**96 11 30**

FROM

TO

(20-21)

(22-23)

(24-25)

(26-27)

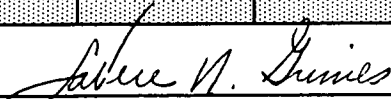
(28-29)

(30-31)

NOTE: Read instructions before completing this form.

FACILITY:

LOCATION: **CARROLL COUNTY**

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)					
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS				
FLOW	SAMPLE MEASUREMENT	0.544	0.557	MGD				0	CONTINUOUS MEASURED						
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT						CONTINUOUS MEASURED						
FECAL COLIFORM	SAMPLE MEASUREMENT						ND	0	1/WEEK GRAB						
	PERMIT REQUIREMENT						200	1/WEEK	GRAB						
	SAMPLE MEASUREMENT														
	PERMIT REQUIREMENT														
	SAMPLE MEASUREMENT														
	PERMIT REQUIREMENT														
	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 U.S.C. § 1001 AND 33 U.S.C. § 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								 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						410-239-5555	96   12   05
TYPED OR PRINTED														AREA CODE-NUMBER	YEAR   MO   DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

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

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED

OMB No.2040-0004

**93-DP-0022**  
 PERMIT NUMBER  
 (2-16)

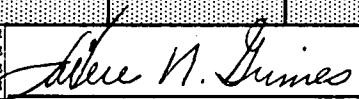
**201**  
 DISCHARGE NUMBER  
 (17-16)

FACILITY:

LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
96	11	01	96	11	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)					
		AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (54-61)	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)				UNITS (54-61)				
FLOW	SAMPLE MEASUREMENT	0.258	0.279	MGD				0	CONTINUOUS MEASURED						
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT						CONTINUOUS MEASURED						
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT					ND	ppb	0	1/MONTH GRAB						
	PERMIT REQUIREMENT					N/A			1/MONTH GRAB						
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT					ND	ppb	0	1/MONTH GRAB						
	PERMIT REQUIREMENT					N/A			1/MONTH GRAB						
TRICHLOROETHYLENE	SAMPLE MEASUREMENT					ND	ppb	0	1/MONTH GRAB						
	PERMIT REQUIREMENT					N/A			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 HEREDIN. 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 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)						TELEPHONE	DATE						
LaVere N. Grimes Facilities Manager								 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						410-239-5555	96   12   05
TYPED OR PRINTED														AREA CODE-NUMBER	YEAR   MO   DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

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

NAME: **BLACK & DECKER (U.S.) INC.**

ADDRESS: **626 HANOVER PIKE**

**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED

OMB No.2040-0004

**93-DP-0022**  
PERMIT NUMBER

(2-16)

**001**  
DISCHARGE NUMBER

(17-19)

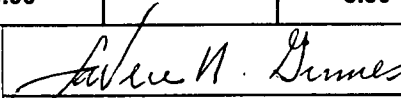
**MONITORING PERIOD**

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	96	12	01		96	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

FACILITY:

LOCATION: **CARROLL COUNTY**

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only (46-53) (54-61))			QUALITY OR CONCENTRATION (4 Card Only (38-45) (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	0.589	1.492	MGD					0	CONTINUOUS	MEASURED
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS	MEASURED
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5	ppb		1/MONTH	GRAB
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5	ppb		1/MONTH	GRAB
TRICHLOROETHYLENE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5	ppb		1/MONTH	GRAB
TOTAL RESIDUAL CHLORINE	SAMPLE MEASUREMENT						<0.1	mg/l	0	3/MONTH	GRAB
	PERMIT REQUIREMENT						<0.1	mg/l		1/MONTH	GRAB
OIL & GREASE	SAMPLE MEASUREMENT						ND	mg/l	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						10	mg/l		1/MONTH	GRAB
pH	SAMPLE MEASUREMENT				6.54		7.33	STD	0	2WEEK	GRAB
	PERMIT REQUIREMENT				6.00		8.50	STD		2WEEK	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 18 U.S.C. § 1001 AND 33 U.S.C. § 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		
<b>LaVere N. Grimes</b> Facilities Manager								410-239-5555	97   01   03		
TYPED OR PRINTED								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)



PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)  
**NAME: BLACK & DECKER (U.S.) INC.**  
**ADDRESS: 626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

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

FORM APPROVED  
 OMB No. 2040-0004

**93-DP-0022**  
 PERMIT NUMBER  
 (2-16)

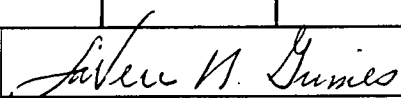
**001**  
 DISCHARGE NUMBER  
 (17-19)

**FACILITY:**  
**LOCATION: CARROLL COUNTY**

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
96	12	01	96	12	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 / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
BOD	SAMPLE MEASUREMENT							8	mg/l	0	1/MONTH	GRAB
	PERMIT REQUIREMENT							15			1/MONTH	GRAB
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT							8	mg/l	0	1/MONTH	GRAB
	PERMIT REQUIREMENT							20			1/MONTH	GRAB
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

<b>NAME / TITLE PRINCIPAL EXECUTIVE OFFICER</b>  <b>LaVere N. Grimes</b> <b>Facilities Manager</b>  TYPED OR PRINTED	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 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
			410-239-5555	97   01   03
COMMENT AND EXPLANATION OF ANY VIOLATIONS			AREA CODE-NUMBER	10.3

(Reference all attachments here)

PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)  
**NAME: BLACK & DECKER (U.S.) INC.**  
**ADDRESS: 626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

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

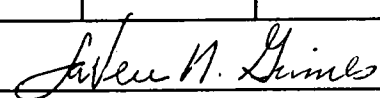
FORM APPROVED  
 OMB No. 2040-0004

**93-DP-0022** **101**  
 PERMIT NUMBER DISCHARGE NUMBER  
 (2-16) (17-19)

FACILITY: \_\_\_\_\_  
 LOCATION: **CARROLL COUNTY**

**MONITORING PERIOD**  
 FROM: YEAR 96 MO 12 DAY 01 TO YEAR 96 MO 12 DAY 31  
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)						
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS									
FLOW	SAMPLE MEASUREMENT	0.543	0.547	MGD					0	CONTINUOUS MEASURED							
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS MEASURED							
FECAL COLIFORM	SAMPLE MEASUREMENT						ND	MPN/ 100ml	0	1/WEEK	GRAB						
	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		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 U.S.C. § 1001 AND 33 U.S.C. § 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									 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							410-239-5555	97   01   03
TYPED OR PRINTED																AREA CODE-NUMBER	YEAR   MO   DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)  
**NAME: BLACK & DECKER (U.S.) INC.**  
**ADDRESS: 626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

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

FORM APPROVED  
 OMB No. 2040-0004

**93-DP-0022**  
 PERMIT NUMBER  
 (2-16)

**201**  
 DISCHARGE NUMBER  
 (17-19)

FACILITY: \_\_\_\_\_  
 LOCATION: **CARROLL COUNTY**

MONITORING PERIOD						
FROM			TO			
YEAR	MO	DAY	YEAR	MO	DAY	
96	12	01	96	12	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	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.255	0.266	MGD					0	CONTINUOUS	MEASURED
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS	MEASURED
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						N/A			1/MONTH	GRAB
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						N/A			1/MONTH	GRAB
TRICHLOROETHYLENE	SAMPLE MEASUREMENT						ND	ppb	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						N/A			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 U.S.C. § 1001 AND 33 U.S.C. § 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
<b>LaVere N. Grimes</b> Facilities Manager		<i>LaVere N. Grimes</i> SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	410-239-5555
TYPED OR PRINTED		AREA CODE-NUMBER	YEAR   MO   DAY

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

# Gascoyne Laboratories, Inc.



YOUR **ON-TIME** QUALITY LAB™

Baltimore, MD 21224

(410) 633-1800

(800) GAS-COYN

FAX NO.

