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SUPPLEMENTAL INVESTIGATION REPORT

Prepared for:

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

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This Supplemental Investigation Report has been prepared to present the findings of the Supplemental Remedial Work Plan (WESTON, 1995) activities. The Supplemental Remedial Work Plan was prepared to meet the requirements of Condition IV.U 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). A summary of the Supplemental Remedial Work Plan activities, including the fracture trace analysis, lagoon sampling, and brush pile investigation, is presented in Section 2. The results of these activities are included in Section 3. Conclusions are presented in Section 4. This document will become part of the Administrative Record for the site, which is maintained at the Hampstead Public Library.



SECTION 2 INVESTIGATIVE ACTIVITIES

2.1 FRACTURE TRACE ANALYSIS

As requested by the MDE, a fracture trace analysis was completed at the site in order to identify potential preferred zones of groundwater movement. Fracture traces are "...natural linear features consisting of topographic (including straight stream segments), vegetation, or soil tonal alignment, visible primarily on aerial photographs and expressed continuously for less than one mile." (Lattman, 1958). The significance of fracture traces is that they have often been found to be expressions of zones of higher fracture concentrations, and fracture traces, in some hydrogeologic settings, can be considered to be locations for increased groundwater flow (Parizek, 1976).

The fracture trace analysis was completed using procedures outlined in the Supplemental Remedial Work Plan (WESTON, 1995). In order to perform a fracture trace analysis of the general site area, stereographic pairs of aerial photographs spanning the years 1959 to 1987 were analyzed. Each stereo pair consisted of at least two consecutive aerial photographs with overlapping coverage of an area that created a three-dimensional image when viewed through a stereoscope.

Historical aerial photographs are useful in assessing fracture traces under natural conditions and during different seasons. Aerial photographs taken prior to site development provide useful information on the initial natural conditions in the site area, because cultural features tend to obscure fracture traces. Photographs taken at different seasons allow seasonal effects to be identified. For example, during the summer, vegetation may obscure features that are visible in the winter; conversely, patterns of vegetation growth during the spring or summer can be suggestive of fracture trends.

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Aerial photographs differ in their scale and aerial coverage. Aerial photographs at finer scale resolutions tend to show detail that coarser scale resolution aerial photographs do not, and coarser scale resolution aerials photographs tend to show large features that are not observable on finer resolution photographs.

For this analysis, the three-dimensional images of the stereo pairs of photographs were examined to observe features such as tonal changes, vegetative patterns, stream paths and other features that may be indicative of fracture traces. The observed traces were annotated on overlays to the photographs. The overlays were then enlarged or reduced as appropriate to the same approximate scale as a U.S.G.S. 7.5 minute quadrangle map (1:24,000) of the site area and the locations of the identified fracture traces were transferred on to the topographic map. The results of the fracture trace analysis are discussed in Section 3.

2.2 LAGOON SAMPLING

Two surface water impoundments (lagoons) are present at the Hampstead facility. These lagoons, identified as the East and West Lagoons, are shown on Figure 2-1. The East Lagoon is used to hold process water prior to treatment in the plant's physical/chemical treatment system. The West Lagoon is used to hold storm water, cooling water, and treated plant process water for fire protection and cooling purposes.

Surface water and sediments in the East and West Lagoons were originally sampled during 1987. Low concentrations of target compounds were detected in 5 of the 13 samples collected during that event, and, as a result, the lagoons were not considered to represent a source area or to require any additional action. However, based on MDE's request, the recent sampling events (described below) were performed to confirm earlier findings.

During August 1996 and February 1997, surface water and sediment samples were collected from the East and West Lagoons. During each round, three surface water and three sediment samples were collected from each of the two surface impoundments. A



FIGURE 2-1 LAGOON SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS Supplemental Investigation Report Black & Decker Hampstead, Maryland



summary of the lagoon samples is presented in Table 2-1. The sampling locations were evenly spaced within each lagoon and the approximate locations are presented on Figure 2-1. Samples were collected following procedures described in the Sampling and Analysis Plan (SAP) (WESTON, 1995) and are described in the following subsections.

2.2.1 Surface Water Sampling

Surface water samples were collected by use of a Kemmerer Sampler, permitting the collection of water samples from discrete depths in the water column. Samples were collected at depths of approximately two-thirds of the distance from the surface to the bottom of the lagoon. Each location was sampled for volatile organic compounds (VOCs). All sampling equipment was decontaminated between sampling locations following procedures described in the SAP.

2.2.2 Sediment Sampling

Sediment samples were collected using a Ponar dredge sampler. This sample device allows for the collection of discrete samples of sediment with minimal disturbance. Each sample was analyzed for VOCs. All sampling equipment was decontaminated between sampling locations following procedures described in the SAP.

2.3 BRUSH PILE INVESTIGATION

At the request of the MDE, as set forth in the Consent Order, on 5 August 1996, representatives from the MDE and WESTON met with Mr. Carol Leister at the 'brush pile" area along the western property boundary of the site. The brush pile is a location away from plant operations, adjacent to a wooded area, where deadfalls and vegetative debris from routine trimming of overgrowth has been stockpiled and allowed to decompose. Mr. Leister indicated several locations adjacent to the brush pile where he believed buried materials were located. These areas were marked and staked for the test pitting operations. On 8 August 1996, the

Table 2-1 Summary of Lagoon Surface Water and Sediment Samples Black & Decker Hampstead, Maryland

Sample Location	Surface Water Sample ID	Sediment Sample ID	Sample Date	Analysis VOC
East Lago	on			
EL01	EL01-01-SW	EL01-01-SED	7-Aug-96	Х
	EL01-02-SW	EL01-02-SED	20-Feb-97	X
EL02	EL02-01-SW	EL02-01-SED	7-Aug-96	Х
1	EL02-02-SW	EL02-02-SED	20-Feb-97	X
EL03	EL03-01-SW	EL03-01-SED	7-Aug-96	X
	EL03-02-SW	EL03-02-SED	20-Feb-97	X
West Lago)on			
WL01	WL01-01-SW	WL01-01-SED	7-Aug-96	Х
	WL01-02-SW	WL01-02-SED	20-Feb-97	X
WL02	WL02-01-SW	WL02-01-SED	7-Aug-96	X
	WL02-02-SW	WL02-02-SED	20-Feb-97	X
WL03	WL03-01-SW	WL03-01-SED	7-Aug-96	X
	WL03-02-SW	WL03-02-SED	20-Feb-97	X

VOC - Volatile organic compounds



surficial brush pile material was removed and staged in the open field east of the brush pile area.

2.3.1 Geophysical Survey

On 13 August 1996, a geophysical investigation was conducted at the brush pile area using a combination of electromagnetic (EM) terrain conductivity and magnetometry (MAG) methods. The objective of the investigation was to locate and delineate (if present) the location of buried ferrous material, within the general area identified by Mr. Leister, to supplement the specific locations at which Mr. Leister believed disposal had been performed in the past.

Prior to the start of the survey, a 200- by 150-foot survey grid was established over the site to provide a means of surface control during data collection. The survey grid was established based on a relative coordinate system using existing monuments and land features. EM and MAG measurements were taken at least every 5 feet along grid lines spaced every 10 feet.

2.3.1.1 Electromagnetic (EM) Terrain Conductivity Methods

Description

The EM survey was conducted using a Geonics, Ltd. EM-31[™] terrain conductivity meter. The EM-31 is battery-powered and operates at a frequency of 9.8 kilohertz (kHz). This system consists of a transmitting coil (primary field source), receiving coil (sensor), phase sensing circuits, and an amplifier. A fixed 3.7-meter intercoil spacing is standard for the EM-31. The instrument measures apparent conductivity in units of millisiemens per meter (mS/m) in materials with true conductivities ranging up to 1,000 mS/m.

The EM-31 was operated in both the quadrature and in-phase components. The quadrature component is sensitive to conductors with low induction numbers (i.e., low conductivity materials). Relative conductivity values associated with in-phase measurements have a greater



sensitivity to buried metal objects. Negative in-phase and quadrature conductivity values were observed at areas of the site. This phenomenon occurred as a result of the transmitting and receiving coils of the instrument straddling a metallic conductor (e.g., surface debris or buried metal). Once out of the influence of the metallic interference, the conductivity again returned to that of the normal soil (background).

Methodology

Prior to conducting the survey, the EM-31 was calibrated in accordance with the instrument operating manual. No anomalies were observed in the calibration data. When calibration was completed, both the quadrature and in-phase components were measured at the site. Conductivity measurements were obtained in the vertical dipole mode of operation for single layer mapping. The effective depth of exploration associated with this mode of operation is approximately 18 feet (McNeill, 1980).

The EM-31 was operated in a 'continuous' mode along pre-established survey grid lines. Measurements were recorded continuously at 5-foot intervals as the operator traversed the line. These measurements were digitally recorded and stored in memory in an Omni Data LoggerTM. Random QA/QC readings were obtained from the EM-31 analog meter and manually recorded in the field notebook. The data in memory were downloaded from the data logger to a field computer. The computer-generated output files were formatted, then compared against the random QA/QC readings recorded in the field logbook. Based on the QA/QC review of the data, no deficiencies were observed in the digitally recorded data.

Conductivity contour plots were prepared from the field data using GeosoftTM contour plotting software. The contour plots were interpreted with regard to site soil characteristics, site-specific geology, and the suspected presence of buried waste materials. The results of the EM survey were used to direct test pit operations and are discussed in Section 3.

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2.3.1.2 Magnetic (MAG) Methods

Description

The MAG survey was performed using a GEOMETRICS G-858 cesium vapor Gradiometer/Magnetometer. The instrument operates on the principle of a self oscillating splitbeam cesium vapor (non radioactive CS133) source. This magnetometer generates a small signal whose frequency is proportional to the intensity of the total magnetic field. Local perturbation (induced magnetization) generated by anthropogenic (i.e., buried ferrous debris) and natural (i.e., magnetic mineral deposits) features add to the intensity of the ambient magnetic field. The magnetometer measures the vector sum of the earth's magnetic field and the anomalous induced magnetic field in standard nanoTesla (nT) units.

The G-858 Magnetometer/Gradiometer system is comprised of a console with an LCD screen connected to a cesium sensor mounted on a counterbalanced staff. The console displays the magnetic field and horizontal position data, stores high volumes of data in memory; and transmits the data at high speed to a processing computer for detailed analysis. The G-858 allows for data acquisition at either continuous or discrete station recording. The continuous mode was utilized for this survey and provides both a rapid sampling rate and high data quality.

Methodology

Consistent with the EM-31 survey, the magnetometer was operated in a 'continuous' mode along the same pre-established survey grid lines. In the continuous mode, MAG measurements were recorded on approximately 2-foot spacing intervals as the operator traversed the line. Both the total field and magnetic gradient were measured at each station point throughout the survey area. MAG measurements were digitally recorded and stored in memory in the instrument's data logger.



The data in memory were downloaded from both data loggers to a field computer. Diurnal effects were considered negligible relative to the overall range of magnetic data and short time duration of the survey. Therefore, a base station magnetometer was not needed to monitor variations in the Earth's magnetic field.

Contour plots of both the total magnetic field and magnetic gradient were prepared from the field data using GeosoftTM contour plotting software. Each magnetic anomaly (high gradient area) was analyzed with respect to cultural features present on the surface, and the potential ferrous magnetic sources buried in the subsurface. The expected configuration of a magnetic anomaly associated with a buried ferrous magnetic sources or other dipole sources is a magnetic 'high" and 'low" pair with almost concentric contours. Strong anomalies of this type were identified on the magnetic contour plots and are discussed in Section 3.

2.3.2 Test Pit Excavations

On 14 August 1996, eight test pits were excavated at the brush pile area. Test pit excavations were performed using a backhoe and were excavated to either the water table, to refusal, or to the maximum reach of the backhoe, whichever was encountered first. An OVM photoionization meter was used for air monitoring and a combustible gas meter was used to monitor gas emissions from the test pits. A summary of the soil and groundwater samples collected from the test pit excavations is presented in Table 2-2. The backhoe deposited the material to be sampled on plastic sheeting, and samples were collected using decontaminated stainless steel trowels and/or scoopulas. Complete logs, including visual descriptions of lithology, observations of groundwater occurrence, and instrument readings, were completed and are included in Appendix A. In addition, photographs were taken of each test pit during excavation and/or upon completion and are included in Appendix B.

Test pit locations are presented in Figure 2-2. Test pits TP-1 and TP-2 were excavated at locations based on Mr. Leister's observations. Test pits TP-6, TP-7, and TP-8 were located in the center of the brush pile area based on the anomalies observed during the geophysical

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Table 2-2Summary of Test Pit Soil and Groundwater SamplesBlack & DeckerHampstead, Maryland

Test Pit ID	Soil Sample ID	Groundwater Sample ID	Sample Date	Analysis VOC
TP-1	NS	NS		
TP-2	TP-96-2	NS	14-Aug-96	X
TP-3	TP-96-3	NS	14-Aug-96	Х
TP-4	TP-96-4	NS	14-Aug-96	X
TP-5	TP-96-5	NS	14-Aug-96	Х
TP-6	TP-96-6	TP-96-6	14-Aug-96	X
TP-7	TP-96-7	NS	14-Aug-96	Х
TP-8	NS	NS		

NS - Not Sampled

ft bgs - feet below ground surface

VOC - Volatile organic compounds





investigation. Test pits TP-3, TP-4, and TP-5 were located throughout the remainder of brush pile area to provide complete geographic coverage of the area.



SECTION 3

RESULTS OF INVESTIGATIVE ACTIVITIES

3.1 FRACTURE TRACE ANALYSIS

Identified fracture traces were transferred to a topographic map of the site and surrounding area and are presented on Figure 3-1. Figure 3-2 presents the azimuths of the fracture traces plotted on a rose diagram to assess the preferred orientations for fracture traces. The azimuths of the traces were measured and tallied for each 20° arc of the compass. The total number of traces for each arc is represented by the distance the shading extends from the center of the circle. As seen in Figure 3-2, the primary set (most number of traces) trends N20°W to N20°E. The other sets of traces trend N80°E to S80°E, N40°E to N60°E, and N40°W to N60°W.

Meyer (1958) reports that for Carroll County, Maryland, the principal strike of the schistosity ranges from N36°E to N46°E. The N40°E to N60°E set of traces in the site area probably represents the strike of the schistosity. The N40°W to N60°W set of traces which is 90° from to the N40°E to N60°E set of traces probably represent the dip of the schistosity. The other two sets, N20°W to N20°E and N80°E to S80°E, are approximately 90° from each other.

Field checking of the identified fracture traces was performed during August 1996 and involved determining if the photolineations mapped from the aerial photographs were actually cultural features (e.g., pipelines or plow lines) or natural features (e.g., stream alignments or shallow depressions) by attempting to locate and walk the features tentatively identified as fracture traces. Field checking also included observing whether there are other surface expressions of the fracture traces, such as slight depressions, swales or vegetation changes. The fracture traces located in the site area that were confirmed by the field checking are presented on Figure 3-3.





-1 REGIONAL FRACTURE TRACE MAP Supplemental Investigation Report Black & Decker Hampstead, Maryland









3.2 LAGOON SAMPLING

3.2.1 Surface Water

Tables 3-1 and 3-2 present summaries of the analytical results of the surface water samples collected from the lagoons during August 1996 and February 1997, respectively. The complete analytical data packages are included in Appendix C.

The analytical results indicate that no significant concentrations of VOCs above quantification limits were detected in the surface water, except for low levels of constituents, which were also found in the laboratory blanks.

3.2.2 Sediment

Tables 3-3 and 3-4 present summaries of the analytical results of the sediment samples collected from the lagoons during August 1996 and February 1997, respectively. The complete analytical data packages are included in Appendix C.

During both sampling rounds, low concentrations of 2-butanone were detected in some of the sediment samples collected from both the East and West Lagoons. Low concentrations of benzene were also detected in the sediment samples collected from the East Lagoon. In addition, low levels of constituents, which were also found in the laboratory blanks, were detected in the sediment samples collected from both the East and West Lagoons.

Table 3-1 Summary of Lagoon Surface Water Analytical Results - August 1996 Black & Decker Hampstead, Maryland

		EAST LAGOON			TRIP				
PARAMETER	Units	EL01-01-SW	EL02-01-SW	EL03-01-SW	WL01-01-SW	WL01-01-SW (DUPLICATE)	WL02-01-SW	WL03-01-SW	BLANK
Chloromethane	ug/L	10 U	10 U	10 U	10 Ü	10 U	10 U	10 U	10 U
Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethanane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	5 JB	11 B	3 JB	2 BJ	1 JB	2 JB	6 B	2 JB
Acetone	ug/L	19 B	22 B	25 B	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	ug/L	4 J	4 J	2 J	0.9 J	1 J	1 J	1 J	5 U
1,2-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	1 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

J = Indicates an estimated value.

B = Indicates that the analyte was found in the associated blank as well as in the sample.

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Table 3-2 Summary of Lagoon Surface Water Analytical Results - February 1997 Black & Decker Hampstead, Maryland

		EAST LAGOON		WEST LAGOON			TRIP		
PARAMETER	Units	EL01-02-SW	EL01-02-SW	EL02-02-SW	EL03-02-SW	WL01-02-SW	WL02-02-SW	WL03-02-SW	BLANK
			(DUPLICATE)						
Chloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethanane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	8 B	3 JB
Acetone	ug/L	54 B	53 B	53 B	54 B	13 B	13 B	12 B	10 U
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	5 U	5 U .	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	ug/L	3 J	3 J	3 J	3 J	5. U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xvlene (total)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

J = Indicates an estimated value.

B = Indicates that the analyte was found in the associated blank as well as in the sample.

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Taber 3-3 Summary of Lagoon Sediment Analytical Results - August 1996 Black & Decker Hampstead, Maryland

		EAST LAGOON				WEST LAGOON		
PARAMETER	Units	EL01-01-SED	EL02-01-SED	EL02-01-SED	EL03-01-SED	WL01-01-SED	WL02-01-SED	WL03-01-SED
				(DUPLICATE)				
Chloromethane	ug/Kg	15000 U	120 U	12000 U	4200 U	28 U	50 U	52 U
Bromomethane	ug/Kg	15000 U	120 U	12000 U	4200 U	28 U	50 U	52 U
Vinyl Chloride	ug/Kg	15000 U	120 U	12000 U	4200 U	28 U	50 U	52 U
Chloroethanane	ug/Kg	15000 U	120 U	12000 U	4200 U	28 U	50 U	52 U
Methylene Chloride	ug/Kg	25000 B	170 B	8700 B	1400 JB	35 B	69 B	56 B
Acetone	ug/Kg	9900 BJ	950 B	7300 JB	1900 JB	160 B	740 B	100 B
Carbon Disulfide	ug/Kg	7700 U	29 J	6100 U	2100 U	14 U	25 U	26 U
1,1-Dichloroethene	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
1,1-Dichloroethane	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
1,2-Dichloroethene (total)	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Chloroform	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
1,2-Dichloroethane	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 Ú
2-Butanone	ug/Kg	15000 U	250	12000 U	4200 U	34	170	26 J
1,1,1-Trichloroethane	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Carbon Tetrachloride	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Vinyl Acetate	ug/Kg	15000 U	120 U	12000 U	4200 U	28 U	50 U	52 U
Bromodichloromethane	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
1,2-Dichloropropane	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
cis-1,3-Dichloropropene	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Trichloroethene	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Dibromochloromethane	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
1,1,2-Trichloroethane	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Benzene	ug/Kg	7700 U	91	6100 U	2100 U	14 U	25 U	26 U
Trans-1,3-Dichloropropene	ug/Kg	7700 U	[.] 61 U	6100 U	2100 U	14 U	25 U	26 U
Bromoform	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
4-Methyl-2-pentanone	ug/Kg	15000 U	120 U	12000 U	4200 U	28 U	50 U	52 U
2-Hexanone	ug/Kg	15000 U	120 U	12000 U	4200 U	28 U	50 U	52 U
Tetrachloroethene	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
1,1,2,2-Tetrachloroethane	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Toluene	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Chlorobenzene	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Ethylbenzene	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Styrene	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 U
Xylene (total)	ug/Kg	7700 U	61 U	6100 U	2100 U	14 U	25 U	26 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.