(410) 633-5443

## REPORT OF ANALYSIS

Report No. 96-10-049

Report Date: October 16, 1996

Report To: Black & Decker Company

Page: 2 of 7

Sample I.D. Grab Water Sample taken by Gascoyne Laboratories, Inc. on 10/02/96 (0947) from the Black & Decker Company facility located on 626 Hanover Pike, Hampstead, MD: Air Stripper #2 (Pre)

<u>Compound</u>	<u>Results</u>	<u>Detection Limits</u>
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acrolein	ND	100
Acrylonitrile	ND	100
Trichlorofluoromethane	<5	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	17	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
Tetrachloroethene	140	5
1,1,2,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
1,1-Dichloroethene	<5	5
Trichloroethene	1,200	5
Benzene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5

### Notes

- (1) Results expressed as micrograms/liter (ppb).
- (2) Analysis performed according to method EPA 624.
- (3) Analyst(s): SJN; Date Test Completed: 10/10/96.

William L. Lock  
Laboratory Director

# Gascoyne Laboratories, Inc.



YOUR **ON-TIME** QUALITY LAB<sup>®</sup>

Baltimore, MD 21224

(410) 633-1800

(800) GAS-COYN

FAX NO.

(410) 633-5443

## REPORT OF ANALYSIS

Report No. 96-10-049

Report Date: October 16, 1996

Report To: Black & Decker Company

Page: 3 of 7

Sample I.D. Grab Water Sample taken by Gascoyne Laboratories, Inc. on 10/02/96 (0951) from the Black & Decker Company facility located on 626 Hanover Pike, Hampstead, MD: Outfall 201

<u>Compound</u>	<u>Results</u>	<u>Detection Limits</u>
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acrolein	ND	100
Acrylonitrile	ND	100
Trichlorofluoromethane	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
1,1-Dichloroethene	ND	5
Trichloroethene	ND	5
Benzene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5

### Notes

- (1) Results expressed as micrograms/liter (ppb).
- (2) Analysis performed according to method EPA 624.
- (3) Analyst(s): SJN; Date Test Completed: 10/06/96.

William L. Lock  
Laboratory Director

# Gascoyne Laboratories, Inc.



YOUR **ON-TIME** QUALITY LAB...

Baltimore, MD 21224

## REPORT OF ANALYSIS

(410) 633-1800

(800) GAS-COYN

FAX NO.

(410) 633-5443

Report No. 96-11-163

Report Date: November 15, 1996

Report To: Black & Decker Company

Page: 3 of 8

Sample I.D. Grab Water Sample taken by Gascoyne Laboratories, Inc. on 11/07/96 (0925) from the Black & Decker Company facility located on 626 Hanover Pike, Hampstead, MD: Air Stripper #2 (Pre)

<u>Compound</u>	<u>Results</u>	<u>Detection Limits</u>
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acrolein	ND	100
Acrylonitrile	ND	100
Trichlorofluoromethane	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	6	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
Tetrachloroethene	150	5
1,1,2,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
1,1-Dichloroethene	ND	5
Trichloroethene	1100	5
Benzene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5

### Notes

- (1) Results expressed as micrograms/liter (ppb).
- (2) Analysis performed according to method EPA 624.
- (3) Analyst(s): MST, AB, SJN; Date Test Completed: 11/14/96.

William L. Lock  
Laboratory Director

# Gascoyne Laboratories, Inc.



YOUR **ON-TIME** QUALITY LAB...

Baltimore, MD 21224

## REPORT OF ANALYSIS

(410) 633-1800

(800) GAS-COYN

FAX NO.

(410) 633-5443

Report No. 96-11-163

Report Date: November 15, 1996

Report To: Black & Decker Company

Page: 4 of 8

Sample I.D. Grab Water Sample taken by Gascoyne Laboratories, Inc. on 11/07/96 (0929) from the Black & Decker Company facility located on 626 Hanover Pike, Hampstead, MD: Outfall 201

<u>Compound</u>	<u>Results</u>	<u>Detection Limits</u>
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acrolein	ND	100
Acrylonitrile	ND	100
Trichlorofluoromethane	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
1,1-Dichloroethene	ND	5
Trichloroethene	ND	5
Benzene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5

### Notes

- (1) Results expressed as micrograms/liter (ppb).
- (2) Analysis performed according to method EPA 624.
- (3) Analyst(s): MST,AB; Date Test Completed: 11/09/96.

William L. Lock  
Laboratory Director

# Gascoyne Laboratories, Inc.



YOUR **ON-TIME** QUALITY LAB...

Baltimore, MD 21224

(410) 633-1800

(800) GAS-COYN

FAX NO.

(410) 633-5443

## REPORT OF ANALYSIS

Report No. 96-12-072

Report Date: December 17, 1996

Report To: Black & Decker Company


Page: 2 of 7

Sample I.D. Grab Water sample taken by Gascoyne Laboratories, Inc on 12/04/96 (0858) at the Black and Decker Facility located at 626 Hanover Pike, Hampstead, MD: Air Stripper #2 Pre

Compound	Results	Detection Limits
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acrolein	ND	100
Acrylonitrile	ND	100
Trichlorofluoromethane	<5	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	<5	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
Tetrachloroethene	160	5
1,1,2,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
1,1-Dichloroethene	ND	5
Trichloroethene	1,000	5
Benzene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5

### Notes

- (1) Results expressed as ug/l (ppb).
- (2) Analysis performed according to method EPA 624.
- (3) Analyst(s): SJN,AB; Date Test Completed: 12/07/96.

  
Thomas A. McVicker  
QA/QC Officer



# Gascoyne Laboratories, Inc.



YOUR **ON-TIME** QUALITY LAB...

Baltimore, MD 21224

(410) 633-1800

(800) GAS-COYN

FAX NO.

(410) 633-5443

## REPORT OF ANALYSIS

Report No. 96-12-072

Report Date: December 17, 1996

Report To: Black & Decker Company


Page: 3 of 7

Sample I.D. Grab Water sample taken by Gascoyne Laboratories, Inc on 12/04/96 (0900) at the Black and Decker Facility located at 626 Hanover Pike, Hampstead, MD: Outfall 201

Compound	Results	Detection Limits
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acrolein	ND	100
Acrylonitrile	ND	100
Trichlorofluoromethane	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
1,1-Dichloroethene	ND	5
Trichloroethene	ND	5
Benzene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5

### Notes

- (1) Results expressed as ug/l (ppb).
- (2) Analysis performed according to method EPA 624.
- (3) Analyst(s): SJN,AB; Date Test Completed: 12/07/96.

  
Thomas A. McVicker  
QA/QC Officer

**APPENDIX B**  
**ANALYTICAL DATA PACKAGE**  
**(NOVEMBER 1996)**



Roy F. Weston, Inc.  
208 Welsh Pool Road  
Lionville, Pennsylvania 19341-1333  
610-701-6100 • Fax 610-701-6140

## LIONVILLE LABORATORY ANALYTICAL REPORT

Client : BLACK AND DECKER  
RFW# : 9611L217

W.O. #: 02501-004-001-0000-00  
Date Received: 11-14-96

### GC/MS VOLATILE

The set of samples consisted of thirty-seven (37) water samples collected on 11-12,13-96.

The samples were analyzed according to criteria set forth in SW 846 Method 8240 for TCL Volatile target compounds on 11-22,23,24,25,26,27-96.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. The cooler temperature upon receipt has been recorded on the chain-of-custody.
2. Sample TRIP BLANK was reanalyzed outside holding time (refer to statement #5). A copy of the Sample Discrepancy Report (SDR) has been included in this data package.
3. Non-target compounds were not detected in these samples.
4. Thirteen (13) samples required dilution(s) because they contained high levels of target compounds.
5. Fifteen (15) of one-hundred-seventy-one (171) surrogate recoveries were outside EPA QC limits. The associated matrix spike analyses of sample EW-6 fulfilled its reanalysis requirement. The other samples with out-of-limit recoveries were reanalyzed on 11-25,26,27-96 and reported.
6. All matrix spike recoveries were within EPA QC limits.
7. All blank spike recoveries were within EPA QC limits.
8. The method blanks contained the common contaminants Methylene Chloride and Acetone at levels less than 4x the CRQL.

for

*J. Michael Taylor*  
J. Michael Taylor  
Vice President and Laboratory Manager  
Lionville Analytical Laboratory

12-11-96

Date

mmz/voa/11-217v.cn

001



**GLOSSARY OF VOA DATA****DATA QUALIFIERS**

- U** = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
- J** = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- D** = Identifies all compounds identified in an analysis at a secondary dilution factor.
- I** = Interference.
- NQ** = Result qualitatively confirmed but not able to quantify.
- N** = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- X** = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
- Y** = Additional qualifiers used as required are explained in the case narrative.

GLOSSARY OF VOA DATAABBREVIATIONS

- BS** = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD** = Indicates blank spike duplicate.
- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Suffix added to sample number to indicate that results are from a diluted analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- SP, Z** = Indicates Spiked Compound.

# WESTON® Sample Discrepancy Report (SDR)

SDR #: 96VT265

Initiator: Jack Glacken RFW Batch: 9611L217  
Date: 12/6/96 Samples: -036  
Client: Black + Decker Method: SW846/MCAVWW/CLP/

Parameter: 0624H  
Matrix: Water  
Prep Batch: 4

*12/10/96*

### 1. Reason for SDR

- a. COC Discrepancy  Tech Profile Error  Client Request  Sampler Error on C-O-C  
 Transcription Error  Wrong Test Code  Other \_\_\_\_\_
- b. General Discrepancy  
 Missing Sample/Extract  Container Broken  Wrong Sample Pulled  Label ID's Illegible  
 Hold Time Exceeded  Insufficient Sample  Preservation Wrong  Received Past Hold  
 Improper Bottle Type  Not Amenable to Analysis

Note: Verified by [Log-In] or [Prep Group] (circle)...signature/date: \_\_\_\_\_

### c. QC Problem (Include all relevant specific results; attach data if necessary)

*sample analyzed in hold w/ surrogate out  
reanalyzed out of hold*

### 2. Known or Probable Causes(s)

### 3. Discussion and Proposed Action

Other Description:

- Re-log
- Entire Batch
- Following Samples: \_\_\_\_\_
- Re-leach
- Re-extract
- Re-digest
- Revise EDD
- Change Test Code to \_\_\_\_\_
- Place On/Take Off Hold (circle)

*Will report both and narrate*

### 4. Project Manager Instructions...signature/date: \_\_\_\_\_

*DCS 12/11/96*

- Concur with Proposed Action
- Disagree with Proposed Action; See Instruction
- Include in Case Narrative
- Client Contacted:
- Date/Person \_\_\_\_\_
- Add
- Cancel

### 5. Final Action...signature/date: \_\_\_\_\_

*Mary M Taylor 12-11-96*

Other Explanation:

- Verified re-[log][leach][extract][digest][analysis] (circle)
- Included in Case Narrative
- Hard Copy COC Revised
- Electronic COC Revised
- EDD Corrections Completed

When Final Action has been recorded, forward original to QA Specialist for distribution and filing.

Route	Distribution of Completed SDR	Route	Distribution of Completed SDR
<input type="checkbox"/>	<input checked="" type="checkbox"/> Initiator	<input type="checkbox"/>	<input type="checkbox"/> Metals: Reichner/Doughty
<input type="checkbox"/>	<input checked="" type="checkbox"/> Lab Manager: J. Michael Taylor	<input type="checkbox"/>	<input type="checkbox"/> Inorganic: Perrone/Leonards
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Project Mgr: <i>Dyana Saggas</i>	<input type="checkbox"/>	<input type="checkbox"/> GC/LC: Jarvis/Skrzat/Schnell
<input type="checkbox"/>	<input checked="" type="checkbox"/> Section Mgr: Siefy/Durke/Daniels	<input type="checkbox"/>	<input type="checkbox"/> MS: LeMin/McIntyre/Taylor/Kasdras/Steele
<input type="checkbox"/>	<input checked="" type="checkbox"/> QA File: Feldman/Racioppi/Shaffer	<input type="checkbox"/>	<input type="checkbox"/> Log-in: Geiger
<input type="checkbox"/>	<input type="checkbox"/> Data Management: Miller	<input type="checkbox"/>	<input type="checkbox"/> Admin: Brewer/Keehn/Edgington
<input type="checkbox"/>	<input type="checkbox"/> Sample Prep: Osei-Mensah/Swisher	<input checked="" type="checkbox"/>	<input type="checkbox"/> Other: <i>M. Ziegler</i>

Sample Information	Cust ID:	RFW-9	RFW-9	RFW-9	RFW-12B	RFW-11A	RFW-11B
	RFW#:	001	001 MS	001 MSD	002	003	004
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	25.0	1.00	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate	Toluene-d8	97 %	99 %	97 %	100 %	100 %	104 %
Recovery	Bromofluorobenzene	108 %	106 %	107 %	98 %	91 %	96 %
	1,2-Dichloroethane-d4	109 %	106 %	108 %	105 %	89 %	89 %
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====							
Chloromethane		10 U	10 U	10 U	250 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	250 U	10 U	10 U
Vinyl Chloride		10 U	10 U	10 U	250 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	250 U	10 U	10 U
Methylene Chloride		3 JB	2 JB	3 JB	230 B	4 JB	5 JB
Acetone		10 U	10 U	10 U	250 U	10 U	6 JB
Carbon Disulfide		5 U	5 U	5 U	120 U	5 U	5 U
1,1-Dichloroethene		5 U	105 %	99 %	120 U	5 U	5 U
1,1-Dichloroethane		5	5	5 J	120 U	5 U	5 U
1,2-Dichloroethene (total)		13	14	14	120 U	5 U	5 U
Chloroform		5 U	5 U	5 U	120 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	120 U	5 U	5 U
2-Butanone		10 U	10 U	10 U	250 U	10 U	10 U
1,1,1-Trichloroethane		3 J	3 J	2 J	120 U	5 U	5 U
Carbon Tetrachloride		5 U	5 U	5 U	120 U	5 U	5 U
Vinyl Acetate		10 U	10 U	10 U	250 U	10 U	10 U
Bromodichloromethane		5 U	5 U	5 U	120 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	120 U	5 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	120 U	5 U	5 U
Trichloroethene		30	90 %	90 %	2900	67	31
Dibromochloromethane		5 U	5 U	5 U	120 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	120 U	5 U	5 U
Benzene		5 U	96 %	94 %	120 U	5 U	5 U
Trans-1,3-Dichloropropene		5 U	5 U	5 U	120 U	5 U	5 U
Bromoform		5 U	5 U	5 U	120 U	5 U	5 U
4-Methyl-2-pentanone		10 U	10 U	10 U	250 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	250 U	10 U	10 U
Tetrachloroethene		21	21	22	75 J	1 J	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	120 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