Table 3-4Summary of Lagoon Sediment Analytical Results -February 1997Black & Decker

Hampstead, Maryland

		EAST LAGOON			WEST LAGOON			
PARAMETER	Units	EL01-02-SED	EL02-02-SED	EL03-02-SED	WL01-02-SED	WL01-02-SED	WL02-02-SED	WL03-02-SED
						(DUPLICATE)		l
Chloromethane	ug/Kg	12000 U	99 U	520 U	31 U	130 U	160 U	52 U
Bromomethane	ug/Kg	12000 U	99 U	520 U	31 U	130 U	160 U	52 U
Vinyl Chloride	ug/Kg	12000 U	99 U	520 U	31 U	130 U	160 U	52 U
Chloroethanane	ug/Kg	12000 U	99 U	520 U	31 U	130 U	160 U	52 U
Methylene Chloride	ug/Kg	11000 B	85 B	520 B	17 B	110 B	150 B	58 B
Acetone	ug/Kg	12000 U	130 B	1500 B	270 B	960 B	320 B	350 B
Carbon Disulfide	ug/Kg	6200 U	50 U	74 J	4 J	28 J	78 U	8 J
1,1-Dichloroethene	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
1,1-Dichloroethane	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
1,2-Dichloroethene (total)	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Chloroform	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
1,2-Dichloroethane	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
2-Butanone	ug/Kg	12000 U	99 U	390 J	74	320	160 U	76
1,1,1-Trichloroethane	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Carbon Tetrachloride	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Vinyl Acetate	ug/Kg	12000 U	99 U	520 U	31 U	130 U	160 U	52 U
Bromodichloromethane	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
1,2-Dichloropropane	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
cis-1,3-Dichloropropene	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Trichloroethene	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Dibromochloromethane	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
1,1,2-Trichloroethane	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Benzene	ug/Kg	6200 U	22 J	72 J	16 U	67 U	78 U	26 U
Trans-1,3-Dichloropropene	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Bromoform	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
4-Methyl-2-pentanone	ug/Kg	12000 U	99 U	520 U	31 U	130 U	160 U	52 U
2-Hexanone	ug/Kg	12000 U	99 U	520 U	31 U	130 U	160 U	52 U
Tetrachloroethene	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
1,1,2,2-Tetrachloroethane	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Toluene	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Chlorobenzene	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Ethylbenzene	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Styrene	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U
Xylene (total)	ug/Kg	6200 U	50 U	260 U	16 U	67 U	78 U	26 U

J = Indicates an estimated value.

B = Indicates that the analyte was found in the associated blank as well as in the sample.

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3.3 BRUSH PILE INVESTIGATION

3.3.1 Geophysical Survey

3.3.1.1 EM Results

The EM data revealed anomalous quadrature and in-phase readings throughout the site as shown on Figures 3-4 and 3-5, respectively. The strongest anomalies occurred within grid coordinates 80N to 100N/45W to 80W. These anomalies can be attributed to buried metallic objects. An area of relatively high conductivity (approximately 10 to 14 mS/m, depicted by the violet color contours on Figure 3-4) was observed in the center portion of the survey area. This is probably due to an increase in moisture content of the surface soils that were disturbed during clearing operations and the presence of buried metal. The in-phase component reveals a high and low anomaly pair within the above mentioned grid coordinates which is indicative of buried metallic objects (represented by the violet and blue color contours on Figure 3-5). Other EM anomalies found over the site appear minor in magnitude compared to the anomaly at 80N to 100N/45W to 80W and probably represent isolated metallic debris.

3.3.1.2 MAG Results

The MAG data corroborates the EM data by revealing an anomaly within the same approximate boundary as the main EM anomaly. The two components of the MAG signal, total magnetic field and magnetic gradient, delineate the anomaly boundary at grid coordinates 70N to 110N/50W to 65W as shown on Figures 3-6 and 3-7, respectively. This anomalous area is represented by the high and low, violet and blue color contour intervals and is interpreted to be buried ferrous material. Another MAG anomaly exists at relative grid coordinates 170N/130W which may be attributed to ferrous surface debris.







3-11





FIGURE 3-5 ELECTROMAGNETIC SURVEY – INPHASE COMPONENT Supplemental Investigation Report Black & Decker Hampstead, Maryland







FIGURE 3-6 MAGNETOMETER SURVEY – TOTAL FIELD COMPONENT Supplemental Investigation Report Black & Decker Hampstead, Maryland





MAGNETOMETER SURVEY – GRADIENT COMPONENT Supplemental Investigation Report Black & Decker Hampstead, Maryland FIGURE 3-7 3-14



3.3.2 <u>Test Excavations</u>

No disturbance or evidence of debris was observed in TP-1 through TP-5, and these test pits were backfilled following excavation. However, fill material, consisting of aluminum oxide saw blades and scrap metal, was found in test pits TP-6, TP-7, and TP-8. Significant readings were not observed with an organic vapor monitor (OVM) in the soils or debris encountered in any of the test pits.

Soil samples were collected from test pits TP-2 through TP-7 and a summary of the analytical results is presented in Table 3-5. In addition, a sample of the groundwater encountered in TP-6 was collected and a summary of the analytical results is presented in Table 3-6. The complete analytical data packages are included in Appendix C.

The analytical results indicate that no concentrations of VOCs above quantification limits were detected in the test pit soil samples or the groundwater sample, except for low levels of constituents, which were also found in the laboratory blanks.

On 28 August 1996, the remainder of the debris was removed from test pits TP-6, TP-7, and TP-8, and, on 29 August 1996, these test pits were backfilled with clean soil.

Table 3-5 Summary of Test Pit Soil Sample Analytical Results Black & Decker Hampstead, Maryland

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		Soil Sample ID							
PARAMETER	Units	TP-96-2	TP-96-3	TP-96-4	TP-96-5	TP-96-6	TP-96-7		
Chloromethane	ug/Kg	12 U	12 U	12 U	13 U	12 U	12 U		
Bromomethane	ug/Kg	12 U	12 U	12 U	13 U	12 U	12 U		
Vinvl Chloride	ug/Kg	12 U	12 U	12 U	13 U	12 U	12 U		
Chloroethanane	ug/Kg	12 U	12 U	12 U	13 U	12 U	12 U		
Methylene Chloride	ug/Kg	13 B	14 B	12 B	13 B	11 B	11 B		
Acetone	ug/Kg	12 U	12 U	12 U	13 U	9 JB	12 U		
Carbon Disulfide	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
1.1-Dichloroethene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
1.1-Dichloroethane	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
1.2-Dichloroethene (total)	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Chloroform	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
1.2-Dichloroethane	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
2-Butanone	ug/Kg	12 U	12 U	12 U	13 U	12 U	12 U		
1,1,1-Trichloroethane	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Carbon Tetrachloride	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Vinyl Acetate	ug/Kg	12 U	12 U	12 U	13 U	12 U	12 U		
Bromodichloromethane	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
1,2-Dichloropropane	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
cis-1,3-Dichloropropene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Trichloroethene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Dibromochloromethane	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
1,1,2-Trichloroethane	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Benzene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Trans-1,3-Dichloropropene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Bromoform	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
4-Methyl-2-pentanone	ug/Kg	12 U	12 U	12 U	13 U	12 U	12 U		
2-Hexanone	ug/Kg	12 U	12 U	12 U	13 U	12 U	12 U		
Tetrachloroethene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
1,1,2,2-Tetrachloroethane	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Toluene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Chlorobenzene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Ethylbenzene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Styrene	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 U		
Xylene (total)	ug/Kg	6 U	6 U	6 U	6 U	6 U	6 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.

Table 3-6 Summary of Test Pit Groundwater Sample Analytical Results Black & Decker Hampstead, Maryland

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		Groundwater Sample ID				
PARAMETER	Units	TP-96-6	TRIP BLANK			
Chloromethane	ug/L	10 U	10 U			
Bromomethane	ug/L	10 U	10 U			
Vinyl Chloride	ug/L	10 U	10 U			
Chloroethanane	ug/L	10 U	10 U			
Methylene Chloride	ug/L	7 B	7 B			
Acetone	ug/L	10 U	10 U			
Carbon Disulfide	ug/L	5 U	5 U			
1,1-Dichloroethene	ug/L	5 U	5 U			
1,1-Dichloroethane	ug/L	5 U	5 U			
1,2-Dichloroethene (total)	ug/L	5 U	5 U			
Chloroform	ug/L	5 U	5 U			
1,2-Dichloroethane	ug/L	5 U	5 U			
2-Butanone	ug/L	10 U	10 U			
1,1,1-Trichloroethane	ug/L	5 U	5 U			
Carbon Tetrachloride	ug/L	5 U	5 U			
Vinyl Acetate	ug/L	10 U	10 U			
Bromodichloromethane	ug/L	5 U	5 U			
1,2-Dichloropropane	ug/L	5 U	5 U			
cis-1,3-Dichloropropene	ug/L	5 U	5 U			
Trichloroethene	ug/L	5 U	5 U			
Dibromochloromethane	ug/L	5 U	5 U			
1,1,2-Trichloroethane	ug/L	5 U	5 U			
Benzene	ug/L	5 U	5 U			
Trans-1,3-Dichloropropene	ug/L	5 U	5 U			
Bromoform	ug/L	5 U	5 U			
4-Methyl-2-pentanone	ug/L	10 U	10 U			
2-Hexanone	ug/L	10 U	10 U			
Tetrachloroethene	ug/L	5 U	5 U			
1,1,2,2-Tetrachloroethane	ug/L	- 5 U	5 U			
Toluene	ug/L	5 U	5 U			
Chlorobenzene	ug/L	5 U	5 U			
Ethylbenzene	ug/L	5 U	5 U			
Styrene	ug/L	5 U	5 U			
Xylene (total)	ug/L	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.



4.1 FRACTURE TRACE ANALYSIS

As requested by the MDE, a fracture trace analysis of the site was completed in order to identify potential preferred zones of groundwater movement. Identified traces are shown on Figure 3-3. As can be seen on this figure, monitor wells and remediation wells are present along the major fracture traces evident at the site.

As described in the hydrogeologic conceptual site model presented in the Supplemental Remedial Work Plan (WESTON, 1995), groundwater exists at the site primarily in the transition zone between unconsolidated material and competent bedrock. Within the transition zone, any bedrock fracture orientation originally present has been largely subdued by subsequent weathering; hence, fracture orientation and occurrence does not represent a controlling influence on the overall movement of groundwater in the site area. As described in previous reports and briefly reiterated below, hydrogeologic parameters and hydraulic performance of pumping wells observed at the site support this interpretation.

The results of the remediation system design pumping tests previously performed at the site were evaluated for anisotropy to determine the potential importance of fracture flow. The results showed that there is relatively minor anisotropy at the site and confirm that there are no strong preferential flow directions present. Further, storativities were calculated and shown to be consistent with porous media dominated flow; yields of wells at the site are uniformly highest in the transitional zone which is essentially a porous media. Based on this analysis, the bedrock fracture fabric does not control actual groundwater flow directions and the transition zone behaves as a porous medium at the scale of the site groundwater flow regime.

4-1



In addition, the performance of the groundwater remediation system has demonstrated the ability to maintain pumping influence laterally throughout the site with a relatively smooth distribution of drawdowns amongst all pumping and monitor wells on a site-wide basis. Anomalous drawdowns that are typically associated with fracture influenced flow have not been commonly observed at the site.

Based on these observations, the current groundwater remediation system is effectively capturing the groundwater providing a hydraulic barrier as intended at the site. No additional action is necessary relative to the design/operation and monitoring of the groundwater system at the site at this time.

4.2 LAGOON SAMPLING

The low concentrations of VOCs detected in the surface water and sediment samples collected from the East and West Lagoons do not suggest that they are a source of groundwater contamination. No additional sampling of the Lagoons is warranted.

4.3 BRUSH PILE INVESTIGATION

Based on the geophysical survey and test pit excavations, a fill area consisting of aluminum oxide saw blades and scrap metal was delineated and removed from the subsurface at the Brush Pile area. The analytical results of the soil and groundwater samples collected from the test pit excavations indicate that the Brush Pile area is not a source of soil or groundwater contamination. No additional investigation activities at the Brush Pile area are warranted.


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McNeill, J.D., 1980. 'Electromagnetic Terrain Conductivity Measurements at Low Induction Number." Technical Note TN-6, Geonics, Ltd., Mississauqa, Ontario.

Meyer, G. and Beal, R.M. 1958. *The Water Resources of Carroll and Frederick Counties*, Maryland Board of Natural Resources, Department of Geology, Mines and Water Resources, Bulletin 22.

Parizek, R.R., 'Lineaments and Ground Water." Reprint from ORSER-SSEL Technical Report 2-76, Pennsylvania State University, 1976.

WESTON (Roy F. Weston, Inc.). 1995. Supplemental Remedial Work Plan, Black & Decker (U.S.) Inc., Hampstead, Maryland.

WESTON (Roy F. Weston, Inc.). 1995. Sampling and Analysis Plan, Black & Decker (U.S.) Inc., Hampstead, Maryland.

AERIAL PHOTOGRAPHS:

Date	Project #	Frame #
10/9/59	ABB59035	396 and 397
4/17/74	GS-VDLJ	1-14 and 1-15
4/2/81	NHAP80	328-100 and 328-101
9/26/87	NAPPBO	105-061 and 105-062

APPENDIX A TEST PIT LITHOLOGIC LOGS



PROJECT LOCATION LOGGER OPERATOR	Black & Dec Hampstead Greg Flasin Joe Schell	sker MD ski	TEST PIT IDTP-1DATE STARTED14 August 1997DATE COMPLETED14 August 1997TOTAL DEPTH7.0 ft bgs
INTERVAL	FIELD SC RESI	REENING ULTS	LITHOLOGIC DESCRIPTION
(ft bgs)	OVM	CGI	
0-0.3	BKG	BKG	grass; topsoil
0.3-1.0	BKG	BKG	brown to orange-brown, clayey silt; dry; tree stump encountered at approx. 0.5 ft bgs; some black organic material
1.0-6.0	ВКС	BKG	orange-brown silt; some roots
6.0-7.0	BKG	BKG	saprolite; quartzite;no evidence of disturbed soil; total depth at 7.0 ft bgs

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PROJECT LOCATION LOGGER	Black & Dec Hampstead, Greg Flasin	cker MD ski	TEST PIT ID TP-2 DATE STARTED 14 August 1997 DATE COMPLETED 14 August 1997					
OPERATOR	Joe Schell		TOTAL DEPTH 7.0 ft bgs					
INTERVAL	FIELD SC RESI	REENING JLTS	LITHOLOGIC DESCRIPTION					
(ft bgs)	OVM CGI							
0-0.3	BKG	BKG	grass; topsoil					
0.3-1.5	BKG	BKG	brown to orange, clayey silt; dry					
1.5-6.0	BKĢ	BKG	orange-brown silt					
6.0-7.0	BKG	BKG	orange-brown silt; some saprolite, quartzite; collect soil sample "TP-96-2" for VOCs at 7 ft bgs					



PROJECT LOCATION LOGGER OPERATOR	Black & Dec Hampstead, Greg Flasin Joe Schell	:ker MD ski	TEST PIT ID TP-3 DATE STARTED 14 August 1997 DATE COMPLETED 14 August 1997 TOTAL DEPTH 8.0 ft bgs
INTERVAL	FIELD SC RESI	REENING JLTS	LITHOLOGIC DESCRIPTION
(ft bgs)	OVM CGI		
0-1.0	ВКС	BKG	grass; brown clay with little silt; moist; organics; odor
1.0-3.5	BKG	BKG	orange-brown, silty clay with little fine sand; dry
3.5-7.0	BKG	BKG	orange-brown; grey modeling; dry
7.0-8.0	BKG	BKG	saprolite; silty; organic odor; no evidence of disturbed soils; collect soil sample "TP-96-3" for VOCs at 8 ft bgs



PROJECTBlack & DeckerLOCATIONHampstead, MDLOGGERGreg FlasinskiOPERATORJoe Schell			TEST PIT ID TP-4 DATE STARTED 14 August 1997 DATE COMPLETED 14 August 1997 TOTAL DEPTH 9.0 ft bgs							
INTERVAL (ft bgs)	FIELD SC RESI OVM	REENING JLTS CGI	LITHOLOGIC DESCRIPTION							
0-1.0	BKG	BKG	brown clay with some silt; moist							
1.0-5.0	BKG	BKG	orange-brown,silty sand; grey modleing; pieces of quartzite							
5.0-9.0	BKG	BKG	sand and silt; saprolite; collect soil sample "TP-96-4" for VOCs at 9 ft bgs [MDE split sample]							

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PROJECT LOCATION LOGGER OPERATOR	Black & Dec Hampstead, Greg Flasin Joe Schell	ker MD ski	TEST PIT ID TP-5 DATE STARTED 14 August 1997 DATE COMPLETED 14 August 1997 TOTAL DEPTH 9.0 ft bgs						
INTERVAL FIELD SCREENING (ft bgs) OVM CGI		REENING JLTS CGI	LITHOLOGIC DESCRIPTION						
0-1.0	ВКС	BKG	grass; brown silt with root material						
1.0-2.0	BKG	BKG	silt with clay and some sand						
3.0-4.0	BKG	BKG	layers of saprolitic soils						
4.0-9.0	BKG	BKG	silt; saprolite; collect soil sample "TP-96-5" for VOCs at 9 ft bgs [MDE split sample]						

6



PROJECT LOCATION LOGGER OPERATOR	Black & Dec Hampstead Greg Flasin Joe Schell	cker MD ski	TEST PIT ID TP-6 DATE STARTED 14 August 1997 DATE COMPLETED 28 August 1997 TOTAL DEPTH 7.5 ft bgs						
INTERVAL	FIELD SC RESI		LITHOLOGIC DESCRIPTION						
(ft bgs)	OVM	CGI							
0-1.0	BKG	BKG	brown clay; some organics; piece of rope						
1.0-3.0	BKG	BKG	brown clay and silt						
3.0-7.5	ВКС	BKG	aluminium oxide circular saw blades						
7.5	ВКС	BKG	wet; collect soil sample "TP-96-6" for VOCs from the side wall of the pit, adjacent to the saw blades [MDE split sample]; collect groundwater sample "TP-96-6" for VOCs from water in bottom of test pit						

6



PROJECT LOCATION LOGGER OPERATOR	Black & Dec Hampstead, Greg Flasin Joe Schell	≿ker , MD ski	TEST PIT ID TP-7 DATE STARTED 14 August 1997 DATE COMPLETED 28 August 1997 TOTAL DEPTH 8.0 ft bgs						
INTERVAL (ft bgs)	FIELD SC RESI OVM	REENING							
0-1.0	ВКС	ВКС	brown clay; moist						
1.0-3.0	5.4	BKG	saw blades and scrap metal (display cases)						
3.0-6.5	ВКС	BKG	saw blades; groundwater entering test pit at approx. 5 ft bgs						
6.5-8.0	BKG	BKG	saw blades end at 7 ft bgs; collect soil sample "TP-96-7" for VOCs at 8 ft bgs [MDE split sample]						

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PROJECT LOCATION LOGGER OPERATOR	Black & Dec Hampstead, Greg Flasin Joe Schell	:ker MD ski	TEST PIT ID TP-8 DATE STARTED 14 August 1997 DATE COMPLETED 28 August 1997 TOTAL DEPTH 8.0 ft bgs							
INTERVAL (ft bgs)	FIELD SC RESI OVM	REENING ULTS CGI	LITHOLOGIC DESCRIPTION							
0-1.0	BKG	BKG	brown clay; moist							
1.0-3.0	вкд	BKG	brown clayey silt; moist							
3.0-5.0	BKG	BKG	orange-brown silt with little sand; little modeling to grey; no debris							
5.0-8.0	BKG	BKG	orange-brown silt; encounter a few saw blades in the corner of pit adjacent to TP-96-6 and TP-96-7							

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ft bgs - feet below ground surface OVM - Organic Vapor Monitor CGI - Combustible Gas Indicator BKG - background

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APPENDIX B TEST PIT PHOTOGRAPHS



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Test Pit TP-96-1



Test Pit TP-96-1



Test Pit TP-96-2



Test Pit TP-96-3







Test Pit TP-96-4



Test Pit TP-96-4



Test Pit TP-96-5



Test Pit TP-96-5



Test Pit TP-96-6



Test Pit TP-96-6



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Test Pit TP-96-6



Test Pit TP-96-6



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Test Pit TP-96-6



Test Pit TP-96-6



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Test Pit TP-96-7



Test Pits TP-96-6 and TP-96-7



Backfilling Test Pits TP-96-1 and TP-96-2



Brush Pile Area After Test Pit Excavations



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Removal of the remainder of debris



Removal of the remainder of debris



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Excavation after removal of debris



Excavation after removal of debris



Excavation after removal of debris



Debris pile



Brush Pile Area After Backfilling



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Brush Pile Area After Backfilling

APPENDIX C ANALYTICAL DATA PACKAGES

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LAGOON SURFACE WATER AND SEDIMENT ANALYTICAL DATA PACKAGES

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AUGUST 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# : 9608L555

W.O. #: 02501-004-001-0000-00 Date Received: 08-08-96

GC/MS VOLATILE

The set of samples consisted of eight (8) water samples and seven (7) soil samples collected on 08-07-96.