005

Cust ID: RFW-9 RFW-9 RFW-9 RFW-12B RFW-11A RFW-11B

RFW#: 001 001 MS 001 MSD 002 003 004

Toluene	5 U	92 %	88 %	120 U	5 U	5 U
Chlorobenzene	5 U	90 %	91 %	120 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	120 U	5 U	5 U
Styrene	5 U	5 U	5 U	120 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	120 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

006



	Cust ID:	RFW-4A	RFW-4B	RFW-13	RFW-10	RFW-8	RFW-16
Sample Information	RFW#:	005	006	007	008	009	010
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	2.00	2.00	1.00	20.0	5.00	250
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate	Toluene-d8	90 %	98 %	109 %	107 %	92 %	100 %
Recovery	Bromofluorobenzene	106 %	94 %	96 %	97 %	94 %	98 %
	1,2-Dichloroethane-d4	102 %	97 %	96 %	99 %	97 %	104 %
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====							
Chloromethane		20 U	20 U	10 U	200 U	50 U	2500 U
Bromomethane		20 U	20 U	10 U	200 U	50 U	2500 U
Vinyl Chloride		20 U	20 U	10 U	200 U	50 U	2500 U
Chloroethane		20 U	20 U	10 U	200 U	50 U	2500 U
Methylene Chloride		4 JB	16 B	5 JB	89 JB	33 B	2400 B
Acetone		20 U	20 U	10 U	200 U	50 U	2500 U
Carbon Disulfide		10 U	10 U	5 U	100 U	25 U	1200 U
1,1-Dichloroethene		10 U	10 U	1 J	100 U	25 U	1200 U
1,1-Dichloroethane		10 U	10 U	5 U	100 U	25 U	1200 U
1,2-Dichloroethene (total)		5 J	7 J	5 U	100 U	7 J	1200 U
Chloroform		2 J	2 J	5 U	100 U	25 U	1200 U
1,2-Dichloroethane		10 U	10 U	5 U	100 U	25 U	1200 U
2-Butanone		20 U	20 U	10 U	200 U	50 U	2500 U
1,1,1-Trichloroethane		10 U	10 U	5 U	43 J	25 U	1200 U
Carbon Tetrachloride		10 U	10 U	5 U	100 U	25 U	1200 U
Vinyl Acetate		20 U	20 U	10 U	200 U	50 U	2500 U
Bromodichloromethane		10 U	10 U	5 U	100 U	25 U	1200 U
1,2-Dichloropropane		10 U	10 U	5 U	100 U	25 U	1200 U
cis-1,3-Dichloropropene		10 U	10 U	5 U	100 U	25 U	1200 U
Trichloroethene		170	130	9	2500	900	56000 E
Dibromochloromethane		10 U	10 U	5 U	100 U	25 U	1200 U
1,1,2-Trichloroethane		10 U	10 U	5 U	100 U	25 U	1200 U
Benzene		10 U	10 U	5 U	100 U	25 U	1200 U
Trans-1,3-Dichloropropene		10 U	10 U	5 U	100 U	25 U	1200 U
Bromoform		10 U	10 U	5 U	100 U	25 U	1200 U
4-Methyl-2-pentanone		20 U	20 U	10 U	200 U	50 U	2500 U
2-Hexanone		20 U	20 U	10 U	200 U	50 U	2500 U
Tetrachloroethene		280	200	76	66 J	24 J	1200 U
1,1,2,2-Tetrachloroethane		10 U	10 U	5 U	100 U	25 U	1200 U

\*= Outside of EPA CLP QC limits.

200

Cust ID:	RFW-4A	RFW-4B	RFW-13	RFW-10	RFW-8	RFW-16
RFW#:	005	006	007	008	009	010

Toluene	10 U	10 U	5 U	100 U	25 U	1200 U
Chlorobenzene	10 U	10 U	5 U	100 U	25 U	1200 U
Ethylbenzene	10 U	10 U	5 U	100 U	25 U	1200 U
Styrene	10 U	10 U	5 U	100 U	25 U	1200 U
Xylene (total)	10 U	10 U	5 U	100 U	25 U	1200 U

008

\*= Outside of EPA CLP QC limits.

Cust ID:	RFW-16	RFW-18	RFW-19	RFW-17	RFW-7	RFW-1A
Sample RFW#:	010 DL	011	012	013	014	015
Information Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
D.F.:	500	1.00	1.00	1.00	1.00	1.00
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

600

	Toluene-d8	100 %	105 %	106 %	100 %	102 %	99 %
Surrogate Bromofluorobenzene	99 %	95 %	94 %	89 %	91 %	95 %	
Recovery 1,2-Dichloroethane-d4	107 %	90 %	85 %	84 %	92 %	93 %	
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====							
Chloromethane	5000 U	10 U	10 U	10 U	10 U	10 U	
Bromomethane	5000 U	10 U	10 U	10 U	10 U	10 U	
Vinyl Chloride	5000 U	10 U	10 U	10 U	10 U	10 U	
Chloroethane	5000 U	10 U	10 U	10 U	10 U	10 U	
Methylene Chloride	1700 JBD	4 JB	4 JB	6 B	4 JB	3 JB	
Acetone	5000 U	6 JB	10 U	10 U	10 U	10 U	
Carbon Disulfide	2500 U	5 U	5 U	5 U	5 U	5 U	
1,1-Dichloroethene	2500 U	5 U	5 U	5 U	5 U	5 U	
1,1-Dichloroethane	2500 U	5 U	5 U	5 U	5 U	5 U	
1,2-Dichloroethene (total)	2500 U	5 U	5 U	5 U	5 U	5 U	
Chloroform	2500 U	5 U	5 U	5 U	5 U	5 U	
1,2-Dichloroethane	2500 U	5 U	5 U	5 U	5 U	5 U	
2-Butanone	5000 U	10 U	10 U	10 U	10 U	10 U	
1,1,1-Trichloroethane	2500 U	5 U	5 U	5 U	5 U	5 U	
Carbon Tetrachloride	2500 U	5 U	5 U	5 U	5 U	5 U	
Vinyl Acetate	5000 U	10 U	10 U	10 U	10 U	10 U	
Bromodichloromethane	2500 U	5 U	5 U	5 U	5 U	5 U	
1,2-Dichloropropane	2500 U	5 U	5 U	5 U	5 U	5 U	
cis-1,3-Dichloropropene	2500 U	5 U	5 U	5 U	5 U	5 U	
Trichloroethene	50000 D	5 U	5 U	5 U	8	5 U	
Dibromochloromethane	2500 U	5 U	5 U	5 U	5 U	5 U	
1,1,2-Trichloroethane	2500 U	5 U	5 U	5 U	5 U	5 U	
Benzene	2500 U	5 U	5 U	5 U	5 U	5 U	
Trans-1,3-Dichloropropene	2500 U	5 U	5 U	5 U	5 U	5 U	
Bromoform	2500 U	5 U	5 U	5 U	5 U	5 U	
4-Methyl-2-pentanone	5000 U	10 U	10 U	10 U	10 U	10 U	
2-Hexanone	5000 U	10 U	10 U	10 U	10 U	10 U	
Tetrachloroethene	2500 U	5 U	5 U	5 U	5 U	5 U	
1,1,2,2-Tetrachloroethane	2500 U	5 U	5 U	5 U	5 U	5 U	

\*= Outside of EPA CLP QC limits.

Cust ID:	RFW-16	RFW-18	RFW-19	RFW-17	RFW-7	RFW-1A
RFW#:	010 DL	011	012	013	014	015

Toluene	2500 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	2500 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	2500 U	5 U	5 U	5 U	5 U	5 U
Styrene	2500 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	2500 U	5 U	5 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

010

	Cust ID:	RFW-2A	RFW-2B	RFW-3B	RFW-6	RFW-1B	RFW-1B
Sample Information	RFW#:	016	017	018	019	020	020
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
							REP/REP
Surrogate	Toluene-d8	99 %	101 %	99 %	101 %	92 %	94 %
Recovery	Bromofluorobenzene	88 %	91 %	86 %	95 %	84 * %	83 * %
	1,2-Dichloroethane-d4	82 %	101 %	96 %	95 %	92 %	99 %
		fl	fl	fl	fl	fl	fl
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride		4 JB	5 JB	4 JB	4 JB	4 JB	5 BJ
Acetone		10 U	10 U	10 U	4 JB	10 U	10 U
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	2 J	2 J	5 U	5 U	5 U
1,2-Dichloroethene (total)		5 U	52	50	3 J	5 U	5 U
Chloroform		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		5 U	2 J	2 J	5 U	1 J	1 J
Carbon Tetrachloride		5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene		1 J	22	21	26	5 U	5 U
Dibromochloromethane		5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
Benzene		5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U
Bromoform		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene		5 U	46	43	23	5 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

011

Cust ID: RFW-2A RFW-2B RFW-3B RFW-6 RFW-1B RFW-1B

RFW#: 016 017 018 019 020 020

REPREP

	016	017	018	019	020	020
Toluene	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U

012

\*= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 12/11/96 08:36

RFW Batch Number: 9611L217

Client: BLACK AND DECKER

Work Order: 02501004001 Page: 5a

Sample Information	Cust ID:	EW-2	EW-3	EW-4	EW-5	EW-6	EW-6
RFW#:	021	022	023	024	025	025 MS	
Matrix:	WATER	WATER	WATER	WATER	WATER	WATER	
D.F.:	20.0	10.0	25.0	20.0	1.00	1.00	
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	

013

	Toluene-d8	95 %	98 %	101 %	96 %	95 %	102 %
Surrogate Bromofluorobenzene	90 %	102 %	96 %	92 %	104 %	110 %	
Recovery 1,2-Dichloroethane-d4	112 %	113 %	108 %	111 %	115 * %	116 * %	
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====							
Chloromethane	200 U	100 U	250 U	200 U	10 U	10 U	
Bromomethane	200 U	100 U	250 U	200 U	10 U	10 U	
Vinyl Chloride	200 U	100 U	250 U	200 U	10 U	10 U	
Chloroethane	200 U	100 U	250 U	200 U	10 U	10 U	
Methylene Chloride	130 B	99 B	260 B	120 B	5 U	3 JB	
Acetone	200 U	100 U	250 U	200 U	10 U	10 U	
Carbon Disulfide	100 U	50 U	120 U	100 U	5 U	5 U	
1,1-Dichloroethene	100 U	50 U	120 U	100 U	5 U	105 %	
1,1-Dichloroethane	100 U	50 U	120 U	100 U	5 U	5 U	
1,2-Dichloroethene (total)	100 U	50 U	120 U	100 U	1 J	1 J	
Chloroform	100 U	50 U	120 U	100 U	5 U	5 U	
1,2-Dichloroethane	100 U	50 U	120 U	100 U	5 U	5 U	
2-Butanone	200 U	100 U	250 U	200 U	10 U	10 U	
1,1,1-Trichloroethane	100 U	50 U	120 U	100 U	5 U	5 U	
Carbon Tetrachloride	100 U	50 U	120 U	100 U	5 U	5 U	
Vinyl Acetate	200 U	100 U	250 U	200 U	10 U	10 U	
Bromodichloromethane	100 U	50 U	120 U	100 U	5 U	5 U	
1,2-Dichloropropane	100 U	50 U	120 U	100 U	5 U	5 U	
cis-1,3-Dichloropropene	100 U	50 U	120 U	100 U	5 U	5 U	
Trichloroethene	3400	1000	3500	2100	16	83 %	
Dibromochloromethane	100 U	50 U	120 U	100 U	5 U	5 U	
1,1,2-Trichloroethane	100 U	50 U	120 U	100 U	5 U	5 U	
Benzene	100 U	50 U	120 U	100 U	5 U	93 %	
Trans-1,3-Dichloropropene	100 U	50 U	120 U	100 U	5 U	5 U	
Bromoform	100 U	50 U	120 U	100 U	5 U	5 U	
4-Methyl-2-pentanone	200 U	100 U	250 U	200 U	10 U	10 U	
2-Hexanone	200 U	100 U	250 U	200 U	10 U	10 U	
Tetrachloroethene	110	24 J	89 J	43 J	82	76	
1,1,2,2-Tetrachloroethane	100 U	50 U	120 U	100 U	5 U	5 U	

\*= Outside of EPA CLP QC limits.

	Cust ID:	EW-2	EW-3	EW-4	EW-5	EW-6	EW-6
	RFW#:	021	022	023	024	025	025 MS
Toluene		100 U	50 U	120 U	100 U	5 U	90 *
Chlorobenzene		100 U	50 U	120 U	100 U	5 U	90 *
Ethylbenzene		100 U	50 U	120 U	100 U	5 U	5 U
Styrene		100 U	50 U	120 U	100 U	5 U	5 U
Xylene (total)		100 U	50 U	120 U	100 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

014



Cust ID:	EW-6	EW-7	EW-8	EW-8	EW-9	EW-9
Sample RFW#:	025 MSD	026	027	027	028	028
Information Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
D.F.:	1.00	1.00	2.00	2.00	5.00	5.00
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