The samples and their associated QC samples were analyzed according to criteria set forth in SW 846 Method 8240 for TCL Volatile target compounds on 08-16,17,18,19,20-96.

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 required holding time for analysis was met.

Sample ID

- 2. Non-target compounds were detected in these samples.
- 3. The following samples required medium level analysis because they contained high levels of non-target compounds:

EL01-01-SED EL02-01-SED, RE EL02-01-SED (DUP) EL03-01-SED, MS, MSD WL02-01-SED RE **Dilution Factor**

Medium Medium Medium 4.55

4. Twleve (12) of one-hundrd-eight (108) surrogate recoveries were outside EPA QC limits. The associated matrix spike analyses of sample EL03-01-SED fulfilled its reanalysis requirement. Samples EL02-01-SED (DUP) and EL01-01-SED were reanalyzed on 08-20-96 and reported. Samples WL02-01-SED and EL02-02-SED were diluted, reanalyzed on 08-19,20-96, and reported.

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 41 pages.



- 5. Two (2) of twenty (20) matrix spike recoveries were outside EPA QC limits.
- 6. All blank spike recoveries were within EPA QC limits.
- 7. The method blanks contained the common contaminants Methylene Chloride and Acetone at levels less than 3x the CRQL.

Uw unit leader 10

col J. Michael Taylof Vice President and Laboratory Manager Lionville Analytical Laboratory

mmz/voa/08-555v.cn

<u>9-24-96</u> Date



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.
- NO = 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.

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GLOSSARY OF VOA DATA

ABBREVIATIONS

BS	8	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.

mmz\10-94\gloss.voa

RFW Batch Numbe	r: 96081555	Client:	Vc BLAC	olatiles by <u>CK AND DECK</u>	GC ER	MS, HSL Lis Wo:	st rk (<u> Order: 0250</u>	100	Report Date	: 1	09/23/96 12: <u>a</u>	14
	Cust ID:	BL01-01-SW		BL01-01-SE	D	EL01-01-SE	D	BL02-01-SW		EL02-01-SED)	EL02-01-SEC	,
Sample	RFW#:	001		002		002		003		004		004	C C
Information	Matrix:	WATER		SEDIMEN	т	SEDIMEN	т	WATER		SEDIMENT	•	SEDIMENT	<u>;</u>
	D.F.:	1.0	0	1.0	0	1.0	0	1.0	0	0.962		1.00)
	Units:	UG/L		UG/K	G	UG/K	G	UG/L		UG/KG	;	UG/KG	;
	Level:	LOW		MED		MED		LOW		LOW		MED	
						REPR	EP					REPRE	P
	Toluene-d8	106	ક્ષ	72 *	*	74 *	¥	104	ક્ષ	111	¥	81	8
Surrogate	Bromofluorobenzene	105	*	77	8	79	ક	101	8	71 *	ક	82	¥
Recovery 1,2	-Dichloroethane-d4	97	¥	68 *	*	72	¥	97	ક્ષ	110	£	71	¥
			=f1		=f1		=f1	=========	=f]		=f1		±f1
Chloromethane		10	U	15000	U	15000	U	10	U	120	U	16000	U
Bromomethane		10	U	15000	U	. 15000	U	10	U	120	U	16000 ·	U
Vinyl Chloride_		10	U	15000	U	15000	U	10	U	120	U	16000	U
Chloroethane		10	U	15000	U	15000	U	10	U	120	U	16000	U
Methylene Chlor	ide	_ 5	JB	9700	в	25000	в	11	в	170	в	8400	В
Acetone		19	в	15000	U	9900	BJ	22	в	950	в	6500	BJ
Carbon Disulfic	le	_ 5	U	7700	U	7700	U	5	U	29	J	7900	U
1,1-Dichloroeth	nene	5	U	7700	U	7700	U	5	Ū	61	U	7900	U
1,1-Dichloroeth	nane	_ 5	U	7700	U	7700	U	5	U	61	U	7900	U
1,2-Dichloroeth	nene (total)	5	U	7700	U	7700	U	5	U	61	U	7900	U
Chloroform		_ 4	J	7700	U	7700	U	4	J	61	U	7900	U
1,2-Dichloroeth	nane	_ 5	U	7700	U	7700	U	5	U	61	U	7900	U
2-Butanone		10	U	15000	U	15000	U	10	Ŭ	250		16000	U
1,1,1-Trichloro	oethane	_ 5	U	7700	U	7700	U	5	U	61	U	7900	U 77
Carbon Tetrach	loride	5	U	7700	U	7700	U	5	U	61	U 	7900	U
Vinyl Acetate_		10	U	15000	U	15000	U	10	Ŭ	120	U 	16000	0
Bromodichlorome	ethane	_ 5	U	7700	U	7700	Ŭ	5	U	61	U	7900	U 17
1,2-Dichloropro	opane	_ 5	Ŭ	7700	U	7700	U 	5	U 	61	U 77	7900	U 11
cis-1,3-Dichlor	ropropene	_ 5	Ŭ	7700	Ŭ	7700	0	5	U 	61	U 17	7900	U 11
Trichloroethene	e	5	0	7700	U 	7700	U 17	5	U 11	61 61	U	7900	тт
Dibromochlorom	ethane	_ 5	0	7700	U 	7700	U 77	5	U 		U 11	7900	т Т
1,1,2-Trichlor	oethane	- 5	0	7700	U ••	7700	U 11	5	U 11	10	0	7900	11
Benzene		- 5	U	7700	U 	7700	U 11	5	U 11	16	ŢŢ	7900	11
Trans-1,3-Dich	loropropene	- 5	U 	7700	U 	//00	U 77	5	U 17	10 21	יי	7900	11
Bromotorm	•	5	U ++	1,700	U 77	1,000	11	5	U 11	120	т т	16000	т ТТ
4-Methyl-2-pen	canone	- 10	U ++	15000	U 77	15000	U 11	10	11	120	11	16000	π
2-Hexanone			U ••	15000	U 17	15000	11	E 10	ט דד	120 E1	11	7900	л П
Tetrachloroeth	ene	- 5	U 	//00	U 	7700		5	11	01 C1	11	7900	11
1,1,2,2-Tetrac	nioroetnane	5	U	//00	U	//00	U	5	0	01	0	, , , 00	5

RFW Batch Number:	9608L555 Cl	ient: BLAC	<u>k a</u>	AND DECKER		Work C)rde	r: 02501004	001	Page: 1b		
	Cust ID:	EL01-01-SW		EL01-01-SE	D	EL01-01-SE	D	BL02-01-SW	1	EL02-01-SED	l.	EL02-01-SED
	RFW#: Level:	001 Low		002 Med		002 Med	:	003 Low		004 Low		004 Med
		·····				REPR	EP					REPREP (O
Toluene		1	J	7700	U	7700	U	5	U	61	U	7900 U O
Chlorobenzene		5	U	7700	U	7700	U	5	U	61	U	7900 U 🔿
Ethylbenzene		5	U	7700	U	7700	U	5	U	61	U	7900 U
Styrene		5	U	7700	U	7700	U	5	U	61	U	7900 U
Xylene (total)		5	U	7700	U	7700	U	5	U	61	U	7900 U
*= Outside of EPA	CLP QC limits.	-									-	

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		Roy F.	Wea	ston, Inc.		onville La	bora	tory					
REW Batch N	umber: 96081.555	Client	VC BT.BC	TATILES DY	GC/	MS, HSL L1	st rk o	rdor. 0250	100/	Report Date	: 09	/23/96 12:	:14
<u>Ren Bucch</u> M			<u>D LA</u>	IN AND DECK	BR	NO.		ider: 0250.	1004	Fage:	<u> 2a</u>		
	Cust ID:	EL02-01-SE DUP)	D(EL02-01-SE DUP)	:D (EL03-01-SW		EL03-01-SE	D	EL03-01-SED	B	L03-01-SEI	~r
Sample	RFW#:	005		005	;	006		007		007 MS		007 MSD	0
Information	Matrix:	SEDIMEN	т	SEDIMEN	т	WATER		SEDIMENT		SEDIMENT		SEDIMENT	
	D.F.:	1.00		1.00		1.00		1.0	0	1.00		1.00	
	Units:	UG/KG		UG/KG		UG/L		UG/K	3	UG/KG		UG/KG	
	Level:	MED		MED		LOW		MED		MED		MED	
				REPR	EP								
	Toluene-d8	79 *	¥	74 *	8	102	f	75 *	ક	74 *	ક	73 *	*
Surrogate	Bromofluorobenzene	82	8	75	*	97	¥	80	ક્ર	80	*	77	*
Recovery	1,2-Dichloroethane-d4	74	ક	73	¥	108	*	72	ક	71	¥	69 *	8
			=fl:		=fl:		=fl=		=fl:		fl==		= f l
Chlorometha	ne	12000	U	12000	U	10	U	4200	U	4200	U	4200	U
Bromomethan	e	12000	U	12000	U	10	U	4200	U	4200	U	4200	U
Vinyl Chlor	ide	_ 12000	U	12000	U	10	U	4200	U	4200	U	4200	U
Chloroethan	e	12000	U	12000	U	10	U	4200	U	4200	U	4200	U
Methylene C	hloride	_ 8700	В	14000	В	3	JB	1400	JB	3400	В	4100	В
Acetone	7300	JB	4400	BJ	25	в	1900	JB	4200	В	1500	JB	
Carbon Disu	lfide	6100	U	6100	U	5	U	2100	U	2100	U	2100	U
1,1-Dichlor	oethene	_ 6100	U	6100	U	5	U	2100	U	58 *	*	54 *	8
1,1-Dichlor	oethane	_ 6100	U	6100	U	5	U	2100	U	2100	U	2100	U
1,2-Dichlor	oethene (total)	_ 6100	U	6100	U	5	U	2100	U	2100	U	2100	U
Chloroform_		_ 6100	0	6100	U	2	J 	2100	0	2100	U 	2100	U
1,2-Dichior	oetnane	_ 6100	0	6100	0	5	U 	2100	0	2100	U 	2100	0
2-Butanone	1	_ 12000	0	12000	U 	10	U 	4200	0	4200	0	4200	0
I,I,I-IIICh	iloroethane	_ 6100	0	6100		5	U 	2100	0	2100	U 	2100	0
Vinul Nacto	achioride	_ 12000	U 11	12000	U 11	5	U 11	2100		2100		2100	U 11
Promodiable	remethane	_ 12000	U 11	£100	U	10	11	4200	0	4200	U 11	4200	U 17
1 2 Dichlor		_ 6100	11	6100	11	5	U 11	2100	11	2100	U 17	2100	U 77
cig-1 3-Dic	bloropropene	_ 6100	11	6100	0 11	5	11	2100	11	2100	0	2100	11
Trichloroet	_ 6100	11	6100	11	5	11	2100		2100	9 9	2100	0 8	
Dibromochlo	- 6100	11	6100	11	5	17	2100	11	2100	ъ тт	2100	יס דד	
1 1 2-Trich	- 6100	11	6100	11	5	17	2100	11	2100	0 11	2100	11	
Renzene	lioroechane	- 6100	11	6100	11	5	11	2100	11	68	9 8	2100	ں بو
Trans-1.3-Dichloropropene			π	6100	TT	5	17	2100	л П	2100	л П	2100	U.
Bromoform		- 6100	π	6100	τī	5	υ	2100	11	2100	U U	2100	ц П
4-Methvl-2-	pentanone	12000	U U	12000	Ū	10	Ŭ	4200	Ū	4200	U U	4200	U U
2-Hexanone	12000	ŭ	12000	τī	10	Ū	4200	U	4200	U U	4200	Ŭ	
Tetrachloro	6100	Ū	6100	Ū	5	Ŭ	2100	U	2100	U U	2100	Ŭ	
1,1,2,2-Tet	6100	Ū	6100	Ū	5	Ū	2100	Ū	2100	U	2100	Ū	
*= Outside	of EPA CLP OC limits		-		-	-							-

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RFW Batch Number	<u>96081555</u>	Client	: BLAC	<u>k a</u>	AND DECKER		Work C	rde	r: 02501004	001	Page: 2b)			
	Cust	ID: BL02	EL02-01-SED(DUP) 005 MED		EL02-01-SE DUP)	D (EL03-01-SW		BL03-01-SE	D	BL03-01-SE	D	EL03-01-SE	D	
	RF Lev	W#: rel:			005 MED REPREP		006 Low		007 MED		007 MS Med		007 MSD MED CO		0
Toluene			6100	U	6100	U	5	U	2100	U	71	ę	68	* C	5
Chlorobenzene			6100	U	6100	U	5	U	2100	U	71	ક	70	*	-
Ethylbenzene			6100	U	6100	U	5	U	2100	U	2100	U	2100	U	
Styrene			6100	U	6100	U	5	U	2100	U	2100	U	2100	U	
Xylene (total)			6100	U	6100	U	5	U	2100	U	2100	U	2100	U	
*- Outside of FD	A CLB OC limit	a													

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*= Outside of EPA CLP QC limits.

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		Part P												
		коу г.	wei vz	scon, inc.		VUG NGI ISI VUG NGI ISI	oor: et	acory		Report Dat	۵.	09/23/96 12	•14	
DEW Datch N	lumber, 96091555	Client	NC	THE AND DECK	יפכ, פפי	MO: NO.	si rk i	Order: 0250	100	4001 Page:	е: 3	0 <i>9/23/9</i> 0 12 a	. 14	
Krw Balch N		<u>crienc.</u>	DUN	IN AND DECK	<u>BR</u>	<u> </u>		<u>01021. 0250</u>	100	HUDI Fage.		<u>a</u>		
	Cust ID:	WL01-01-SW	T	WL01-01-SW UP)	I (D	WL01-01-SE	D	WL01-01-SE	D	WL01-01-SE	D	WL02-01-SW	' თ	
Sample	RFW#:	008	3	009)	010		010 MS		010 MSD		011		
Information	Matrix:	WATER		WATER		SEDIMENT		SEDIMENT		SEDIMENT		WATER	\circ	
· · ·	D.F.:	1.0	0	1.0	0	1.02		1.0	2	1.0	0	1.0	0	
	Units:	UG/L		UG/L		UG/K	G	UG/K	G	UG/K	G	UG/L		
	Level:	LOW		LOW		LOW		LOW		LOW		LOW		
<u> </u>	Toluene-d8	102	8	104	*	104	ş	108	8	114	¥	97	*	
Surrogate	Bromofluorobenzene	99	¥	105	ક્ર	81	Ł	78	ક્ર	74	ક્ર	96	¥	
Recovery	1,2-Dichloroethane-d4	108	ક્ર	105	₽	102	¥	106	ક્ર	110	¥	104	¥	
			=fl		==f1		=fl		=f1	.==============	=f1		=fl	
Chlorometha	ane	10	U	10	U	28	U	28	U	28	U	10	U	
Bromomethan	ne	10	U	10	U	28	U	28	U	28	U	10	U	
Vinyl Chlor	ride	10	U	10	U	28	U	28	U	28	U	10	U	
Chloroethan	ne	10	U	10	U	28	U	28	U	28	U	10	U	
Methylene Chloride		_ 2	BJ	1	JB	35	В	26	в	18	в	2	JB	
Acetone		10	U	10	U	160	в	300	в	600	ΕĒ	10	U	
Carbon Disu	ulfide	_ 5	U	5	U	14	U	14	U	14	U	5	U	
1,1-Dichlor	roethene	5	U	5	U	14	U	90	ક્ષ	93	¥	5	U	
1,1-Dichlor	roethane	_ 5	U	5	U	14	U	14	U	14	U	5	U	
1,2-Dichlor	roethene (total)	5	U	5	U	14	U	14	U	14	U	5	U	
Chloroform_		0.9	J	1	J	14	U	14	U	14	U	1	J	
1,2-Dichlo	roethane	5	U	5	U	14	U	14	U	14	U	. 5	U	
2-Butanone		10	U	10	U	34		63		130		10	U	
1,1,1-Tricł	hloroethane	_ 5	U	5	U	14	U	14	U	14	U	5	U	
Carbon Teti	rachloride	5	U	5	U .	14	U	14	U	14	U	5	U	
Vinyl Aceta	ate	_ 10	U	10	U	28	U	28	U	28	U	10	U	
Bromodichlo	oromethane	_ 5	U	5	U	14	U	14	U	14	U	5	0	
1,2-Dichlor	ropropane	_ 5	U	5	U	14	U	14	U	14	U	5	0	
cis-1,3-Dichloropropene		- 5	U	5	U	14	U	14	U	14	U	5	U 	
Trichloroethene		_ 5	U	5	U 	14	0	84	*	84	*	5	U	
Dibromochloromethane		_ 5	0	5	U	14	0	14	0	_ 14	0	5	U TT	
1,1,2-Trichloroethane		_ 5	U	5	U 	14	0	14	U	14	Ů	5	0	
Benzene		_ 5	U	5	0	14	0	100	*	100	* 	5	0	
Trans-1,3-Dichloropropene		5	U	5	0	14	0	14	0	14	0	5	0	
Bromoform		_ 5	U 	5	U 	14	U	14	U ••	14		5	U 17	
4-Methyl-2-pentanone		_ 10	U 	10	U 	28	0	28	U ••	28	U 11	10	U	
2-Hexanone	10	U 	10	U	28	0	28	U 17	28	U 17	10	U 11		
Tetrachlor		U 	5	U 	14	U 77	14	U 17	14	U 11	5	U 11		
1,1,2,2-Te	trachioroethane	_ 5	U	5	U	14	U	14	U	14	U	5	U	
*= Outside	OI EPA CLP QC limits.												•	
RFW Batch Number:	9608L555 C	lient: BLAC	K AN	D DECKER		Work O	rde	<u>r: 025010040</u>	01	Page: 3b	2			
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•	Cust ID:	WL01-01-SW		WL01-01-SW ((D	WL01-01-SE	D	WL01-01-SEI)	WL01-01-SE	D	WL02-01-SW		
				UP)										
	RFW#:	008		009		010)	010 MS		010 MSD)	011		
	Level:	LOW		LOW		LOW		LOW		LOW		LOW	C	2
Toluene	<u>.</u> .	5	U	5	U	14	U	99	ક	104	f	5	U	1
Chlorobenzene		_ 5	U	5	U	14	U	92	¥	93	¥	5	υ	'
Ethylbenzene		_ 5	U	5	U	14	U	14	U	14	U	5	U	
Styrene		_ 5	U	5	U	14	U	14	U	14	U	5	U	
Xylene (total)		_ 5	U	5	U	14	U	14	U	14	U	5	U	
*= Outside of EPA	CLP QC limits.													