015

	REPREP	REPREP	REPREP	REPREP	REPREP	REPREP
Toluene-d8	100 %	94 %	104 %	104 %	77 * %	102 %
Surrogate Bromofluorobenzene	110 %	99 %	109 %	104 %	84 * %	104 %
Recovery 1,2-Dichloroethane-d4	114 %	109 %	126 * %	118 * %	112 %	120 * %
===== <u>fl</u> ===== <u>fl</u> ===== <u>fl</u> ===== <u>fl</u> ===== <u>fl</u> ===== <u>fl</u> ===== <u>fl</u> =====						
Chloromethane	10 U	10 U	20 U	20 U	50 U	50 U
Bromomethane	10 U	10 U	20 U	20 U	50 U	50 U
Vinyl Chloride	10 U	10 U	20 U	20 U	50 U	50 U
Chloroethane	10 U	10 U	20 U	20 U	50 U	50 U
Methylene Chloride	3 JB	3 JB	17 B	9 JB	32 B	41 B
Acetone	10 U	10 U	20 U	20 U	50 U	50 U
Carbon Disulfide	5 U	5 U	10 U	10 U	25 U	25 U
1,1-Dichloroethene	95 %	5 U	10 U	10 U	25 U	25 U
1,1-Dichloroethane	5 U	2 J	10 U	10 U	25 U	25 U
1,2-Dichloroethene (total)	1 J	11	28	33	11 J	12 J
Chloroform	5 U	5 U	10 U	10 U	25 U	25 U
1,2-Dichloroethane	5 U	5 U	10 U	10 U	25 U	25 U
2-Butanone	10 U	10 U	20 U	20 U	50 U	50 U
1,1,1-Trichloroethane	5 U	2 J	10 U	10 U	25 U	25 U
Carbon Tetrachloride	5 U	5 U	10 U	10 U	25 U	25 U
Vinyl Acetate	10 U	10 U	20 U	20 U	50 U	50 U
Bromodichloromethane	5 U	5 U	10 U	10 U	25 U	25 U
1,2-Dichloropropane	5 U	5 U	10 U	10 U	25 U	25 U
cis-1,3-Dichloropropene	5 U	5 U	10 U	10 U	25 U	25 U
Trichloroethene	88 %	15	18	17	16 J	14 J
Dibromochloromethane	5 U	5 U	10 U	10 U	25 U	25 U
1,1,2-Trichloroethane	5 U	5 U	10 U	10 U	25 U	25 U
Benzene	91 %	5 U	10 U	10 U	25 U	25 U
Trans-1,3-Dichloropropene	5 U	5 U	10 U	10 U	25 U	25 U
Bromoform	5 U	5 U	10 U	10 U	25 U	25 U
4-Methyl-2-pentanone	10 U	10 U	20 U	20 U	50 U	50 U
2-Hexanone	10 U	10 U	20 U	20 U	50 U	50 U
Tetrachloroethene	74	49	200	170	910	780
1,1,2,2-Tetrachloroethane	5 U	5 U	10 U	10 U	25 U	25 U

\*= Outside of EPA CLP QC limits.

	Cust ID:	EW-6	EW-7	EW-8	EW-8	EW-9	EW-9
	RFW#:	025 MSD	026	027	027	028	028
					REPREP		REPREP
Toluene		96 %	5 U	10 U	10 U	25 U	25 U
Chlorobenzene		94 %	5 U	10 U	10 U	25 U	25 U
Ethylbenzene		5 U	5 U	10 U	10 U	25 U	25 U
Styrene		5 U	5 U	10 U	10 U	25 U	25 U
Xylene (total)		5 U	5 U	10 U	10 U	25 U	25 U

\*= Outside of EPA CLP QC limits.

016

Roy F. Weston, Inc. - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 12/11/96 08:36

RFW Batch Number: 9611L217

Client: BLACK AND DECKER

Work Order: 02501004001 Page: 7a

Sample Information	Cust ID:	EW-10	EW-10 DUP	RFW-16 DUP	RFW-16 DUP	HAMP-23	HAMP-22
	RFW#:	029	030	031	031 DL	032	033
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	250	500	1.00	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate Toluene-d8		95 %	104 %	103 %	100 %	98 %	102 %
Bromofluorobenzene		97 %	100 %	98 %	100 %	95 %	101 %
Recovery 1,2-Dichloroethane-d4		104 %	106 %	105 %	109 %	96 %	118 * %
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====							
Chloromethane		10 U	10 U	2500 U	5000 U	10 U	10 U
Bromomethane		10 U	10 U	2500 U	5000 U	10 U	10 U
Vinyl Chloride		10 U	10 U	2500 U	5000 U	10 U	10 U
Chloroethane		10 U	10 U	2500 U	5000 U	10 U	10 U
Methylene Chloride		5 JB	8 B	2000 B	1800 JBD	10 B	7 B
Acetone		10 U	10 U	2500 U	5000 U	54 B	14 B
Carbon Disulfide		5 U	5 U	1200 U	2500 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	1200 U	2500 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	1200 U	2500 U	5 U	5 U
1,2-Dichloroethene (total)		5 U	5 U	1200 U	2500 U	5 U	5 U
Chloroform		5 U	5 U	1200 U	2500 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	1200 U	2500 U	5 U	5 U
2-Butanone		10 U	10 U	2500 U	5000 U	10 U	10 U
1,1,1-Trichloroethane		5 U	5 U	1200 U	2500 U	5 U	5 U
Carbon Tetrachloride		5 U	5 U	1200 U	2500 U	5 U	5 U
Vinyl Acetate		10 U	10 U	2500 U	5000 U	10 U	10 U
Bromodichloromethane		5 U	5 U	1200 U	2500 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	1200 U	2500 U	5 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	1200 U	2500 U	5 U	5 U
Trichloroethene		1 J	1 J	57000 E	51000 D	5 U	5 U
Dibromochloromethane		5 U	5 U	1200 U	2500 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	1200 U	2500 U	5 U	5 U
Benzene		5 U	5 U	1200 U	2500 U	5 U	5 U
Trans-1,3-Dichloropropene		5 U	5 U	1200 U	2500 U	5 U	5 U
Bromoform		5 U	5 U	1200 U	2500 U	5 U	5 U
4-Methyl-2-pentanone		10 U	10 U	2500 U	5000 U	10 U	10 U
2-Hexanone		10 U	10 U	2500 U	5000 U	10 U	10 U
Tetrachloroethene		140	110	1200 U	2500 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	1200 U	2500 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

017

Cust ID: EW-10 EW-10 DUP RFW-16 DUP RFW-16 DUP HAMP-23 HAMP-22

RFW#: 029 030 031 031 DL 032 033

Toluene	5 U	5 U	1200 U	2500 U	5 U	5 U
Chlorobenzene	5 U	5 U	1200 U	2500 U	5 U	5 U
Ethylbenzene	5 U	5 U	1200 U	2500 U	5 U	5 U
Styrene	5 U	5 U	1200 U	2500 U	5 U	5 U
Xylene (total)	5 U	5 U	1200 U	2500 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

018

Roy F. Weston, Inc. - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 12/11/96 08:36

RFW Batch Number: 9611L217

Client: BLACK AND DECKER

Work Order: 02501004001 Page: 8a

Sample Information	Cust ID:	HAMP-22	LEISTER DAIR Y	LEISTER-1	TRIP BLANK	TRIP BLANK	FB-RFW-7
	RFW#:	033	034	035	036	036	037
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		REPREP				REPREP	
Surrogate	Toluene-d8	88 %	109 %	96 %	98 %	102 %	109 %
Recovery	Bromofluorobenzene	83 * %	94 %	90 %	120 * %	100 %	100 %
	1,2-Dichloroethane-d4	94 %	105 %	108 %	121 * %	96 %	117 * %
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====							
	Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U
	Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U
	Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U
	Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U
	Methylene Chloride	6 B	6 B	6 B	9 B	5 B	9 B
	Acetone	10 U	10 U	10 U	10 U	10 U	10 U
	Carbon Disulfide	5 U	5 U	5 U	5 U	5 U	5 U
	1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U
	1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U
	1,2-Dichloroethene (total)	5 U	5 U	5 U	5 U	5 U	5 U
	Chloroform	5 U	5 U	5 U	5 U	5 U	5 U
	1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U
	2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U
	1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U
	Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U
	Vinyl Acetate	10 U	10 U	10 U	10 U	10 U	10 U
	Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U
	1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U
	cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U
	Trichloroethene	5 U	5 U	5 U	5 U	5 U	5 U
	Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U
	1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U
	Benzene	5 U	5 U	5 U	5 U	5 U	5 U
	Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U
	Bromoform	5 U	5 U	5 U	5 U	5 U	5 U
	4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U	10 U
	2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U
	Tetrachloroethene	5 U	4 J	5 U	5 U	5 U	5 U
	1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

619

Cust ID: HAMP-22 LEISTER DAIR LEISTER-1 TRIP BLANK TRIP BLANK FB-RFW-7

Y

RFW#: 033 034 035 036 036 037

REPREP

REPREP

Toluene	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

020

Sample Information	Cust ID:	FB-RFW-7	VBLKWI	VBLKWI BS	VBLKYP	VBLKYM	VBLKYO
RFW#:	037	96LVW241-MB1	96LVW241-MB1	96LVW244-MB1	96LVW240-MB1	96LVW243-MB1	
Matrix:	WATER	WATER	WATER	WATER	WATER	WATER	
D.F.:	1.00	1.00	1.00	1.00	1.00	1.00	
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	

REPREP

Surrogate	Recovery	Toluene-d8	Bromofluorobenzene	1,2-Dichloroethane-d4	100 %	99 %	115 * %	101 %	104 %	108 %	92 %	102 %	101 %
					100 %	99 %	115 * %	101 %	104 %	108 %	92 %	102 %	101 %

Compound	FB-RFW-7	VBLKWI	VBLKWI BS	VBLKYP	VBLKYM	VBLKYO
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	9 B	1 J	2 JB	5 J	6	6
Acetone	10 U	3 J	10 U	3 J	6 J	10 U
Carbon Disulfide	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	89 %	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	93 %	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5 U	5 U	89 %	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

021

Cust ID: FB-RFW-7 VBLKWI VBLKWI BS VBLKYP VBLKYM VBLKYO

RFW#: 037 96LVW241-MB1 96LVW241-MB1 96LVW244-MB1 96LVW240-MB1 96LVW243-MB1

REPREP

	037	96LVW241-MB1	96LVW241-MB1	96LVW244-MB1	96LVW240-MB1	96LVW243-MB1
Toluene	5 U	5 U	92 %	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	89 %	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

022





Cust ID: VBLKYC VBLKYN VBLKXH

RFW#: 96LVW245-MB1 96LVW242-MB1 96LVB221-MB1

Toluene	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U
Styrene	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

024

Roy F. Weston, Inc. - Lionville Laboratory  
 VOA ANALYTICAL DATA PACKAGE FOR  
 BLACK AND DECKER

DATE RECEIVED: 11/14/96

RFW LOT # :9611L217

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
RFW-9	001	W	96LVW241	11/13/96	N/A	11/23/96
RFW-9	001 MS	W	96LVW241	11/13/96	N/A	11/23/96
RFW-9	001 MSD	W	96LVW241	11/13/96	N/A	11/23/96
RFW-12B	002	W	96LVW244	11/13/96	N/A	11/26/96
RFW-11A	003	W	96LVW240	11/13/96	N/A	11/22/96
RFW-11B	004	W	96LVW240	11/13/96	N/A	11/22/96
RFW-4A	005	W	96LVW241	11/13/96	N/A	11/23/96
RFW-4B	006	W	96LVW244	11/13/96	N/A	11/26/96
RFW-13	007	W	96LVW240	11/13/96	N/A	11/22/96
RFW-10	008	W	96LVW243	11/13/96	N/A	11/25/96
RFW-8	009	W	96LVW243	11/13/96	N/A	11/25/96
RFW-16	010	W	96LVW244	11/13/96	N/A	11/27/96
RFW-16	010	D1	W 96LVW245	11/13/96	N/A	11/27/96
RFW-18	011	W	96LVW240	11/12/96	N/A	11/22/96
RFW-19	012	W	96LVW240	11/12/96	N/A	11/22/96
RFW-17	013	W	96LVW240	11/12/96	N/A	11/22/96
RFW-7	014	W	96LVW240	11/12/96	N/A	11/22/96
RFW-1A	015	W	96LVW240	11/12/96	N/A	11/22/96
RFW-2A	016	W	96LVW240	11/12/96	N/A	11/22/96
RFW-2B	017	W	96LVW243	11/12/96	N/A	11/25/96
RFW-3B	018	W	96LVW240	11/12/96	N/A	11/23/96
RFW-6	019	W	96LVW240	11/13/96	N/A	11/23/96
RFW-1B	020	W	96LVW240	11/13/96	N/A	11/23/96
RFW-1B	020	R1	W 96LVW243	11/13/96	N/A	11/25/96
EW-2	021	W	96LVW243	11/13/96	N/A	11/25/96
EW-3	022	W	96LVW242	11/13/96	N/A	11/24/96
EW-4	023	W	96LVW244	11/12/96	N/A	11/26/96
EW-5	024	W	96LVW243	11/12/96	N/A	11/25/96
EW-6	025	W	96LVW241	11/12/96	N/A	11/23/96
EW-6	025 MS	W	96LVW241	11/12/96	N/A	11/23/96
EW-6	025 MSD	W	96LVW241	11/12/96	N/A	11/23/96
EW-7	026	W	96LVW241	11/12/96	N/A	11/23/96
EW-8	027	W	96LVW242	11/12/96	N/A	11/24/96
EW-8	027	R1	W 96LVW244	11/12/96	N/A	11/26/96
EW-9	028	W	96LVW243	11/12/96	N/A	11/25/96
EW-9	028	R1	W 96LVW244	11/12/96	N/A	11/26/96
EW-10	029	W	96LVW243	11/12/96	N/A	11/25/96
EW-10 DUP	030	W	96LVW244	11/12/96	N/A	11/26/96

Roy F. Weston, Inc. - Lionville Laboratory  
 VOA ANALYTICAL DATA PACKAGE FOR  
 BLACK AND DECKER

DATE RECEIVED: 11/14/96

RFW LOT # :9611L217

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS	
RFW-16 DUP	031		W	96LVW244	11/13/96	N/A	11/27/96
RFW-16 DUP	031	D1	W	96LVW245	11/13/96	N/A	11/27/96
HAMP-23	032		W	96LVW242	11/12/96	N/A	11/24/96
HAMP-22	033		W	96LVW242	11/12/96	N/A	11/24/96
HAMP-22	033	R1	W	96LVW243	11/12/96	N/A	11/25/96
LEISTER DAIRY	034		W	96LVW243	11/12/96	N/A	11/25/96
LEISTER-1	035		W	96LVW243	11/12/96	N/A	11/25/96
TRIP BLANK	036		W	96LVW242	11/12/96	N/A	11/24/96
TRIP BLANK	036	R1	W	96LVB221	11/12/96	N/A	11/27/96
FB-RFW-7	037		W	96LVW242	11/12/96	N/A	11/24/96
FB-RFW-7	037	R1	W	96LVW244	11/12/96	N/A	11/26/96

LAB QC:

VBLKWI	MB1		W	96LVW241	N/A	N/A	11/23/96
VBLKWI	MB1 BS		W	96LVW241	N/A	N/A	11/23/96
VBLKYP	MB1		W	96LVW244	N/A	N/A	11/26/96
VBLKYM	MB1		W	96LVW240	N/A	N/A	11/22/96
VBLKYO	MB1		W	96LVW243	N/A	N/A	11/25/96
VBLKYC	MB1		W	96LVW245	N/A	N/A	11/27/96
VBLKYN	MB1		W	96LVW242	N/A	N/A	11/24/96
VBLKXH	MB1		W	96LVB221	N/A	N/A	11/26/96