REW Batch Number, OGAGIEEE	Clicat	v • • • •	OTACITES DY		/ms, nsi il	3C	o. 1		Report Dat	e:	09/23/96 12	::14
Krm Bacch Number: 30061335	Client:	<u>مىلى ا</u>	CK AND DECK	(BR	Wo	rk	<u>Order: 0250</u>	100	4001 Page:	4	<u>a</u>	
Cust ID:	WL02-01-SH	SD	WL02-01-SE	D	WL03-01-SW	,	WL03-01-SW		WL03-01-SW	r	WL03-01-SE	SD 🐔
Sample RFW#:	012	2	012	2	013		013 MS		013 MSD	•	014	
Information Matrix:	SEDIMEN	T	SEDIMEN	т	WATER		WATER		WATER		SEDIMEN	JT C
D.F.:	0.96	52	4.5	55	1.0	0	1.0	0	1.0	0	1.0)6
Units:	UG/H	KG	UG/K	G	UG/L		UG/L		UG/L	-	UG/K	G
Level:	LOW		LOW		LOW		LOW		LOW		LOW	
			REPR	EP								
Toluene-d8	109	ક	109	¥	102	ક્ર	104	÷	102	¥	113	ş
Surrogate Bromofluorobenzene	69 1	* %	73 *	8	101	¥	102	¥	102	¥	84	ક્ર
Recovery 1,2-Dichloroethane-d4	94	ક	102	¥	102	¥	104	¥	106	¥	107	ક્ર
=======================================	-=========	==f1		==f1		=f1	.==========	=f1		=f1	===========	==fl
Chloromethane	50	U	240	U	10	U	10	U	10	U	52	U
Bromomethane	50	U	240	U	10	U	10	U	10	U	52	U
Vinyl Chloride	_ 50	U	240	U	10	U	10	U	10	U	52	U
Chloroethane	_ 50	U	240	U	10	U	10	U	10	U	52	U
Methylene Chloride	_ 69	в	220	в	6	В	8	в	5	U	56	в
Acetone	740	в	370	в	10	U	10	U	9	J	100	в
Carbon Disulfide	_ 25	U	120	U	5	U	5	U	5	U	26	U
1,1-Dichloroethene	_ 25	U	120	U	5	U	104	ક્ર	101	¥	26	U
1,1-Dichloroethane	_ 25	U	120	U	5	U	5	U	5	U	26	U
1,2-Dichloroethene (total)	25	U	120	U	5	U	5	U	5	U	26	U
Chloroform	_ 25	U	120	U	1	J	1	J	1	J	26	U
1,2-Dichloroethane	_ 25	U	120	U	5	U	5	U	5	U	26	U
2-Butanone	_ 170		96	J	10	U	10	U	10	U	26	J
1,1,1-Trichloroethane	- 25	U	120	U	5	U	5	U	5	U	26	U
Carbon Tetrachloride	_ 25	U	120	U	5	U	5	U	5	U	26	U
Vinyl Acetate	_ 50	U	240	U	10	U	10	U	10	U	52	U
Bromodichloromethane	_ 25	U	120	U	5	U	5	U	5	U	26	U
1,2-Dichloropropane	_ 25	U	120	U	5	U	5	U	5	U	26	U
Cis-1, 3-Dichloropropene	_ 25	U	120	U	5	U	5	U	5	U	26	U
	_ 25	U 	120	U	5	U	95	¥	99	ક	26	U
Dibromochioromethane	_ 25	U	120	U	5	U	5	U	5	U	26	U
1,1,2-Trichloroethane	_ 25	U	120	U	5	U	5	U	5	U	26	U
	_ 25	U	120	U	5	U	96	*	98	¥	26	U
Promoform	_ 25	U 	120	0	5	U	5	Ŭ	5	U	26	U
A Mathul 2 montaria	_ 25	0	120	U	5	U	5	U	5	U	26	U
4-methy1-2-pentanone	_ 50	U 	240	0	10	U	10	Ŭ	10	U	52	U
Z-nexanone	- 50	0	240	0	10	U 	10	U	10	U	52	U
1 1 2 2 Matmachlemetheme	_ 25	U 	120	U 	5	U	5	U	5	U	26	U
1,1,2,2-letrachioroethane	_ 25	υ	120	U	5	U	5	U	5	U	26	U

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RFW Batch Numb	<u>per: 9608L</u>	555 C	lient: BLAC	CK	AND DECKER		Work C	rde	er: 02501004	001	Page: 41	b			
		Cust ID:	WL02-01-SI	BD	WL02-01-SE	D	WL03-01-SW	T	WL03-01-SV	T	WL03-01-ST	W	WL03-01-SP	D	
		RFW#: Level:	01: Low	2	012 Low Repr	EP	013 Low	i	013 MS Low	}	013 MSI Low	D	014 Low	"	3
Toluene			25	U	120	U	5	U	98	¥	96	8	26	U	7
Chlorobenzene			25	U	120	U	5	U	96	¥	92	ક્ર	26	U	\cup
Ethylbenzene			25	U	120	U	5	U	5	U	5	U	26	U	
Styrene			_ 25	U	120	U	5	U	5	U	5	U	26	U	
Xylene (total)			25	U	120	U	5	U	5	U	5	U	26	U	
$\star = Outside of$	FDA CLD O	C limita													

*= Outside of EPA CLP QC limits.

	-	V	olatiles by	GC	/MS, HSL Li	st	-		Report Date	e:	09/23/96 12	:14
RFW Batch Number: 9608L555	Client:	BLA	CK AND DECK	ER	Wo	rk_	Order: 02501	L004	<u>4001 Page:</u>	5	<u>a</u>	
Cust I	D: TRIP BLAN	ĸ	VBLKBV		VBLKHK		VBLKHK BS		VBLKCL		VBLKCK	
Sample RFW	/#: 01	5	96LVX201-M	B1	96LVK219-M	B1	96LVK219-M	31	96LVK220-M	B1	96LVW166-MI	31 5
Information Matri	x: WATER		WATER		SOIL		SOIL		SOIL		SOIL	Ċ
D.F	P.: 1.0	00	1.0	0	1.0	0	1.00	0	1.0	0	1.00	כ
Unit	s: UG/I	L	UG/L	1	UG/K	G	UG/KC	3	UG/K	G	UG/KC	3
Leve	el: LOW		LOW		MED		MED		MED		LOW	
Toluene-	-d8 99	*	102	ક	106	*	105	¥	101	¥	98	¥
Surrogate Bromofluorobenze	ene 96	*	102	*	105	ક્ષ	106	ક	100	¥	88	*
Recovery 1,2-Dichloroethane-	-d4 100	€	98	ક્ર	102	ક્ર	96	8	102	¥	97	ક્ર
*======================================		==fl		=f1		=f1		= f 1:		=f1		=f1
Chloromethane	10	U	10	U	1200	U	1200	U	1200	U	10	U
Bromomethane	10	U	10	U	1200	U	1200	U	1200	U	10	U
Vinyl Chloride	10	U	10	U	1200	U	1200	U	1200	U	10	U
Chloroethane	10	U	10	U	1200	U	1200	U	1200	U	10	U
Methylene Chloride	2	JB	4	J	770		1000	в	1400		5	J
Acetone	10	U	8	J	420	J	390	JB	390	J	6	J
Carbon Disulfide	5	U	5	U	620	U	620	U	620	U	5	U
1,1-Dichloroethene	5	U	5	U	620	U	95	ક્ર	620	U	5	U
1,1-Dichloroethane	5	U	5	U	620	U	620	U	620	U	5	U
1,2-Dichloroethene (total)	5	U	5	U	620	U	620	U	620	U	5	U
Chloroform	5	U	5	U	620	U	620	U	620	U	5	U
1,2-Dichloroethane	5	U	5	U	620	U	620	U	620	U	5	U
2-Butanone	10	U	10	U	1200	U	1200	U	1200	U	10	U
1,1,1-Trichloroethane	5	U	5	U	620	U	620	U	620	U	5	U
Carbon Tetrachloride	5	U	5	U	620	U	620	U	620	U	5	U
Vinyl Acetate	10	U	10	U	1200	U	1200	U	1200	U	10	U
Bromodichloromethane	5	U	5	U	620	U	620	U	620	U	5	U
1,2-Dichloropropane	5	U	5	U	620	U	620	U	620	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	620	U	620	U	620	U	5	U
Trichloroethene	5	U	5	U	620	U	93	8	620	U	5	U
Dibromochloromethane	5	U	5	U	620	U	620	U	620	U	5	U
1,1,2-Trichloroethane	5	U	5	U	620	U	620	U	620	U	5	Ŭ
Benzene	5	U	5	U	620	U	92	*	620	U	5	U
Trans-1, 3-Dichloropropene	5	U	5	U	620	U	620	U	620	U	5	Ŭ
Bromoform	5	U	5	U	620	U	620	U	620	U	5	Ŭ
4-Methyl-2-pentanone	10	U	10	U	1200	U	1200	U	1200	Ű	10	U
2-Hexanone	10	U	10	U	1200	U	1200	U 	1200	0	10	U
Tetrachloroethene	5	U	5	U	620	U	620	U	620	U	5	U

.

RFW Batch Number:	9608L555 Clien	t: BLACE	AND DE	CKER		Work O:	<u>rde</u>	r: 0250100400	<u>1 Paqe</u>	<u>: 5b</u>				
	Cust ID: TRI	P BLANK	VBLK	BV		VBLKHK		VBLKHK BS	VBLKC	Ľ		VBLKCK		
	RFW#: Level:	015 Low	96LV	Х201-МВ LOW	1	96LVK219-M MED	B1	96LVK219-MB1 Med	96LVR	220-M Med	B1	961VW166-M LOW	B1	w-%
Toluene		5	U	5 1	U	620	U	92 %		620	U	5	U	<u> </u>
Chlorobenzene	······································	5	υ	5 1	U	620	U	92 %		620	U	5	U	\circ
Ethylbenzene	_	5	U	5	U	620	U	620 U	· -	620	U	5	U	
Styrene		5	υ.	5 1	U	620	U	620 U		620	U	5	U	
Xylene (total)		5	U	5 1	U	620	U	620 U		620	U	5	U	
*= Outside of EPA	A CLP QC limits.													

		Roy F.	We	ston, Inc.		lonville Lab	ora	atory		Report Date	e: (9/23/96 12:	14
		Client · I	ат.а	CK AND DECKE	R.	Wor	k (Order: 02501	004	4001 Page:	68	L	
<u>RFW Batch N</u>	Cust ID:	VBLKCM		VBLKCM BS		VBLKHJ		VBLKHJ BS		VBLKCF		VBLKCF BS	ы С
Sample Informatior	RFW#: Matrix: D.F.: Units:	96LVX203-M WATER 1.0 UG/L	B1 0	96LVX203-ME WATER 1.00 UG/L LOW	96LVX203-MB1 WATER 1.00 UG/L LOW		9 1) ;;	96LVW167-MB1 SOIL 1.00 UG/KG LOW		96LVX204-MB1 WATER 1.00 UG/L LOW		96LVX204-ME WATER 1.00 UG/L LOW	a 1 0
Surrogate	Toluene-d8 Bromofluorobenzene	103 102 104	ato ato ato	108 107 102	8 8 8	97 94 95	90 98 95 98	97 98 99	98 98 98	100 94 100	90 90 90	98 95 100	90 90 90 90
chlorometh	ane	======================================	=f] U	L=====================================	=fl U	 10	=f1 U	.======================================	=fl U	10	=fl U	=======================================	
Bromometha Vinvl Chlo	ne pride	10 10	บ บ	10 10	ប ប	10 10	บ บ	10 10	U U	10	U U	10	U U
Chloroetha Methylene	ne Chloride	10 4	U J	10 8	U B	10 13	U -	10 9	B		J	10	JB U
Acetone Carbon Dis	sulfide	2 5	រ ប	10 5	U U	9 5	J U	5	U v	5 5	U U	 5 104	- บ ร
1,1-Dichlo 1,1-Dichlo	proethene proethane	5	บ บ	110 5	* U	5	UU	5	ง บ บ	5	U U	5	บ บ
1,2-Dichlc Chloroform	proethene (total) n	5	U U	5	UU	5	U U	5	U U	5	U U	5 5	บ บ
1,2-Dichlo 2-Butanone	proethane e	10	U U	10	U U	10	U	10	บ บ	10 5	ប ប	10 5	ប ប
1,1,1-Tric Carbon Tet	chloroethane trachloride	5	UUU	5	UU	5	U	5	U U	5 10	ប ប	5 10	ប ប
Vinyl Acet Bromodich	tate loromethane		U U	r 10	UU	5	U	5	U	5	ប ប	5 5	บ บ
1,2-Dichlo cis-1,3-D:	oropropane ichloropropene	5	Ŭ	r 5 r 5	U U	5	U	5	U S	5	บ บ	5 100	U %
Trichloro Dibromoch	ethene loromethane	5 5	ť	f 101 J 5	* U	5	U	5 5	U	5	U U	5	ប ប
1,1,2-Trio Benzene	chloroethane	5 5	t t	J 5 J 100	U 8	5	UU	93	8	5	U	100 5	ዩ ሀ
Trans-1,3	-Dichloropropene	5	τ	J 5	U	5	U	1 5 1 5	ט וז	r 5	บ บ	5	Ū

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2-Hexanone Tetrachloroethene_ 1,1,2,2-Tetrachloroethane

4-Methyl-2-pentanone____

Bromoform_

*= Outside of EPA CLP QC limits.

RFW Batch Number:	96081555 C	lient: BLAC	CK A	ND DECKER		Work O	rde	r: 025010040	01	Page: 61	b			
•	Cust ID:	VBLKCM		VBLKCM BS		VBLKHJ		VBLKHJ BS		VBLKCF	-	VBLKCF BS		
	RFW#: Level:	96LVX203-) Low	681	96LVX203-B Low	B 1	96LVW167-MI Low	B1	961.VW167-ME Low	1	96LVX204-1 Low	ØB1	96LVX204-M LOW	B 1	9
Toluene		_ 5	U	102	*	5	U	94	¥	5	U	98	*	H
Chlorobenzene		5	U	102	ક્ર	5	U	95	ક	5	U	95	¥	\bigcirc
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	
+ 0	arn og ligite													

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*= Outside of EPA CLP QC limits.

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET TENTATIVELY IDENTIFIED COMPOUNDS	
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>02</u>	501004001
Client: BLACK AND DECKER	
Matrix: WATER	Lab Sample ID: <u>9608L555-001</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:X8G17
Level: (low/med) <u>LOW</u>	Date Received: <u>08/08/96</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: <u>08/16/96</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>0</u> (ug/	ENTRATION UNITS: L or ug/Kg) <u>UG/L</u>
1	

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
ĺ			======	============	=====	
İ	1.					
1						I.

1E VOLATILE OPCANICS ANALYSIS SUE	CLIENT SAMPLE NO.
TENTATIVELY IDENTIFIED COMPO	UNDS
Lab Name: Roy F. Weston, Inc. Work Order	:: <u>02501004001</u>
Client: BLACK AND DECKER	
Matrix: <u>SEDIMENT</u>	Lab Sample ID: <u>9608L555-002</u>
Sample wt/vol: <u>4.00</u> (g/mL) <u>G</u>	Lab File ID: <u>K8J25</u>
Level: (low/med) MED	Date Received: <u>08/08/96</u>
% Moisture: not dec. <u>92</u>	Date Analyzed: 08/20/96
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>5</u>	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>

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	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	l
=			=======	=================		ł
	1.	UNKNOWN	23.182	200000	J	İ
	2.	C4-ALKYLBENZENE	23.597	200000	J	ĺ
1	3.	C4-ALKYLBENZENE	24.059	200000	J	İ
	4.	UNKNOWN	24.174	300000	J	İ
	5.	UNKNOWN	24.613	200000	J	ĺ
1_						İ

12/88 Rev.

. 1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS ?	SHEET
TENTATIVELY IDENTIFIED CON	MPOUNDS
	EL02-01-SW
Lab Name: <u>Roy F. Weston, Inc.</u> Work Ord	der: 02501004001
Client: <u>BLACK AND DECKER</u>	
Matrix: WATER	Lab Sample ID: <u>9608L555-003</u>
Sample wt/vol: _ <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: X8G18
Level: (low/med) LOW	Date Received: <u>08/08/96</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: <u>08/16/96</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
	CONCENTRATION UNITS:
Number TICs found: <u>0</u>	(ug/L or ug/Kg) <u>UG/L</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	=======================================	=======		=====
1.				

VOLATILE	1E ORGANICS ANALYSIS SHE	ET	CLIENT SAMPLE NO.
TENTATI	VELY IDENTIFIED COMPC		EL02-01-SED
Lab Name: <u>Roy F. Wes</u>	ton, Inc. Work Order	: <u>02501004001</u>	
Client: <u>BLACK AND</u>	DECKER		
Matrix:	SEDIMENT	Lab Sample ID:	9608L555-004
Sample wt/vol:	<u>5.20</u> (g/mL) <u>G</u>	Lab File ID:	W081908
Level: (low/med)	LOW	Date Received:	08/08/96
<pre>% Moisture: not dec.</pre>	92	Date Analyzed:	08/19/96
Column: (pack/cap) <u>C</u>	<u>AP</u>	Dilution Factor	c: <u>0.962</u>
Number TICs found:	_5	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/K</u>	3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		=======	=======================================	=====
1.	UNKNOWN	22.200	40000	J
2.	UNKNOWN	22.417	30000	J
3.	UNKNOWN	22.550	70000	J
4.	UNKNOWN	22.933	30000	J
5.	UNKNOWN	23.167	70000	J
<u>_</u>		l	·	

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VOLATILE TENTATI	ORGANICS ANALYSIS SHEET VELY IDENTIFIED COMPOUNDS	·	
Lab Name: <u>Roy F. Wes</u>	ton, Inc. Work Order: 025	01004001 _	L02-01-SED (D0P)
Client: <u>BLACK AND</u>	DECKER		
Matrix:	SEDIMENT	Lab Sample ID:	<u>9608L555-005</u>
Sample wt/vol:	<u>4.00</u> (g/mL) <u>G</u>	Lab File ID:	<u>K8J23</u>
Level: (low/med)	MED	Date Received:	08/08/96
<pre>% Moisture: not dec.</pre>	90	Date Analyzed:	08/20/96
Column: (pack/cap) <u>C</u>	AP	Dilution Factor	: <u>1.00</u>
	CONCE	NTRATION UNITS:	

1E

Number TICs found: <u>5</u>

6

(ug/L or ug/Kg) UG/KG

 \mathbf{RT} EST. CONC. Q COMPOUND NAME CAS NUMBER _____ 23.184 200000 J UNKNOWN 1. 23.392 100000 J 2. UNKNOWN | J 23.507 200000 з. UNKNOWN UNKNOWN 23.923 100000 J 4. J 24.177 200000 5. UNKNOWN Ł

CLIENT SAMPLE NO.

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SH TENTATIVELY IDENTIFIED COMP	EET POUNDS EL03-01-SW
Lab Name: <u>Roy F. Weston, Inc.</u> Work Orde	er: <u>02501004001</u>
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>WATER</u>	Lab Sample ID: <u>9608L555-006</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:X8H18
Level: (low/med) <u>LOW</u>	Date Received: <u>08/08/96</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: <u>08/18/96</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>0</u>	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
ĺ			=======	==============	=====
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ĺ			l		

VOLATILE TENTATI	1E ORGANICS ANALYSIS SHEET VELY IDENTIFIED COMPOUNDS	1-	CLIENT SAMPLE NO.
Lab Name: <u>Roy F. Wes</u>	ton, Inc. Work Order: 025	01004001	L03-01-SED
Client: <u>BLACK AND</u>	DECKER		
Matrix:	SEDIMENT	Lab Sample ID:	<u>9608L555-007</u>
Sample wt/vol:	<u>4.00</u> (g/mL) <u>G</u>	Lab File ID:	<u>K8J21</u>
Level: (low/med)	MED	Date Received:	08/08/96
<pre>% Moisture: not dec.</pre>	70	Date Analyzed:	08/20/96
Column: (pack/cap) <u>C</u>	AP	Dilution Factor	: <u>1.00</u>

Number TICs found: <u>5</u>

6

CONCENTRATION UNITS:

(ug/L or ug/Kg) <u>UG/KG</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=======================================		======	=================	=====
1.	UNKNOWN	23.200	80000	J
2.	UNKNOWN	23.385	50000	J
3.	UNKNOWN	23.500	60000	J
4.	UNKNOWN	23.916	50000	J
5.	UNKNOWN	24.170	60000	J

FORM 1 VOA-TIC

	1E		CLIENT SAMPLE NO.
VOLATILE (TENTATIV	ORGANICS ANALYSIS SHEET VELY IDENTIFIED COMPOUNDS	 w	L01-01-SW
Lab Name: <u>Roy F. West</u>	ton, Inc. Work Order: <u>025</u>	01004001	
Client: <u>BLACK AND I</u>	DECKER		
Matrix:	WATER	Lab Sample ID:	<u>9608L555-008</u>
Sample wt/vol:	<u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:	X8H19
Level: (low/med)	LOW	Date Received:	08/08/96
<pre>% Moisture: not dec.</pre>		Date Analyzed:	08/18/96
Column: (pack/cap) <u>Ci</u>	<u>AP</u>	Dilution Factor	: 1.00
Number TICs found:	_0 CONCE	NTRATION UNITS: , or ug/Kg) <u>UG/L</u>	

1	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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12/88 Rev.

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET TENTATIVELY IDENTIFIED COMPOUNDS	WL01-01-SW (DUP)
Lab Name: Roy F. Weston, Inc. Work Order: 0250	01004001
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>WATER</u>	Lab Sample ID: <u>9608L555-009</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: X8H20
Level: (low/med) <u>LOW</u>	Date Received: <u>08/08/96</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: <u>08/18/96</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>0</u> (ug/L	NTRATION UNITS: or ug/Kg) <u>UG/L</u>

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
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1E	C	LIENT SAMPLE NO.
VOLATILE ORGANICS ANALY	SIS SHEET	
TENTATIVELY IDENTIFIE	D COMPOUNDS	
	WI	201-01-SED
Lab Name: <u>Roy F. Weston, Inc.</u> Wor	k Order: <u>02501004001</u>	
Client: <u>BLACK AND DECKER</u>		
Matrix: <u>SEDIMENT</u>	Lab Sample ID:	<u>9608L555-010</u>
Sample wt/vol: <u>4.90</u> (g/mL)	<u>G</u> Lab File ID:	W081905
Level: (low/med) <u>LOW</u>	Date Received:	08/08/96
<pre>% Moisture: not dec. <u>64</u></pre>	Date Analyzed:	08/19/96
Column: (pack/cap) <u>CAP</u>	Dilution Factor:	1.02
	CONCENTRATION UNITS:	
Number TICs found: <u>5</u>	(ug/L or ug/Kg) <u>UG/KG</u>	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
		======	=========================	=====	ŀ
1.	UNKNOWN	22.200	200	J	l
2.	UNKNOWN	22.400	200	J	ł
3.	UNKNOWN	22.533	200	J	1
4.	UNKNOWN	22.900	200	J	
5.	UNKNOWN	23.150	200	J	l
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FORM 1 VOA-TIC

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHE TENTATIVELY IDENTIFIED COMPO	ET
Lab Name: Roy F. Weston, Inc. Work Order	: 02501004001
Client: <u>BLACK AND DECKER</u>	
Matrix: WATER	Lab Sample ID: <u>9608L555-011</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:X8H21
Level: (low/med) <u>LOW</u>	Date Received: <u>08/08/96</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: 08/18/96
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>0</u>	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>

FORM 1 VOA-TIC

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CLIENT SAMPLE NO.

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET	
TENTATIVELY IDENTIFIED COMPOUNDS	
	WL02-01-SED
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>0250100400</u>	1
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>SEDIMENT</u> Lab Sa	mple ID: <u>9608L555-012</u>
Sample wt/vol: _ <u>5.20</u> (g/mL) <u>G</u> Lab Fi	le ID: <u>W081906</u>
Level: (low/med) <u>LOW</u> Date R	eceived: <u>08/08/96</u>
<pre>% Moisture: not dec. <u>81</u> Date A</pre>	nalyzed: <u>08/19/96</u>
Column: (pack/cap) <u>CAP</u> Diluti	on Factor: <u>0.962</u>
CONCENTRATIO Number TICs found: <u>5</u> (ug/L or ug/	N UNITS: Kg) <u>UG/KG</u>

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	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
		=======================================	======		=====	l
İ	1.	UNKNOWN	22.183	3000	J	l
i	2.	UNKNOWN	22.400	4000	J	l
İ	3.	UNKNOWN	22.533	4000	J	l
İ	4.	UNKNOWN	22.900	3000	J	l
i	5.	UNKNOWN	23.150	4000	J	l
İ			<u></u>			l

FORM 1 VOA-TIC

12/88 Rev.

028

	1E		CLIENT SAMPLE NO.
VOLATILE TENTATI	ORGANICS ANALYSIS SHEET VELY IDENTIFIED COMPOUNDS	ľ	
Joh Nome, Doy E Mes	ton Inc Work Order, 025	01004001	WL03-01-SW
Lad Name: <u>Roy F. wes</u>	<u></u>	1.01001001	
Client: BLACK AND	DECKER		
Matrix:	WATER	Lab Sample ID:	<u>9608L555-013</u>
Sample wt/vol:	<u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:	X8H23
Level: (low/med)	LOW	Date Received:	08/08/96
% Moisture: not dec.		Date Analyzed:	08/18/96
Column: (pack/cap) <u>C</u>	AP	Dilution Facto	r: <u>1.00</u>
	CONCE	INTRATION UNITS:	
Number TICs found:	0 (ug/L	, or ug/Kg) <u>UG/L</u>	
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	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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	1.				
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1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SH TENTATIVELY IDENTIFIED COMP	eet ounds
Lab Name: <u>Roy F. Weston, Inc.</u> Work Orde	WL03-01-SED r: <u>02501004001</u>
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>SEDIMENT</u>	Lab Sample ID: <u>9608L555-014</u>
Sample wt/vol: <u>4.70</u> (g/mL) <u>G</u>	Lab File ID: <u>W081907</u>
Level: (low/med) LOW	Date Received: <u>08/08/96</u>
% Moisture: not dec. <u>80</u>	Date Analyzed: <u>08/19/96</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.06</u>
Number TICs found: <u>5</u>	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		======================================	======	=============	=====
	1.	UNKNOWN	22.183	100	J
	2.	UNKNOWN	22.383	200	J
	3.	UNKNOWN	22.533	200	J
	4.	UNKNOWN	22.900	200	J
	5.	UNKNOWN	23.150	200	J
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12/88 Rev.

030

	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET TENTATIVELY IDENTIFIED COMPOUNDS	TRIP BLANK
hab Name. <u>Roy 1. Webcony 1961</u>	
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>WATER</u>	Lab Sample ID: <u>9608L555-015</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: X8H22
Level: (low/med) <u>LOW</u>	Date Received: <u>08/08/96</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: <u>08/18/96</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>0</u> (ug/1	ENTRATION UNITS: L or ug/Kg) <u>UG/L</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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	1E		CLIENT SAMPLE NO.
VOLATILE (TENTATI	DRGANICS ANALYSIS SHEET	ı—	
		v	BLKBV
Lab Name: Roy F. West	ton, Inc. Work Order: <u>025</u>	01004001	
Client: BLACK AND I	DECKER		
Matrix:	WATER	Lab Sample ID:	<u>96LVX201-MB1</u>
Sample wt/vol:	<u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:	X8G04
Level: (low/med)	LOW	Date Received:	08/16/96
<pre>% Moisture: not dec.</pre>		Date Analyzed:	08/16/96
Column: (pack/cap) <u>C</u>	AP	Dilution Factor	: 1.00
	CONCE	NTRATION UNITS:	
Number TICs found:	_0 (ug/L	or ug/Kg) <u>UG/L</u>	
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	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHE TENTATIVELY IDENTIFIED COMPO	UNDS VBLKHK
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order	: 02501004001
Client: BLACK AND DECKER	
Matrix: <u>SOIL</u>	Lab Sample ID: <u>96LVK219-MB1</u>
Sample wt/vol: <u>4.00</u> (g/mL) <u>G</u>	Lab File ID: <u>K8J19</u>
Level: (low/med) MED	Date Received: <u>08/19/96</u>
<pre>% Moisture: not dec0</pre>	Date Analyzed: <u>08/19/96</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>0</u>	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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		1E				CLIENT SAMPLE NO.	
	VOLATILE C	RGANICS	ANALYSIS SHE	ET			
	TENTATIV	ELY IDE	NTIFIED COMPO	UNDS			
						VBLKCL	
Lab Name:	Roy F. West	on, Inc	<u>.</u> Work Order	: <u>0250</u>	01004001	·	
Client:	BLACK AND I	ECKER	<u></u>				
Matrix:		SOIL	_		Lab Sample ID	: <u>96LVK220-MB1</u>	
Sample wt/	/vol:	4.00	(g/mL) <u>G</u>		Lab File ID:	<u>K8K05</u>	
Level:	(low/med)	MED			Date Received:	: <u>08/20/96</u>	
% Moisture	e: not dec.	0			Date Analyzed:	: <u>08/20/96</u>	
Column: (p	oack/cap) <u>CA</u>	<u>.P</u>			Dilution Facto	or: <u>1.00</u>	
				CONCEN	TRATION UNITS:	:	
Number TIC	ls found: _	<u>0</u>		(ug/L	or ug/Kg) <u>UG/H</u>	KG	
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	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET	
TENTATIVELY IDENTIFIED COMPOUNDS	
	VBLKCK
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>02501004001</u>	
Client: BLACK AND DECKER	
Matrix: SOIL Lab Sample ID	: <u>96LVW166-MB1</u>
Sample wt/vol: _ <u>5.00</u> (g/mL) <u>G</u> Lab File ID:	W081904
• · · · · · · · · · · · · · · · · · · ·	
Level: (low/med) LOW Date Received	: <u>08/19/96</u>
<pre>% Moisture: not dec0 Date Analyzed</pre>	: <u>08/19/96</u>
Dilution East	or: 1 00
Column: (pack/cap) <u>CAP</u> Dilution Factor	or: <u>1.00</u>
CONCENTRATION UNITS	:
Number TICs found: 0 $(\mu g/I, \sigma \mu g/Kg) UG/I$	KG
Number files found. $\underline{-0}$ (dg/2 of dg/mg/	

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1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET	
TENTATIVELY IDENTIFIED COMPOUNDS	
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>025</u>	VBLKCM 01004001
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>WATER</u>	Lab Sample ID: <u>96LVX203-MB1</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: X8H13
Level: (low/med) <u>LOW</u>	Date Received: 08/17/96
% Moisture: not dec	Date Analyzed: <u>08/17/96</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
CONCE	NTRATION UNITS:
Number TICs found: <u>0</u> (ug/L	or ug/Kg) <u>UG/L</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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	1E OPGANICS ANALYSIS SH	FFT	CLIENT SAMPLE NO.
TENTATI	VELY IDENTIFIED COMP		VBLKHJ
Lab Name: <u>Roy F. Wes</u>	ton, inc. work orde	r: 02501004001 [.	
Client: <u>BLACK AND</u>	DECKER		
Matrix:	SOIL	Lab Sample ID:	96LVW167-MB1
Sample wt/vol:	<u>5.00</u> (g/mL) <u>G</u>	Lab File ID:	W082004
Level: (low/med)	LOW	Date Received:	08/20/96
<pre>% Moisture: not dec.</pre>	0	Date Analyzed:	08/20/96
Column: (pack/cap) <u>C</u>	AP	Dilution Facto	r: <u>1.00</u>
Number TICs found.	0	CONCENTRATION UNITS:	G
	<u> </u>	(-3) = 0 = (-3) = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =	<u> </u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET TENTATIVELY IDENTIFIED COMPOUNDS	VBLKCF
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>025</u>	01004001
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>WATER</u>	Lab Sample ID: <u>96LVX204-MB1</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:X8I04
Level: (low/med) <u>LOW</u>	Date Received: <u>08/18/96</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: <u>08/18/96</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: 0 (ug/L	NTRATION UNITS: or ug/Kg) <u>UG/L</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1.				
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Roy F. Weston, Inc. - Lionville Laboratory VOA ANALYTICAL DATA PACKAGE FOR BLACK AND DECKER

DATE RECEIVED: 08/08/96

RFW LOT # :9608L555

CLIENT ID	RFW	#		MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
	001			- <u> </u>	96LVX201	08/07/96	N/A	08/16/96
	002		М1	SE	96LVK219	08/07/96	N/A	08/20/96
EL01-01-SED	002		N1	SE	96LVK220	08/07/96	N/A	08/20/96
EL02-01-SW	003			W	96LVX201	08/07/96	N/A	08/16/96
EL02-01-SED	004			SE	96LVW166	08/07/96	N/A	08/19/96
EL02-01-SED	004		N1	SE	96LVK219	08/07/96	N/A	08/20/96
EL02-01-SED(DUP)	005		M1	SE	96LVK219	08/07/96	N/A	08/20/96
EL02-01-SED(DUP)	005		N1	SE	96LVK220	08/07/96	N/A	08/20/96
EL03-01-SW	006			W	96LVX203	08/07/96	N/A	08/18/96
EL03-01-SED	007		М1	SE	96LVK219	08/07/96	N/A	08/20/96
EL03-01-SED	007	MS	M1	SE	96LVK219	08/07/96	N/A	08/19/96
EL03-01-SED	007	MSD	М1	SE	96LVK219	08/07/96	N/A	08/20/96
WI.01-01-SW	008			W	96LVX203	08/07/96	N/A	08/18/96
WL01 = 01 - SW(DUP)	009			W	96LVX203	08/07/96	N/A	08/18/96
WL01 - 01 - SED	010			SE	96LVW166	08/07/96	N/A	08/19/96
WL01-01-SED	010	MS		SE	96LVW167	08/07/96	N/A	08/20/96
WL01-01-SED	010	MSD		SE	96LVW167	08/07/96	N/A	08/20/96
WI.02-01-SW	011			w	96LVX203	08/07/96	N/A	08/18/96
WL02-01-SED	012			SE	96LVW166	08/07/96	N/A	08/19/96
WL02-01-SED	012		R 1	SE	96LVW166	08/07/96	N/A	08/19/96
WI.03-01-SW	013			w	96LVX203	08/07/96	N/A	08/18/96
WL03-01-SW	013	MS		W	96LVX203	08/07/96	N/A	08/18/96
WL03-01-SW	013	MSD		w	96LVX204	08/07/96	N/A	08/18/96
WL03-01-SED	014	1.00		SE	96LVW166	08/07/96	N/A	08/19/96
TRIP BLANK	015			W	96LVX203	08/07/96	N/A	08/18/96
AB QC:								
	MD 3			7.7	061 112 201	NI / D	N / A	08/16/96
VBLKBV	MDI			Ň	96108201	N/A	N/A N/A	08/19/96
VBLKHK	MBT	50		5	96LVK219	N/A	N/A N/A	08/19/90
VBLKHK	MB1	BS		S	96LVK219	N/A	N/A N/A	08/20/96
VBLKCL	MBI			S	96LVK220	N/A	N/A N/A	08/20/96
	MBI			5	96TAM100	N/A	N/A	00/13/90
VBLKCM	MB1			W	96LVX203	N/A	N/A N/D	08/17/96
VBLKCM	MB1	BS		W	96LVX203	N/A	N/A N/A	00/1//90
VBLKHJ	MB1	-		S	96LVW167	N/A	N/A N/N	08/20/96
VBLKHJ	MB1	BS		S	96LVW167	N/A	N/A	08/20/96
VBLKCF	MB1			W	96LVX204	N/A	N/A	08/18/96
VBLKCF	MB1	BS		W	96LVX204	N/A	N/A	08/18/96

WESTON AND GUC:84	alytics U	Ise Only	C VSKIU	ustod	ly 1	ˈ ra	nsfe	er Ro	ecol	rd/L	.ab	W	ork	(R	eq	ue	st					5		<u>]</u>
Client Good	<u> </u>	Hamos	Fred b	ACK+D	POLL	er	Refrige	erator #				T							r i				<u> </u>	-
Est. Final Proj	. Samp	ling Date	7 Avg	15+96			#/Type	Container	Liqu															40
Work Order # UZS01 -004-001 Project Contact/Phone # CHRIS HARRIS /60-701-7203							Volum	e	Liqu	d 40-	4										_			ᅴᅌ
AD Project Ma	Project Manager DIANA SAGCES						Preser	vatives	- Lig.	HU	1													
oc_STD		1_57	2 TAT S	TD 30	2 DF	IY .					OR	GANIC					INC	DRG						
Date Rec'd	Date Rec'd Stallo Date Due 48-7-96							ISES ISTED	VOA	BNA	Pest/ PCB	Herb				Metal	N S							
					T				T					WE	STON	Analy	ytics	Use O	nly	╵┥				
MATHIX CODES: S - Soil SE - Sediment SO - Solid	Lab ID		Client ID/Desc	cription		trix C sen /)	Matrix	Date Collected	Time Collecte	8240	-													
SL - Sludge W - Water	1001	FINI	-al-su			mou	111	BA las	Main		1					1								-
O- Oil	$\frac{cor}{2}$	LLUI LINI					ST.	7776	MAR	έKƏ	╆												<u> </u>	
A - Air DS - Drum	4	ELDI	-01-30	<u> </u>				┨╂──	20107	K	+					<u> </u>			<u> </u>				— 	
Solids DL - Orum	C	<u>EL 02</u>	-01-51	<u>v</u>			W	 	0715	\rightarrow	<u> </u>					 	<u> </u>	 						
Liquids	4	ELØ2	-01-58	<u>D</u>	_		SE		0920	니즈	[
Leachate	5	ELØ2	-91-50	=D (Ovp.)			SE		0920	\times	1													
WI - Wipe X - Other	6	ELO3	5-01-51	W			W		0930	NX	1													
F - Fish	7	ELO3	3-01-51	ED			SE		0935	-1	1	1												-1
	s l	WI OI	-01-0	JAL			11)		1005	TX														
		W BI		N(n, a)				╂─┼─	langer	Tx	1													
	- 9	WLOI	- 101->0				Corr.	1.17	1003	ĸ	ᡟ—				├								<u> </u>	
	010	ML@(-01-5	<u>ED</u>	1		26		1010		·				I		L						<u></u>	
FIELD PERSON	INEL: C	OMPLETEC	DNLT SHADE	U AHEAS		יו	DATE/RE	VISIONS:										WE	STON	Analyt	tics U	se On	iy` _n `Vi)
	F	lecelved	Date	Time	<u>le.0^c</u> Relin	- - - - - - -	ned	2 3 4 5 6 Receive	be	Date		me	Disc	(40,200		tween	- Si - 1) - Ai - 2) - 3) - Ci 4) - Pi	amples Shippe and De rbill # _ Ambie Receive ondition Labels roperly	were: ed livered wed in C ved in C	hilled àood k N te ved r N	COC 1) Pro Pack 2) Ur Pack 3) Pro 4) Ur Samp	Tape esent o age broker age Y esent o Y broker ble Y	Duter or N von Outer or N on Samp or N on Samp or N	
Ales	28	by oder	5/2/94	1000		by		by					Sam COC NOT	iples Li C Reco TES:	abels a rd? Y) H	5) Received Within Holding Times			COC Record Present Upon Sample Rec't Y br N			t -
RFW 21 001/A-	7/91			L372	2 <u>·</u>		L373	L	375	، بر	377	ایــــــ ا ست ا	_ L37	78	Ref#			_ Coo	oler#				381-9	596a

ains &	$L \subset C$	Jse Only	, C	ustoc	lv 1	Fra	nsf	er	Re	ecor	d/l	ah	W	ork	R			et			K	X.S.	JC	N
TUC D	7		X 8/8/4	6			0-6-									<u> </u>	uc:	J L			Pa	ge <u>2</u>	<u></u> of	2
Est. Final Proj	. Samp	ling Date	7 Avg	1084 76	<u>L+1</u>	<u>xu</u>	#/Type	erato erato	or #	Liquid	pkg												\square	
Work Order # 02501 -004-001 Project Contact/Phone # Chris Harris /610-701-7203					Volum	Volume		Liquid	40											+				
AD Project Manager				Prese	vativ	/85	Ligra	l He												┟──┤				
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Date Rec'd Date Due Account #					REQU	ESTED			VOA	BNA	BNA Pest/ PCB					Metal	S							
MATRIX	Mater Mater			trix					*		· ·		WE	STON	Analy	tics L	lse Or	nly			44			
S - Soil SE - Sediment SO - Solid	Lab ID		Client ID/Des	cription		AC osen √)	Matrix	Co	Date llected	Time Collected	0226													
SL - Sludge W - Water D - Oil	011	WLØ2	-101-5	W	MS	MSD	W	1	196	1020	\mathbf{x}	1										+	┝──┤	
A - Air DS - Drum	11Z	WLØZ	-01-5	ÆP			SE			1025	ÍX	1												
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FEBRUARY 1997

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Roy F. Weston, Inc. 208 Welsh Pool Road Lionville, Pennsylvania 19341-1333 8 610-701-6100 • Fax 610-701-6140

LIONVILLE LABORATORY ANALYTICAL REPORT

Client : BLACK AND DECKER RFW# : 9702L324

W.O. #: 02501-004-001-9999-00 Date Received: 02-20-97

GC/MS VOLATILE

The set of samples consisted of eight (8) water samples and seven (7) sediment samples collected on 02-20-97.

The samples were analyzed according to criteria set forth in SW 846 Method 8240 for TCL Volatile target compounds on 02-24,25,26,27,28-97.

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. The required holding time for analysis was met.
- 3. Non-target compounds were detected in these samples.
- 4. The following samples required dilution/medium level analysis because they contained high levels of non-target compounds:

Sample ID	Dilution Factor
EL01-02-SED	Medium
EL02-02-SED	Low & 5 (nominal)
EL03-02-SED	Low & 5 (nominal)
WL01-02-SED DUP.	Low & 5 (nominal)
WL02-02-SED, RE	Low & 5 (nominal)

5. Six (6) of eighty-seven (87) surrogate recoveries were outside EPA QC limits. Sample EL01-02-SED was analyzed medium level on 02-27-97 and reported. Sample WL02-02-SED was reanalyzed on 02-26-97 and reported. The analysis of sample WL03-02-SED fulfilled the reanalysis requirement for its associated matrix spike sample.

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 38 pages.

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- 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.

unit leader For J. Michael Taylor

Vice President and Laboratory Manager Lionville Analytical Laboratory

3-17-97 Date



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.

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GLOSSARY OF VOA DATA

ABBREVIATIONS

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	2	Dilution Factor.
NR	=	Not Required.
SP, Z	=	Indicates Spiked Compound.

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		Roy F.	We	ston, Inc.	- I	ionville La	bor	atory					
			v	olatiles by	GC	MS, HSL Li	st			Report Dat	e:	03/16/97 22	2:
RFW Batch Number:	9702L324	<u>Client:</u>	BLA	CK AND DECK	ER	Wo	rk	<u>Order: 0250</u>	100	<u>4001 Page:</u>	1	<u>a</u>	
	Cust ID:	EL01-02-SW	1	EL01-02-SW	1	EL01-02-SW	1	EL01-02-SW DUP.		EL01-02-SE	D	EL01-02-SH	ED
Sample Information	RFW#: Matrix:	001 Water	L	001 MS Water	;	001 MSD WATER)	002 WATER		003 Sedimen	T	003 Sedimer	3 NT
	D.F.: Units:	1.0 UG/I	0	1.0 UG/L	0	1.0 UC/L	0	1.00 UG/L	0	4.5 UC/K	5 'G	1.(UG/I	00 00
	Level:	LOW	,	LOW		LOW		LOW		LOW		MED	КG
												REPI	RE
	Toluene-d8	93	ofo	100	elo elo	100	ş	96	оłо	122 *	o\o	75 1	*
Surrogate Brog	mofluorobenzene	88	왕	95	ક્ર	95	ક	92	8	66 *	olo Olo	77	
Recovery 1,2-Di	chloroethane-d4	99	8 61	105	8	105	8	105	8	110	۶ ۶	75	
Chloromethane		=======================================	11=: TT	=========== 10	11=: דז	.======================================	בב= דד	10	T T =	450	ב I =: דו	12000	= =
Bromomethane	· · · · · ·	10	U	10	U	10	U	10	U	450	U	12000	
Vinvl Chloride		10	Ū	10	U	10	U	10	U	450	Ū	12000	
Chloroethane		10	U	10	U	10	U	10	U	450	U	12000	
Methylene Chloride	· • • • •	. 5	U	5	U	5	U	5	U	490	в	11000	
Acetone		54	в	47	в	47	в	53	в	2800	в	12000	
Carbon Disulfide		5	U	5	U	5	U	5	U	100	J	6200	
1,1-Dichloroethene		5	U	104	웅	103	8	5	U	230	U	6200	
1,1-Dichloroethane		5	U	5	U	5	U	5	U	230	U	6200	
1,2-Dichloroethene	(total)	5	U	5	U	5	U	5	U	230	U	6200	
Chloroform		3	J	3	J	3	J	3	J	230	U	6200	
1,2-Dichloroethane		5	U	5	U	5	U	5	U	230	U	6200	
2-Butanone		10	U	10	υ	10	U	10	U	810		12000	
1,1,1-Trichloroeth	ane	5	U	5	U	5	U	5	U	230	U	6200	
Carbon Tetrachlori	de	. 5	U	5	U	5	U	5	U	230	U	6200	
Vinyl Acetate		10	U	10	U	10	U	10	U	450	U	12000	
Bromodichlorometha	ne	5	U	5	U	5	U	5	U	230	U	6200	
1,2-Dichloropropan	e	5	U	5	U	5	U	5	U	230	0	6200	
cis-1,3-Dichloropro	opene	5	U	5	U	5	U	5	U 	230	0	6200	
Trichloroethene		5	U	107	*	107	*	5	0	230	0	6200	
Dibromochlorometha	ne	5	U ••	5	0	5	U TT	5	U	230	U 77	6200	
1,1,2-Trichloroeth	ane	5	0	5	ů	5	0	5	U 77	230	17	6200	
Benzene		5	U 17	107	র্ত মন	107	์ 	5	U	230	U 17	6200	
Trans-1,3-Dichloro	propene	5	U 17	5	U 77	5	U	5	U	230	יד דד	6200	
Bromororm		5	U 17	5	U TT	5	U 11	5	U TT	23U 450	יי	12000	
4-metny1-2-pentano	ne	10	U TT	10	U 77	01	U 11	10	U TT	400	U 11	12000	
Z-mexanone	• · · · · · · · · · · · · · · · · · · ·		U 11	10	U TT	T0	U 11	E TO	U TT	400	U TT	12000	
recrachioroethene_		. 5	U	5	U	Ç	0	3	U	230	U	0200	

<u>RFW Batch Number:</u>	9702L324 C1:	ient: BLAC	<u>IK A</u>	ND DECKER		Work (Orde	er: 02501004	001	Page: 1b		
	Cust ID: 1	EL01-02-SW	7	EL01-02-SV	V	EL01-02-SV	W	EL01-02-SV	T	EL01-02-SED	EL01-02-SED	
	RFW#: Level:	001 Low	-	001 MS LOW	5	001 MSI Low	D	DUP. 002 LOW	:	003 Low	003 Med	
											REPREP	, O
Toluene		5	U	108	용	108	웅	5	U	230 U	6200 U	, О
Chlorobenzene		5	U	104	왕	103	ક્ષ	5	U	230 U	6200 U	, 0
Ethylbenzene		5	U	5	U	5	U	5	U	110 J	6200 U	J
Styrene		5	U	5	U	5	U	5	U	230 U	6200 U	ſ
Xylene (total)		5	U	5	U	5	U	5	U	1200	6200 U	ſ
	OLD OG 14-4-											

		Roy F.	We	ston, Inc.	- L	ionville La	bor	atory					
		67 1	V	olatiles by	GC	MS, HSL Li	st	0	100	Report Date	e:	03/16/97 22	::
RFW Batch Number: 9702	21324	Client:	BLA	CK AND DECK	<u>ER</u>	wo.	rĸ	Order: 0250	100	4001 Page:	2	<u>a</u>	
	Cust ID: H	EL02-02-SW	r	EL02-02-SE	D	EL03-02-SW		EL03-02-SE	D	WL01-02-SW		WL01-02-SE	D
Sample	RFW#:	004		005	_	006		007	-	800		009 CEDIMEN) T
Information	Matrix:	WATER		SEDIMEN'	т -	WATER	•	SEDIMEN	T O	WATER	^	SEDIMEN	11
	D.F.:	1.0	0	4.5	5	1.0	U	5.0	0		0		202
	Units:	UG/L	,	UG/K	G	UG/L		UG/K	G	UG/L		UG/N	G
	Level:	LOW		LOW		LOW		LOW		LOW		TOM	
	Toluene-d8	94	왕	109	ş	96	ş	96	es es	96	es S	110	
Surrogate Bromof]	luorobenzene	88	8	102	봥	90	ષ્ઠ	91	웅	89	움	77	
Recovery 1,2-Dichlo	proethane-d4	102	%	109	웅	104	ş	98	왕	106	8	101	
			=f1	===========	=f1	.==========	=fl	=================	=f1		=f1	=======================================	==:
Chloromethane		10	U	99	U	10	U 11	520		10	U 11	31	
Bromomethane		10	0	99	0	10	11	520	т	10	11	31	
Vinyl Chloride		10	17	99	U	10	11	520	11	10	11	31	
Chloroethane	<u> </u>	10	11	99	U P	10	11	520	5	10	11	17	
Methylene Chloride		5	U D	120	D D	5	U D	1500	B	13	B	270	
Acetone		53	ы Б	130	ы 11	54	ТТ	74	.т	5	ц	4	
Carbon Disulfide	·	5	11	50	TT U	5	11	260	л П	5	U U	16	
1,1-Dichloroethene		5	11	50	11	5	п	260	л П	5	U	16	1
1, 1-Dichloroethane	<u></u>	5	11	50	т П	5	π	260	U	5	Ū	16	
Chloroform	Juan /	3	.т	50	υ	3	J	260	Ū	5	Ū	16	
1 2-Dichloroethane		5	U U	50	U	5	U	260	Ū	5	Ū	16	
2-Butanone		10	U	99	Ū	10	Ū	. 390	J	10	U	74	
1 1 1-Trichloroethane	· · · · · · · · · · · · · · · · · · ·	5	U	50	Ū	5	U	260	U	5	U	16	
Carbon Tetrachloride	<u>.</u>	5	Ū	50	U	5	U	260	U	5	U	16	
Vinvl Acetate		10	U	99	U	10	U	520	U	10	U	31	•
Bromodichloromethane		5	U	50	U	5	U	260	U	5	U	16	
1,2-Dichloropropane	·	5	U	50	U	5	U	260	U	5	U	16	
cis-1,3-Dichloroproper	ne	5	U	50	U	5	U	260	U	5	U	16	
Trichloroethene		5	U	50	U	5	U	260	U	5	U	16	
Dibromochloromethane		5	U	50	U	5	U	260	U	5	U	16	
1,1,2-Trichloroethane		5	U	50	U	5	U	260	U	5	U	16	
Benzene		5	U	22	J	5	U	72	J	5	U	16	
Trans-1,3-Dichloroprop	pene	5	U	50	U	5	U	260	U	5	U	16	
Bromoform		5	U	50	U	5	U	260	U	5	U	16	
4-Methyl-2-pentanone		10	U	99	U	10	U	520	U	10	U	31	
2-Hexanone		10	U	99	U	10	U	520	U	10	U	31	
Tetrachloroethene		5	U	50	U	5	U	260	U	5	U	16	

<u>RFW Batch Number</u>	<u>: 9702L324</u>	C1;	<u>ient: BLAC</u>	CK 2	AND DECKER		Work O	rde	r: 02501004	001	Page: 21	b		
	Cust	Cust ID: 1		W	EL02-02-SE	D	EL03-02-SW	1	EL03-02-SE	D	WL01-02-ST	W	WL01-02-S	ED
	I Le	RFW#: evel:	004 LOW	4	005 Low		006 Low		007 LOW		008 LOW	B	00 Low	و م
Toluene	· · · · ·		5	U	50	U	5	U	260	U	5	U	16	O
Chlorobenzene			5	U	50	U	5	U	260	U	- 5	U	16	J. J. J.
Ethylbenzene			5	U	50	U	5	U	260	U	5	U	16	U
Styrene			5	U	50	U	5	U	260	U	5	U	16	υ·
Xylene (total)			5	U	50	U	5	U	260	U	5	U	16	U

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*= Outside of EPA CLP QC limits.

•		Roy F.	We V	eston, Inc. Volatiles by	- I GC	Lionville La C/MS, HSL Li	bor st	atory		Report Date:	03/16/9	7 22	:0
RFW Batch Num	ber: 9702L324	Client:	BLA	CK AND DECK	ER	Wo	rk	Order: 0250	100	4001 Page:	<u>3a</u>		
	Cust ID:	WL01-02-SE DUP.	D	WL02-02-SW	r	WL02-02-SE	D	WL02-02-SE	D	WL03-02-SW	WL03-0)2-SE	D
Sample Information	RFW#: Matrix: D.F.: Units:	010 SEDIMEN 4.1 UG/K	010 SEDIMENT 4.17 UG/KG		0	012 SEDIMEN 4.5 UG/K	T 5 G	012 SEDIMEN 4.1 UG/K0	Г 7 3	013 WATER 1.00 UG/L	SEI	014)IMEN 1.0 UG/K	T 2 G
	Level:	LOW		LOW		LOW		LOW	ΞP	LOW		LOW	
	Toluene-d8	102	olo	95	oło	102	alo	120 *	<u>२</u> ४	98 %	5]	.10	90
Surrogate	Bromofluorobenzene	79	ક	89	8	72 *	ę	77	99	91 %	5	82	ę
Recovery 1	,2-Dichloroethane-d4	102	ያ £1	106	8 £ገ	102	ໍ່ຮູ 	96	१ २१	108 %	5 = 1	99	ې ډ
Chloromethane		130	י=ר ע	10	יד=: ע	 160	נז=: U	.======================================	בד= ת		.1======= J	·==== 52	1= t
Bromomethane		130	U	10	Ū	160	U	140	Ū	10 U	J	52	τ
Vinyl Chloride	2	130	U	10	U	160	U	140	U	10 U	J	52	τ
Chloroethane		130	U	10	U	160	U	140	U	10 U	J	52	τ
Methylene Chlo	oride	- 110	в	5	U	150	₿	160	в	8 E	3	58	E
Acetone	•	- 960	в	13	в	320	в	180	в	12 E	3	350	E
Carbon Disulf:	ide	28	J	5	U	78	U	72	U	5 U	J	8	Ĵ
1,1-Dichloroet	thene	67	U	5	U	78	U	72	U	5 U	J	26	τ
1,1-Dichloroet	thane	- 67	U	5	U	78	U	72	U	5 C	J	26	τ
1,2-Dichloroet	thene (total)	67	U	5	U	78	U	72	U	5 U	J	26	τ
Chloroform		67	U	5	U	78	U	72	U	5 T	J	26	t
1,2-Dichloroet	chane	67	U	5	U	78	U	72	U	5 T	J	26	τ
2-Butanone		320		10	U	160	U	140	U	10 U	J .	76	
1,1,1-Trichlor	roethane	67	U	5	U	78	U	72	U	5 T	J	26	U
Carbon Tetrack	nloride	67	U	5	U	78	U	72	U	5 U	J	26	U
Vinyl Acetate		130	U	10	U	160	U	140	U	10 U	J	52	τ
Bromodichloror	methane	_ 67	U	5	U	78	U	72	U	5 T	J	26	t
1,2-Dichlorop	ropane	67	U	5	U	78	U	72	U	5 T	J	26	τ
cis-1,3-Dichlo	propropene	_ 67	U	5	U	78	U	72	U	5 C	J	26	τ
Trichloroether	ne	_ 67	U	5	U	78	U	72	U	5 T	J	26	τ
Dibromochloro	nethane	67	U	5	U	78	U	72	U	5 U	J	26	τ
1,1,2-Trichlo	roethane	67	U	5	U	78	U	72	U	5 U	J	26	τ
Benzene		_ 67	U	5	U	78	U	72	U	5 C	J	26	τ
Trans-1,3-Dich	nloropropene	67	U	5	U	78	U	72	U	5 T	J	26	τ
Bromoform		67	U	5	U	78	U	72	U	5 U	J	26	τ
4-Methyl-2-per	ntanone	130	U	10	U	160	U	140	U	10 U	J	52	τ
2-Hexanone	x	130	U	10	U	160	U	140	U	10 U	J	52	τ
Tetrachloroeth	nene	67	U	5	U	78	U	72	U	5 U	J	26	U

<u>RFW Batch Number:</u>	9702L324 C1	ient: BLACK	AND DECKER		<u> Work (</u>	Orde	r: 02501004001	Page: 3h	S		
	Cust ID:	WL01-02-SED	WL02-02-SV	N.	WL02-02-SE	3D	WL02-02-SED	WL03-02-SP	- 1	WL03-02-SED	
		DUP.									
	RFW#:	010	011	L	012	2	012	013	3	014	
	Level:	LOW	LOW		LOW		LOW	LOW		LOW	
· · · · · · · · · · · · · · · · · · ·							REPREP			2011	. 0
Toluene		67	U 5	U	78	U	72 U	5	U	26	
Chlorobenzene		67	U 5	U	78	U	72 U	5	Ū	26	Ŭ O
Ethylbenzene		67	U 5	U	78	U	72 U	5	Ū	26	с П
Styrene		67	U 5	U	78	U	72 U	5	Ū	26 1	U
Xylene (total)		67	U 5	U	78	U	72 U	- 5	Ū	26 1	
+ Outraids of TDD	GID OG limite							0	-	20 (-

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		Roy F	. We	ston, Inc.	- 1	ionville La	bor	atory					
			V	volatiles by	y GC	C/MS, HSL Li	.st			Report Dat	e:	03/16/97 2	2:0
<u>RFW Batch N</u>	umber: 9702L324	<u>Client:</u>	BLA	CK AND DECK	KER	WC	ork	<u> Order: 0250</u>	100	4001 Page:	4	<u>a</u>	
	Cust ID:	WL03-02-SH	ED	WL03-02-SF	BD	TRIP BLANK		VBLKMN		VBLKME		VBLKME BS	
Sample Information	RFW#: Matrix:	014 MS Sedimen	5 NT	014 MSI Sedimen	О Т	015 Water	i	97LVG037-M WATER	B1	97LVG038-M Water	1 B1	97LVG038- 1 WATER	MBI
	D.F.:	0.98	30	0.96	52	1.0	0	1.0	0	1.0	0	1.0	00
	Units:	UG/H	κG	UG/F	G	UG/L	ı –	UG/L		UG/L	J	UG/I	L
	Level:	LOW		LOW		LOW		LOW		LOW		LOW	
	Toluene-d8	125 *	+ 8	112	왕	98	양	99	Ŷ	98	8	100	- 9
Surrogate	Bromofluorobenzene	89	શ્ર	85	ક	91	용	93	양	91	8	94	8
Recovery	1,2-Dichloroethane-d4	109	ዩ 51	100	8	99	8	104	8	103	8	104	9
Chloromethan		======================================	דב== ת		==11 U	=======================================	=11: U	=======================================	=±⊥ TI	=================== 10	=fl: TT	=== = ================================	==f T
Bromomethane	e	- 50	U	49	Ū	10	Ū	10	Ū	10	U	10	T T
Vinyl Chlor:	ide	- 50	U	49	Ū	10	Ū	10	U	10	U	10	T
Chloroethane	5	- 50	U	49	U	10	Ū	10	U	10	Ū	10	r
Methylene Ch	loride	29	в	36	в	3	JB	4	J	2	J	2	с न
Acetone		- 690	в	450	в	10	U	2	J	1	J	10	Ū
Carbon Disul	lfide	11	J	8	J	5	U	5	U	5	U		τ
1,1-Dichlord	pethene	130	왕	120	ş	5	U	5	U	5	U	88	8
1,1-Dichlord	oethane	25	U	24	U	5	U	5	U	5	U	5	U
1,2-Dichloro	ethene (total)	25	U	24	U	5	U	5	U	5	U	5	U
Chloroform_		_ 25	U	24	U	5	U	5	U	5	U	5	U
1,2-Dichloro	ethane	25	U	24	U	5	U	5	U	5	U	5	U
2-Butanone		_ 150		100		10	U	10	U	10	U	10	U
1,1,1-Trich]	oroethane	_ 25	U	24	U	5	U	5	U	5	U	5	U
Carbon Tetra	chloride	_ 25	U	24	U	5	U	5	U	5	U	5	U
Vinyl Acetat	.e	50	U	49	U	10	U	10	U	10	U	10	U
Bromodichlor	comethane	25	U	24	U	5	U	5	U	5	U	5	U
1,2-Dichlord	propane	_ 25	U	24	U	5	U	5	U	5	U	5	U
cis-1,3-Dich	lloropropene	_ 25	U	24	U	5	U	5	U	5	U	5	U
Trichloroeth	iene	90	*	86	봉	5	U	5	U	5	U	90	8
Dibromochlor	comethane	_ 25	U	24	U	5	U	5	U	5	U	5	U
1,1,2-Trichl	oroethane	25	Ŭ	24	U	5	U	5	U	5	U	5	U
Benzene		_ 107	농	93	*	5	U	5	U	5	U	90	a,
Trans-1,3-Di	cnioropropene	_ 25	0	24	U	5	U	5	U	5	U	5	U
Bromororm		25	U ••	24	0	5	U	5	U	5	U	5	U
4-Metny1-2-p	pentanone	- 50	U	49	U ••	10	U	10	U	10	U	10	U
∠-Hexanone	**	- 50	U 	49	U	10	U	10	U	10	U	10	U
ietrachioroe	cnene	- 25	U	24	U	5	U	5	U	5	Ŭ	5	U

RFW Batch Number: 9702	2 L324 Cl	ient: BLAC	<u>ck</u>	AND DECKER			Work C	rde	r: 02501004	001	Page: 4b				
	Cust ID:	WL03-02-SE	3D	WL03-02-SE	D	TRIP	BLANK	5	VBLKMN		VBLKME		VBLKME BS		
	RFW#: Level:	014 MS LOW	3	014 MSE Low)		015 LOW	;	971VG037-M Low	B1	97LVG038-M Low	в1	971VG038-M Low	B 1	\sim
Toluene		115	ş	103	oło		5	U	5	U	5	TT	92	ę	
Chlorobenzene		98	왕	94	ş		5	U	5	Ū	5	U	90	ş	0
Ethylbenzene		25	U	24	U		5	Ū	5	Ū	5	U	5	τ	
Styrene		25	U	24	U		5	U	5	Ū	5	Ū	5	п	
Xylene (total)		25	U	24	U		5	U	5	Ū	5	U	5	U	



		Roy F	. We	ston, Inc.	- 1	Lionville La	bor	atory				
			V	Volatiles by	/ GC	C/MS, HSL Li	st	_		Report Dat	te:	03/16/97 22:0
RFW Batch Nur	nber: 9702L324	<u>Client:</u>	BLA	CK AND DECH	KER	Wo	<u>rk</u>	<u>Order: 0250</u>	100	4001 Page:	: 5	<u>a</u>
	Cust ID:	VBLKMR		VBLKMR BS		VBLKNB		VBLKMY		VBLKMQ		
Sample Information	RFW#: Matrix:	97LVX033-1 SOIL	MB1	97LVX033-N Soti	1B1	97LVW999-M	в1	97LVX036-M	в1	97LVX034-N	MB1	(
	D.F.:	1.0	00	1.0	00	1.0	0	1.0	0	1.0	00	
	Units:	UG/I	KG	UG/F	G	UG/K	G	UG/K	G	UG/H	KG	
	Level:	LOW		LOW		MED		LOW	-	LOW		
•	Toluene-d8	108	ક	103	8	101	e,	97	8	106		
Surrogate	Bromofluorobenzene	111	શ્ર	104	ક	96	ş	99	ę	107	5	
Recovery 2	1,2-Dichloroethane-d4	99	ę	100	ş	99	ş	92	ક	89	ş	
-			==f1		==f1	.==============	=f1		=f1		==f1	========f
Chloromethane	2	10	U	10	U	1200	U	10	U	10	U	
Bromomethane		10	U	10	U	1200	U	10	U	10	U	
Vinyl Chlorid	le	10	U	10	U	1200	U	10	U	10	U	
Chloroethane		10	U	10	U	1200	U	10	U	10	U	
Methylene Chl	loride	. 8		11	в	1100		6		15		
Acetone		_ 15		16	в	2600		3	J	17		
Carbon Disulf	fide	_ 5	U	5	U	620	U	5	U	5	U	
1,1-Dichloroe	ethene	_ 5	U	71	ક	620	U	5	U	5	U	
1,1-Dichloroe	ethane	_ 5	U	5	U	620	U	5	U	5	U	
1,2-Dichloroe	ethene (total)	_ 5	U	5	U	620	U	5	U	5	U	
Chloroform		_ 5	U	5	U	620	U	5	U	5	U	
1,2-Dichloroe	ethane	5	U	5	U	620	U	5	U	5	U	
2-Butanone		10	U	10	U	1200	U	10	U	10	U	
1,1,1-Trichlo	proethane	_ 5	U	5	U	620	U	5	υ	5	U	
Carbon Tetrac	chloride	5	U	5	U	620	U	5	U	5	U	
Vinyl Acetate	e	10	U	10	U	1200	U	10	U	10	U	
Bromodichloro	omethane	_ 5	U	5	U	620	U	5	U	5	U	
1,2-Dichlorop	propane	_ 5	U	5	U	620	U	5	U	5	U	
cis-1,3-Dichl	loropropene	_ 5	U	5	U	620	U	5	U	5	U	
Trichloroethe	ene	_ 5	U	89	90	620	U	5	U	5	U	
Dibromochloro	omethane	_ 5	U	5	U	620	U	5	U	5	U	
1,1,2-Trichlo	proethane	_ 5	U	5	U	620	U	5	U	5	U	
Benzene		_ 5	U	95	8	620	U	5	U	5	U	
Trans-1,3-Dic	chloropropene	_ 5	U	5	U	620	U	5	U	5	U	
Bromoform		- 5	U	5	U	620	U	5	U	5	U	
4-Methyl-2-pe	entanone	10	U	10	U	1200	U	10	U	10	U	
2-Hexanone		10	U	10	U	1200	U	10	U	10	U	
Tetrachloroet	hene	5	U	5	U	620	U	5	U	5	U	

RFW Batch	n Numb <u>er:</u>	9702L32	4 C	lient: BLA	CK A	ND DECKER		Work C	Orde	r: 02501004	001	Page: 5b		
			Cust ID:	VBLKMR		VBLKMR BS		VBLKNB		VBLKMY		VBLKMQ		
			RFW#: Level:	97LVX033-1 Low	MB1	971VX033-M Low	181	971.vw9999-m MED	œ1	97LVX036-M LOW	B1	97LVX034-M LOW	B1	4
Toluene				5	U	91	ષ્ટ	620	U	5	U	5	U	—
Chlorober	nzene			_ 5	U	91	뢍	620	U	5	U	5	U	\cup
Ethylbenz	zene			5	U	5	U	620	U	5	U	5	U	
Styrene				5	ប	5	U	620	U	5	U	5	U	
Xylene (t	cotal)			5	U	5	U	620	υ	5	U	5	U	
	1 -		12-2-2-2	_										

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*= Outside of EPA CLP QC limits.

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1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET	
TENTATIVELY IDENTIFIED COMPOUNDS	
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>02</u>	EL01-02-SW
Client: BLACK AND DECKER	
Matrix: <u>WATER</u>	Lab Sample ID: <u>9702L324-001</u>
Sample wt/vol: _ <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>q022411</u>
Level: (low/med) <u>LOW</u>	Date Received: <u>02/20/97</u>
% Moisture: not dec	Date Analyzed: <u>02/24/97</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found:1CONC	ENTRATION UNITS: L or ug/Kg) <u>UG/L</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	2-PENTANONE, 4,4-DIMETHYL-	======= 19.235	======================================	===== NJ
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1E VOLATILE ORGANICS ANALYSIS	CLIENT SAMPLE NO.
TENTATIVELY IDENTIFIED C	OMPOUNDS
Lab Name: Roy F. Weston, Inc. Work O	EL01-02-SW DUP.
Client: BLACK AND DECKER	
Matrix: <u>WATER</u>	Lab Sample ID: <u>9702L324-002</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>q022412</u>
Level: (low/med) <u>LOW</u>	Date Received: 02/20/97
<pre>% Moisture: not dec</pre>	Date Analyzed: 02/24/97
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>1</u>	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>
CAS NUMBER COMPOUND	NAME RT EST. CONC. Q

2-PENTANONE, 4,4-DIMETHYL- | 19.232|10

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1. 590501

FORM 1 VOA-TIC

12/88 Rev.

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VOLATILE	ORGAN	JICS	ANALYSI	ſS	SHEET	
TENTAT	IVELY	IDEN	NTIFIED	CC	MPOUNDS	;

CLIENT SAMPLE NO.

EL01-02-SED

Lab Sample ID: <u>9702</u>L324-003

Lab File ID: <u>x022506</u>

Date Received: 02/20/97

Date Analyzed: 02/25/97

Dilution Factor: 4.55

Lab Name: Roy F. Weston, Inc. Work Order: 02501004001

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Client:	BLACK	AND	DECKER
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Matrix: <u>SEDIMENT</u>

Sample wt/vol: <u>1.10</u> (g/mL) <u>G</u>

Level: (low/med) LOW

% Moisture: not dec. <u>90</u>

Column: (pack/cap) <u>CAP</u>

Number TICs found: <u>8</u>

CONCENTRATION UNITS:

(ug/L or ug/Kg) <u>UG/KG</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=================	=======================================	=======	=============	=====
1.	ALKANE	21.256	200	
2.	UNKNOWN	22.073	500	
3.	ALKANE	22.438	400	
4.	CYCLOALKANE	22.831	200	
5.	UNKNOWN	23.126	200	
6.	UNKNOWN	23.412	300	
7.	UNKNOWN	24.160	200	
8.	C4-ALKENYLBENZENE	24.809	200	

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS :	SHEET
TENTATIVELY IDENTIFIED CON	MPOUNDS
Lab Name: Roy F. Weston, Inc. Work Ord	EL02-02-SW der: <u>02501004001</u>
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>WATER</u>	Lab Sample ID: <u>9702L324-004</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>q022413</u>
Level: (low/med) LOW	Date Received: <u>02/20/97</u>
% Moisture: not dec	Date Analyzed: <u>02/24/97</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>2</u>	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=======================================	=======================================	======	================	=====
1. 79209	METHYLACETATE	9.670	8	NJ
2. 590501	2-PENTANONE, 4,4-DIMETHYL-	19.232	10	NJ
		l		İ

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

EL02-02-SED

Lab Name: Roy F. Weston, Inc. Work Order: 02501004001

Client:	BLACK	AND	DECKER	
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Number TICs found: <u>6</u>

Matrix:	SEDIMENT	Lab Sample ID:	9702L324-005
Sample wt/vol:	<u>1.10</u> (g/mL) <u>G</u>	Lab File ID:	_x022509
Level: (low/med)	LOW	Date Received:	02/20/97
% Moisture: not dec.	54	Date Analyzed:	02/25/97
Column: (pack/cap) <u>C2</u>	<u>AP</u>	Dilution Factor:	: 4.55

CONCENTRATION UNITS:

(ug/L or ug/Kg) <u>UG/KG</u>

1	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	1.	UNKNOWN	23 391	1000	===== .T
j	2.	UNKNOWN	23.696	700	1 J J
Ì	3.	C4-ALKYLBENZENE	23.765	800	JJ
	4.	UNKNOWN	24.119	700	J
	5.	UNKNOWN	24.365	1000	J
	6.	UNKNOWN	24.789	1000	J
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FORM 1 VOA-TIC

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET	
TENTATIVELY IDENTIFIED COMPOUNDS	
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>02</u>	EL03-02-SW
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>WATER</u>	Lab Sample ID: <u>9702L324-006</u>
Sample wt/vol: _ <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>q022414</u>
Level: (low/med) <u>LOW</u>	Date Received: 02/20/97
% Moisture: not dec	Date Analyzed: <u>02/24/97</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>1</u> (ug/I	ENTRATION UNITS: L or ug/Kg) <u>UG/L</u>

2-PENTANONE, 4,4-DIMETHYL- | 19.237 20

RT

EST. CONC.

Q

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NJ

COMPOUND NAME

CAS NUMBER

1. 590501

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FORM 1 VOA-TIC

12/88 Rev.

1E VOLATILE ORGANICS ANALYSIS SHI TENTATIVELY IDENTIFIED COMPO	CLIENT SAMPLE NO. EET DUNDS
Lab Name: <u>Roy F. Weston, Inc.</u> Work Orde:	EL03-02-SED
Client: BLACK AND DECKER	
Matrix: <u>SEDIMENT</u>	Lab Sample ID: <u>9702L324-007</u>
Sample wt/vol: <u>1.00</u> (g/mL) <u>G</u>	Lab File ID:
Level: (low/med) LOW	Date Received: 02/20/97
% Moisture: not dec. <u>90</u>	Date Analyzed: 02/25/97
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>5.00</u>
Number TICs found: <u>5</u>	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>

1			7.00		•	
	CAS NUMBER		RT =======	EST. CONC.	Q =====	l
ĺ	1.	UNKNOWN	22.835	4000	J	İ
	2.	UNKNOWN	23.386	7000	J	l
	3.	UNKNOWN	23.691	3000	J	ŀ
	4.	UNKNOWN	24.124	3000	J	l
	5.	UNKNOWN	24.370	4000	J	Ì
	·					İ

	lE		CLIENT SAMPLE NO.
VOLATILE	ORGANICS ANALYSIS SHEET		
TENTATI	VELY IDENTIFIED COMPOUNDS	· 1	
Lab Name: <u>Roy F. Wes</u>	ton, Inc. Work Order: 025	01004001	L01-02-SW
Client: <u>BLACK AND</u>	DECKER		
Matrix:	WATER	Lab Sample ID:	<u>9702L324-008</u>
Sample wt/vol:	<u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:	_q022415
Level: (low/med)	LOW	Date Received:	02/20/97
% Moisture: not dec.		Date Analyzed:	02/24/97
Column: (pack/cap) <u>C</u>	AP	Dilution Factor	: 1.00
Number TICa found	CONCE	NTRATION UNITS:	
ivaniber files tound:	<u> (ug/L</u>	or ug/Kg) <u>UG/L</u>	

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9.667

EST. CONC.

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COMPOUND NAME

METHYLACETATE

CAS NUMBER

1. 79209

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12/88 Rev.

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEE	et
TENTATIVELY IDENTIFIED COMPOU	JNDS
· · ·	WL01-02-SED
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order:	: <u>02501004001</u>
Client: <u>BLACK AND DECKER</u>	
Matrix: SEDIMENT	Lab Sample ID: 9702L324-009
Sample wt/vol: 4.80 (g/mL) G	Lab File ID: x022721
Level: (low/med) LOW	Date Received: 02/20/97
(,,,,	<u></u>
<pre>% Moisture: not dec 66</pre>	Date Analyzed: 02/28/97
	2000 11101/2001. <u>02/20/91</u>
Column: (nack/can) CAP	Dilution Factor: 1 04
	<u> </u>
C	CONCENTRATION UNITS .
Number TICs found: 8	$(\mu \alpha / L \circ r \mu \alpha / K \alpha) = U \alpha / K \alpha$
Number Tres Lound: <u>b</u>	(ug/1) or ug/ng/ <u>og/ng</u>

		1			ļ
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
=======================================		=======	=================	=====	l
1.	UNKNOWN	21.276	400	J	
2.	UNKNOWN	21.818	300	J	
3.	UNKNOWN	22.073	200	J	l
4.	UNKNOWN	22.142	100	J	l
5.	UNKNOWN	23.422	200	J	İ
6.	UNKNOWN	23.609	200	J	İ
7.	UNKNOWN	24.170	300	J	İ
8.	UNKNOWN	25.183	100	J	İ
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VOLATILE (1E ORGANICS ANALYSIS SHEET		CLIENT SAMPLE NO.
TENTATI	VELY IDENTIFIED COMPOUNDS	-	
Lab Name: <u>Roy F. West</u>	ton, Inc. Work Order: <u>025</u>	01004001	L01-02-SED DUP.
Client: <u>BLACK AND I</u>	DECKER		
Matrix:	SEDIMENT	Lab Sample ID:	<u>9702L324-010</u>
Sample wt/vol:	<u>1.20</u> (g/mL) <u>G</u>	Lab File ID:	<u>x022512</u>
Level: (low/med)	LOW	Date Received:	02/20/97
<pre>% Moisture: not dec.</pre>	69	Date Analyzed:	02/25/97
Column: (pack/cap) <u>C2</u>	AP	Dilution Factor	: <u>4.17</u>
	CONCE	NTRATION UNITS:	
Number TICs found:	<u>6</u> (ug/L	or ug/Kg) <u>UG/KG</u>	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	=======================================	=======	================================	=====
1.	UNKNOWN	20.867	400	J
2.	UNKNOWN	21.261	800	J
3.	UNKNOWN	21.792	700	J
4.	UNKNOWN	22.058	400	J
5.	UNKNOWN	23.396	700	JJ
6.	UNKNOWN	23.584	300	J

FORM 1 VOA-TIC

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET	
TENTATIVELY IDENTIFIED COMPOUNDS	5
	WL02-02-SW
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>02</u>	2501004001
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>WATER</u>	Lab Sample ID: <u>9702L324-011</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>q022416</u>
Level: (low/med) <u>LOW</u>	Date Received: <u>02/20/97</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: 02/24/97
	Dilution Fostor, 1 00
Column: (pack/cap) <u>CAP</u>	Diffuction factor: 1.00
CONC	TENTEDATION LINITES.
	$/I \sim \pi / K_{\rm e} > 10 / I$
Number Tics found: <u>0</u> (ug)	L OF ug/kg) UG/L

CAS NUMBER	COMPOUND NAME	 RT	EST. CONC.	Q
=======================================	=======================================	=======	======================================	=====
1.		l		
		I	l	

1E	
VOLATILE ORGANICS	ANALYSIS SHEET
TENTATIVELY IDE	NTIFIED COMPOUNDS

CLIENT SAMPLE NO.

WL02-02-SED

Lab Name: Roy F. Weston, Inc. Work Order: 02501004001

Client: <u>BLACK AND DECKER</u>	
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Number TICs found: <u>7</u>

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Matrix:	SEDIMENT	Lab Sample ID:	<u>9702L324-012</u>
Sample wt/vol:	<u>1.10</u> (g/mL) <u>G</u>	Lab File ID:	x022513
Level: (low/med)	LOW	Date Received:	<u>02/20/97</u>
% Moisture: not dec.	71	Date Analyzed:	02/26/97
Column: (pack/cap) <u>C</u>	AP	Dilution Factor	: 4.55

CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>____

CAS NUMBER	COMPOUND NAME	 RT	EST. CONC	0
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1.	UNKNOWN	21.264	2000	J
2.	CYCLOALKANE	21.796	1000	J
3.	UNKNOWN	22.061	1000	J
4.	UNKNOWN	22.829	1000	J
5.	UNKNOWN	23.390	2000	J
6.	UNKNOWN	23.587	1000	J
7.	UNKNOWN	24.128	1000	J

1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET	
TENTATIVELY IDENTIFIED COMPOUNDS	S
	WL03-02-SW
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>02</u>	2501004001
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>WATER</u>	Lab Sample ID: <u>9702L324-013</u>
Sample wt/vol: _ <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:
Level: (low/med) <u>LOW</u>	Date Received: <u>02/20/97</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: <u>02/24/97</u>
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
	CENTRATION UNITS:
Number files round: $\underline{0}$ (ug)	L OF ug/kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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	1.				
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VOLATILE (1E DRGANICS ANALYSIS SHEET		CLIENT SAMPLE NO.
TENTATIV	VELY IDENTIFIED COMPOUNDS		
Lab Name: <u>Roy F. West</u>	<u>con, Inc.</u> Work Order: <u>02</u>	501004001	L03-02-SED
Client: <u>BLACK AND I</u>	DECKER		
Matrix:	SEDIMENT	Lab Sample ID:	<u>9702L324-014</u>
Sample wt/vol:	<u>4.90</u> (g/mL) <u>G</u>	Lab File ID:	x022718
Level: (low/med)	LOW	Date Received:	02/20/97
% Moisture: not dec.	80	Date Analyzed:	02/27/97
Column: (pack/cap) <u>CA</u>	<u>1P</u>	Dilution Factor	: <u>1.02</u>
Number TICs found:	5 (ug/l	NTRATION UNITS: or ug/Kg) <u>UG/KG</u>	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		23 446	======================================	====
2.	UNKNOWN	23.633	20	!
3.	UNKNOWN	23.751	10	
4.	UNKNOWN	24.194	10	i i
5.	UNKNOWN	24.479	20	ÍÍ

	1E		CLIENT SAMPLE NO.
VOLATILE	ORGANICS ANALYSIS SHEET	-	
, IENIAI	IVELI IDENIIFIED COMPOUNDS		TRIP BLANK
Lab Name: <u>Roy F. We</u>	ston, Inc. Work Order: <u>02</u>	501004001	
Client: <u>BLACK AND</u>	DECKER		
Matrix:	WATER	Lab Sample ID:	<u>9702L324-015</u>
Sample wt/vol:	<u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:	<u>q022508</u>
Level: (low/med)	LOW	Date Received:	02/20/97
<pre>% Moisture: not dec</pre>		Date Analyzed:	02/25/97
Column: (pack/cap)	CAP	Dilution Factor	: <u>1.00</u>
Number TICs found:	CONCI (ug/1	ENTRATION UNITS: L or ug/Kg) <u>UG/L</u>	
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RT

EST. CONC.

Q

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COMPOUND NAME

CAS NUMBER

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1E VOLATILE ORGANICS ANALYSIS SHEET	CLIENT SAMPLE NO.
TENTATIVELY IDENTIFIED COMPOUNDS	
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>025</u>	VBLKMN 501004001
Client: BLACK AND DECKER	
Matrix: WATER	Lab Sample ID: <u>97LVG037-MB1</u>
Sample wt/vol: _ <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>q022405</u>
Level: (low/med) <u>LOW</u>	Date Received: 02/24/97
% Moisture: not dec	Date Analyzed: 02/24/97
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: _0 (ug/L	NTRATION UNITS: or ug/Kg) <u>UG/L</u>
CAS NUMBER COMPOUND NAME	RT EST. CONC. Q

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1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET	
TENTATIVELY IDENTIFIED COMPOUNDS	
	VBLKME
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>025</u>	01004001
Client: <u>BLACK AND DECKER</u>	
Matrix: WATER	Lab Sample ID: <u>97LVG038-MB1</u>
Sample wt/vol: _5.00 (g/mL) ML	Lab File ID:q022505
Level: (low/med) <u>LOW</u>	Date Received: <u>02/25/97</u>
<pre>% Moisture: not dec</pre>	Date Analyzed: 02/25/97
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>0</u> (ug/L	NTRATION UNITS: or ug/Kg) <u>UG/L</u>

RT EST. CONC.

COMPOUND NAME

CAS NUMBER

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	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET	
TENTATIVELY IDENTIFIED COMPOUNDS	
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>025</u>	VBLKMR 501004001
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>SOIL</u>	Lab Sample ID: <u>97LVX033-MB1</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>G</u>	Lab File ID: <u>x022504</u>
Level: (low/med) <u>LOW</u>	Date Received: 02/25/97
% Moisture: not dec. <u>0</u>	Date Analyzed: 02/25/97
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: <u>0</u> (ug/L	NTRATION UNITS: or ug/Kg) <u>UG/KG</u>
CAS NUMBER COMPOUND NAME	RT EST. CONC. Q

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1E VOLATILE ORGANICS ANALYSIS SHEET	CLIENT SAMPLE NO.		
TENTATIVELY IDENTIFIED COMPOUNDS			
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>029</u>	VBLKNB 501004001		
Client: BLACK AND DECKER			
Matrix: <u>SOIL</u>	Lab Sample ID: <u>97LVW999-MB1</u>		
Sample wt/vol: <u>4.00</u> (g/mL) <u>G</u>	Lab File ID: <u>W022707</u>		
Level: (low/med) <u>MED</u>	Date Received: <u>02/27/97</u>		
<pre>% Moisture: not dec0</pre>	Date Analyzed: <u>02/27/97</u>		
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>		
Number TICs found: 0 CONCENTRATION UNITS:			

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1E VOLATILE ORGANICS ANALYSIS SHEET	CLIENT SAMPLE NO.
TENTATIVELY IDENTIFIED COMPOUNDS	
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>025</u>	VBLKMY 01004001
Client: BLACK AND DECKER	
Matrix: <u>SOIL</u>	Lab Sample ID: <u>97LVX036-MB1</u>
Sample wt/vol: _ <u>5.00</u> (g/mL) <u>G</u>	Lab File ID: <u>x022717</u>
Level: (low/med) <u>LOW</u>	Date Received: <u>02/27/97</u>
% Moisture: not dec. <u>0</u>	Date Analyzed: 02/27/97
Column: (pack/cap) <u>CAP</u>	Dilution Factor: <u>1.00</u>
Number TICs found: 0 (ug/L	NTRATION UNITS: or ug/Kg) <u>UG/KG</u>
CAS NUMBER COMPOUND NAME	RT EST. CONC. Q

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1E	CLIENT SAMPLE NO.
VOLATILE ORGANICS ANALYSIS SHEET TENTATIVELY IDENTIFIED COMPOUNDS	VBLKMQ
Lab Name: <u>Roy F. Weston, Inc.</u> Work Order: <u>02501</u>	004001
Client: <u>BLACK AND DECKER</u>	
Matrix: <u>SOIL</u> L	ab Sample ID: <u>97LVX034-MB1</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>G</u> L	ab File ID: <u>x022608</u>
Level: (low/med) LOW D	ate Received: 02/26/97
% Moisture: not dec. <u>0</u>	ate Analyzed: <u>02/26/97</u>
Column: (pack/cap) <u>CAP</u> I	Dilution Factor: <u>1.00</u>
CONCENT	RATION UNITS:
Number TICs found: <u>0</u> (ug/L c	or ug/Kg) <u>UG/KG</u>
CAS NUMBER COMPOUND NAME	RT EST. CONC. Q

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

DATE RECEIVED: 02/20/97

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RFW LOT # :9702L324

CLIENT ID	RFW	#	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
EL01-02-SW	001		W	97LVG037	02/20/97	N/A	02/24/97
EL01-02-SW	001	MS	W	97LVG038	02/20/97	N/A	02/25/97
EL01-02-SW	001	MSD	W	97LVG038	02/20/97	N/A	02/25/97
EL01-02-SW DUP.	002		W	97LVG037	02/20/97	N/A	02/24/97
EL01-02-SED	003		SE	97LVX033	02/20/97	N/A	02/25/97
EL01-02-SED	003	N	1 SE	97LVW999	02/20/97	N/A	02/27/97
EL02-02-SW	004		W	97LVG037	02/20/97	N/A	02/24/97
EL02-02-SED	005		SE	97LVX033	02/20/97	N/A	02/25/97
EL03-02-SW	006		W	97LVG037	02/20/97	N/A	02/24/97
EL03-02-SED	007		SE	97LVX033	02/20/97	N/A	02/25/97
WL01-02-SW	008		W	97LVG037	02/20/97	N/A	02/24/97
WL01-02-SED	009		SE	97LVX036	02/20/97	N/A	02/28/97
WL01-02-SED DUP.	010		SE	97LVX033	02/20/97	N/A	02/25/97
WL02-02-SW	011		W	97LVG037	02/20/97	N/A	02/24/97
WL02-02-SED	012		SE	97LVX033	02/20/97	N/A	02/26/97
WL02-02-SED	012	R	l SE	97LVX034	02/20/97	N/A	02/26/97
WL03-02-SW	013		W	97LVG037	02/20/97	N/A	02/24/97
WL03-02-SED	014		SE	97LVX036	02/20/97	N/A	02/27/97
WL03-02-SED	014	MS	SE	97LVX033	02/20/97	N/A	02/26/97
WL03-02-SED	014	MSD .	SE	97LVX033	02/20/97	N/A	02/26/97
TRIP BLANK	015		W	97LVG038	02/20/97	N/A	02/25/97
AB QC:							
VBLKMN	MB1		W	97LVG037	N/A	N/A	02/24/97
VBLKME	MB1		W	97LVG038	N/A	N/A	02/25/97
VBLKME	MB1	BS	W	97LVG038	N/A	N/A	02/25/97
VBLKMR	MB1		S	97LVX033	N/A	N/A	02/25/97
VBLKMR	MB1	BS	S	97LVX033	N/A	N/A	02/26/97
VBLKNB	MB1		S	97LVW999	N/A	N/A	02/27/97
VBLKMY	MB1		S	97LVX036	N/A	N/A	02/27/97
VBLKMQ	MB1		S	97LVX034	N/A	N/A	02/26/97

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Client Cliff			Can 2/2	Refrige	erator #		77												<u></u>	
Est. Final Proj		ing Date 20 FEB 97		#/Type	Container	Liquid	0/6			_										
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BRUSH PILE TEST PIT SOIL AND GROUNDWATER ANALYTICAL DATA PACKAGE


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# : 9608L650 W.O. #: 02501-004-001-0000-00 Date Received: 08-15-96

GC/MS VOLATILE

The set of samples consisted of two (2) water samples and six (6) soil samples collected on 08-14-96.

The samples were analyzed according to criteria set forth in SW 846 Method 8240 for TCL Volatile target compounds on 08-19,23-96.

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 required holding time for analysis was met.
- 2. Non-target compounds were not detected in these samples.
- 3. All surrogate recoveries were within EPA QC limits.
- 4. Matrix spike analyses are associated with RFW lot 9608L555.
- 5. The method blanks contained the common contaminants Methylene Chloride and Acetone at levels less than 2x the CRQL.

unit leader J. Michael Taylor

For Vice President and Laboratory Manager Lionville Analytical Laboratory

9-11-96 Date

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mmz/voa/08-650v.cn

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 9 pages.





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.

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GLOSSARY OF VOA DATA

ABBREVIATIONS

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.

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Client: TP-96-2 001 SOIL 0.98 UG/K 99 94 103	Vo <u>BLAC</u> 2 30 30 36 37 38	latiles by <u>K AND DECI</u> TP-96-3 002 SOIL 1.0 UG/H 101	7 GC/I KER 3 2 2 04 KG	15, HSL Li Wo TP-96-4 003 SOIL	lst ork O	rder:_0250 TP-96-5 004) <u>1004</u>	Report Dat 001 Page: TP-96-6 005	:e: 09 <u>1a</u>	9/11/96 0 TP-96-	9:06 7
<u>Client:</u> TP-96-2 001 SOIL 0.98 UG/K 99 94 103	81.AC	K AND DEC TP-96-3 002 SOIL 1.0 UG/H	CER 3 2 2 04 (G	TP-96-4 003 SOIL	ork O	rder: 025(TP-96-5 004)1004	<u>001 Page</u> TP-96-6 005	<u>1a</u>	TP-96-	7
TP-96-2 001 SOIL 0.98 UG/K 99 94 103	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TP-96-3 002 SOIL 1.0 UG/H	3 2 04 <g< th=""><th>TP-96-4 003 SOIL</th><th>E I</th><th>TP-96-5 004</th><th>;</th><th>TP-96-6</th><th>;</th><th>TP-96-</th><th>7</th></g<>	TP-96-4 003 SOIL	E I	TP-96-5 004	;	TP-96-6	;	TP-96-	7
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*= Outside of EPA CLP QC limits.

RFW Bann Number: 9	6081650 Cli	ent: BLACK A	AND DECKER		Work O	rder	: 0250100400	1 Page	1b			
	Cust ID:	TP-96-2	TP-96-3		TP-96-4		TP-96-5	TP	-96-6	TP-96-7	1	
	RFW#:	001	002		003		004		005	006		
Toluene		6 U	6	U	6	U	6 Ŭ			6	<u> </u>	
Chlorobenzene		6 U	6	U	6	U	6 U	r	6 U	6	Ū	
Ethylbenzene		6 U	6	U	6	U	6 U	'	6 U	6	υĊ	
Styrene		6 U	6	U	6	U	6 0	ſ	6 U	6	υ	
Xylene (total)		6 U	6	U	6	U	6 U	r	6 U	6	Ū	
A 0.4.11 C 200 0												

*= Outside of EPA CLP QC limits.

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		Roy F. Weston, Inc Lionville Laboratory												
RFW Batch Number: 9608L650		<u>Client:</u>	BLA	ACK AND DECI	<u>)100</u>	Report Date: 09/11/96 09:06 04001 Page: 2a								
	Cust ID:	TP-96-6	5	TRIP BLANI	ĸ	VBLKDX		VBLKCK		VBLKCJ				
Sample	RFW#:	007	7	008	3	96LVW171-M	1 B1	96LVW166-1	(B 1	96LVQ082-1	(.)			
Information	Matrix:	WATER		WATER	SOIL		SOIL		WATER	C)				
	D.F.:	1.0	00	1.0	1.0	00	1.0	00	1.0	00	0			
	Units:		UG/L		<u>.</u>	UG/K	G	UG/H	G	UG/I	-			
	Toluene-d8	104	¥	105	¥	102	ş	98	8	109	*	····		
Surrogate Bromo:	fluorobenzene	106	ક	105	ક	96	¥	88	¥	110	¥			
Recovery 1,2-Dich	loroethane-d4	101	ह - २१	102	የ	100	*	97	8	100	8			
Chloromethane		 10	דו== ת	.======================================	==I1 U	=======================================	±1=: ∏	=======================================	=£1: TT	=======================================	=f1	=======f1		
Bromomethane		10	U	. 10	Ū	10	ц П	10	11	10				
Vinyl Chloride	· · · · · · · · · · · · · · · · · · ·	10	U	10	Ū	10	т. П	10	11	10	11			
Chloroethane		10	Ū	10	Ū	10	π	10	11	10				
Methylene Chloride			В		в	-0	U	10	.т	10	U T			
Acetone		10	Ū	10	- U	10		5	.т	*	J			
Carbon Disulfide		5	Ū		n	5	TT	5		2	J 17			
1,1-Dichloroethene	·····	5	Ū	5	U U	5	TT U	5	11	5				
1,1-Dichloroethane		- 5	Ū	5	Ū	5	тт ТТ	5	11	5	11			
1,2-Dichloroethene (total)	5	Ū	5	U	5	TT U	5	11	5				
Chloroform	·	- 5	Ū	5	U U	5	11	5	11	5	11			
1,2-Dichloroethane	······································	. 5	Ū	- 5	Ū	5	π	5	11	5	17			
2-Butanone		10	Ū	10	Ū	10	U U	10	11	5	U 17			
1,1,1-Trichloroethan	e	5	Ū		Ū	5	11	10	11	10				
Carbon Tetrachloride		- 5	Ū	5	U	5	π	5		5				
Vinyl Acetate		10	Ū	10	Ū	10	ц ц	10	11	10	11			
Bromodichloromethane		5	U	5	Ū	-•	U	±0 5	11	10				
1,2-Dichloropropane		5	U	5	U	5	Ū	5	TT U	5	11			
cis-1,3-Dichloroprope	ene	5	U	5	Ū	5	U	5	π	5	11			
Trichloroethene		5	U	5	Ū	5	IJ	5	π	5	11			
Dibromochloromethane		5	U	5	Ū	- 5	U	5	π	5				
1,1,2-Trichloroethan	e	5	U	5	Ū	5	U	5	т П	5	11	»•		
Benzene		5	U	5	Ū	5	Ū	5	11	5	11			
Trans-1, 3-Dichloropro	opene	5	Ū	- 5	Ū	5	TT I	5	11	5	11			
Bromoform		5	Ū	5	Ū	5	υ	5	π	5	т т			
4-Methyl-2-pentanone		10	Ū	10	Ū	10	ц ц	10	т т	5 10	т т			
2-Hexanone	······································	10	Ū	10	Ū	10	זז	10 110	11	10	U 17			
Tetrachloroethene		5	Ū		Ū	±0 5	л П	10	т ТТ	E 10	U 11			
1,1,2,2-Tetrachloroet	thane	5	Ū	5	Ū	5	Ū	5	IJ	5	о 11			
*= Outside of EPA CL	P QC limits.			-		5	-	5	2	J	0			

RFW Banh Number: 960	8L650 Cli	ent: BLAC	CK J	AND DE	CKER		Work C	orde	r. 02501004	1001	Dage 2	h	
	Cust ID:	TP-96-6	5	TRIP	BLANK		VBLKDX		VBLKCK	1001	VBLKCJ	Ð	
	RFW#:	007			008		96LVW171-M	B 1	96LVW166-1	6 B1	96LVQ082-	MB1	
Toluene		5	U		5	U		U	5	U	5		
Chlorobenzene		5	U		5	U	5	U	5	Ū	5	Ū	1
Ethylbenzene		5	U		5	U	5	U	5	U	. 5	U U	Ċ
Styrene		5	U		5	U	5	U	5	Ū	5	υ	\$
Xylene (total) *= Outside of EPA CLP	OC limits.	5	U		5	U	5	U	5	U	5	U	

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

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DATE RECEIVED:	08/15/96			:	RFW LOT # :	96081650
CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
· · ·					- <u></u> -	<u> </u>
TP-96-2	001	S	96LVW171	08/14/96	N/A	08/23/96
TP-96-3	002	S	96LVW171	08/14/96	N/A	08/23/96
TP-96-4	003	S	96LVW171	08/14/96	N/A	08/23/96
TP-96-5	004	S	96LVW171	08/14/96	N/A	08/23/96
TP-96-6	005	S	96LVW166	08/14/96	N/A	08/19/96
TP-96-7	006	S	96LVW166	08/14/96	N/A	08/19/96
TP-96-6	007	W	96LVQ082	08/14/96	N/A	08/19/96
TRIP BLANK	008	W	96LVQ082	08/14/96	N/A	08/19/96
LAB QC:						
VBLKDX	MB1	S	96LVW171	N/A	N/A	08/23/96
VBLKCK	MB1	S	96LVW166	N/A	N/A	08/19/96
VBLKCJ	MB1	W	96LVQ082	N/A	N/A	08/19/96

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Est. Final Proj	. Samp	ling Date					#/Typ	e Con	tainer	Liquid	26				2	1	†	 	1			┢───╁		-+	
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Project Conta	ct/Phon	e CE	eq F b	SILSK	X7	293	Volu	ne		Solid	40	<u>+</u>			444		<u>pr</u>	 	 			 	$ \rightarrow $		
AD Project Ma	an project Manager Dycarta Drocks					/	Pres	ervativ	85		1.77				Ha		<u>+</u>	┠──	<u> </u>			┢──╉	-+		
Data Realid	Data Bacid TILLA Data Data Bacid State					ANA	LYSES		-	<u>f</u>		ANIC		J			INC	RG							
Account #	Account #BLACK + DOCK					REQI	JESTE	0 -		٩ ٩	BNA	Pest/ PCB	Herb	8			Metal	N V V							
MATRIX CODES:					Ma	itrix						·		+	W	STO	N Anal	ytics	Use O	niy	+	<u></u>			
8 - Soil	Lab ID		Client ID/De	escription	QC Chosen		Matrix		ate	Time	#														
SE - Sediment SO - Solid						(1)			lected	Collected	Ë														
SL - Sludge W - Water	m/	TD	-91	<u> </u>		MSD				1020	10						ļ								
O - Oil A - Air	1 2	TD	-96-	2			<u> </u>	-181	ider	1000	<u>