027

WESTON Analytics Use Only  
 961127

## Custody Transfer Record/Lab Work Request

Client <u>BLK + DECKA</u>		Refrigerator # _____
Est. Final Proj. Sampling Date _____		#/Type Container <u>Liquid 2</u>
Work Order # <u>02501-004-001-0000-00</u>		Volume <u>Liquid 40ml</u>
Project Contact/Phone # <u>Chris H 7203</u>		Preservatives <u>HCl</u>
AD Project Manager <u>Diana Saeggs</u>		ANALYSES REQUESTED →
QC <u>STD</u> Del <u>STD TAT 14 DAY</u>		
Date Rec'd <u>11/14/96</u>	Date Due <u>Standard 11-28-96</u>	ORGANIC
Account # <u>BLK + DECKA</u>		VOA BNA Pest/PCB Herb
		INORG
		Metal CN

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only														
			MS	MSD																		
			0624H																			
	01	RFW-9			W	11/13/96	810	✓														
	12	RFW-12B					1400	✓														
	3	RFW-11A					1010	✓														
	4	RFW-11B					1005	✓														
	5	RFW-4A					1120	✓														
	6	RFW-4B					1410	✓														
	7	RFW-13					1230	✓														
	8	RFW-10					1300	✓														
	9	RFW-8					1310	✓														
	010	RFW-16					1340	✓														

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions: \_\_\_\_\_

**DATE/REVISIONS:**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were:  
 1) Shipped  or Hand Delivered   
 Airbill # \_\_\_\_\_  
 2) Ambient or Chilled  
 3) Received in Good Condition  or N  
 4) Labels Indicate Properly Preserved  or N  
 5) Received Within Holding Times  or N

COC Tape was:  
 1) Present on Outer Package Y or N  
 2) Unbroken on Outer Package Y or N  
 3) Present on Sample Y or N  
 4) Unbroken on Sample Y or N  
 COC Record Present Upon Sample Rec'l Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<u>[Signature]</u>	<u>[Signature]</u>	<u>11/14/96</u>	<u>1050</u>				

Temp = 5.0°  
 Temp = 5.1°

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

WESTON Analytics Use Only

9611217

# Custody Transfer Record/Lab Work Request

Client <u>B+N (cont)</u>		Refrigerator #	1
Est. Final Proj. Sampling Date		#/Type Container	Liquid 2
Work Order # <u>02501-004-001</u>		Solid	
Project Contact/Phone # <u>Chris [unclear] 203</u>		Volume	Liquid <u>40ml</u>
AD Project Manager <u>Diana Suggs</u>		Solid	
QC	Del	Preservatives	<u>HC</u>
Date Rec'd <u>11/14/96</u>	Date Due <u>Standard</u>	ANALYSES REQUESTED	
Account #		ORGANIC	
		VOA	BNA
		Pest/PCB	Herb
			INORG
			Metal
			CN

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only													
			MS	MSD				06244													
	11	RFW-18			W	11/12/96	915	✓													
	12	RFW-19					940	✓													
	13	RFW-17					1010	✓													
	14	REW-7					1030	✓													
	15	RFW-1A					1110	✓													
	16	RFW-2A					1345	✓													
	17	RFW-2B					1415	✓													
	18	RFW-3B					1545	✓													
	19	RFW-6				11/13/96	1050	✓													
	020	RFW-1B				11/13/96	1345	✓													

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:

- DATE/REVISIONS:
- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # _____ 2) Ambient or Chilled _____ 3) Received in Good Condition Y or N 4) Labels Indicate Properly Preserved Y or N 5) Received Within Holding Times Y or N	COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N COC Record Present Upon Sample Rec't Y or N
--	--

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<u>[Signature]</u>	<u>[Signature]</u>	<u>11/14/96</u>	<u>1050</u>				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

028

90116217

# Custody Transfer Record/Lab Work Request



029 PM 620

Client <b>B+D (cont)</b>		Refrigerator #	1										
Est. Final Proj. Sampling Date		#/Type Container	Liquid	2									
Work Order # <b>02501-004-001-</b>			Solid										
Project Contact/Phone # <b>Chris Harris x3203</b>		Volume	Liquid	4.2L									
AD Project Manager <b>Dyan Sages</b>			Solid										
QC _____ Del <b>TAT</b>		Preservatives	<b>HCl</b>										
Date Rec'd <b>11/14/96</b> Date Due <b>Standard</b>		ANALYSES REQUESTED →	ORGANIC					INORG					
Account # _____			VOA	BNA	Pest/PCB	Herb	Metal	CN					

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only												
			MS	MSD				06/24/96												
	021	EW-2			W	11/13/96	0850	✓												
	22	EW-3				11/12/96	900	✓												
	23	EW-4				11/12/96	1210	✓												
	24	EW-5					1200	✓												
	25	EW-6					1500	✓												
	26	EW-7					1510	✓												
	27	EW-8					1520	✓												
	28	EW-9					1530	✓												
	29	EW-10					1540	✓												
	030	EW-10 Dup					1540	✓												

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:

**DATE/REVISIONS:**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were:  Shipped or Hand Delivered  Airbill # \_\_\_\_\_

2) Ambient or Chilled \_\_\_\_\_

3) Received in Good Condition Y or N \_\_\_\_\_

4) Labels Indicate Properly Preserved Y or N \_\_\_\_\_

5) Received Within Holding Times Y or N \_\_\_\_\_

COC Tape was:  Present on Outer Package Y or N \_\_\_\_\_

2) Unbroken on Outer Package Y or N \_\_\_\_\_

3) Present on Sample Y or N \_\_\_\_\_

4) Unbroken on Sample Y or N \_\_\_\_\_

COC Record Present Upon Sample Rec'l Y or N \_\_\_\_\_

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<i>Chris Harris</i>	<i>Dyan Sages</i>	11/14/96	1050				

Discrepancies Between Samples Labels and COC Record? Y or N \_\_\_\_\_

NOTES:

WESTON Analytics Use Only

961127

# Custody Transfer Record/Lab Work Request

WESTON  
Page 2 of 2

Client <u>R+D (Cont)</u>		Refrigerator #	1
Est. Final Proj. Sampling Date		#/Type Container	Liquid 2
Work Order # <u>02501-004-001</u>		Solid	
Project Contact/Phone # <u>Chris Harris 7203</u>		Volume	Liquid <u>450</u>
AD Project Manager <u>Nyasa Saggay</u>		Solid	
QC		Preservatives	<u>HCl</u>
Del <u>TAT</u>		ANALYSES REQUESTED	
Date Rec'd <u>11/14/96</u>		Date Due <u>Standard</u>	
Account #		ORGANIC	
		VOA	BNA
		Pes/PCB	Herb
		INORG	
		Metal	CN

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only											
			MS	MSD				1	2	3	4	5	6	7	8				
	031	RFW-16 DUP			W	11/13/96	1340	✓											
	32	HAMP-23			I	11/12/96	1335	✓											
	33	HAMP-22			I		1340	✓											
	34	LEISTER-DAIRY			I		1730	✓											
	35	LEISTER-1			I		1735	✓											
	36	Trip Blank			I		-	✓											
	037	FB-RFW-7			I		1015	✓											

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

*Temp = 5.10*

DATE/REVISIONS:

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WESTON Analytics Use Only

Samples were:

- 1) Shipped  or Hand Delivered  Airbill # \_\_\_\_\_
- 2) Ambient or Chilled
- 3) Received in Good Condition  Y or N
- 4) Labels Indicate Properly Preserved  Y or N
- 5) Received Within Holding Times  Y or N

COC Tape was:

- 1) Present on Outer Package  Y or N
- 2) Unbroken on Outer Package  Y or N
- 3) Present on Sample  Y or N
- 4) Unbroken on Sample  Y or N
- COC Record Present Upon Sample Rec'l  Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	11/14/96	1050				

Discrepancies Between Samples Labels and COC Record? Y or N

NOTES: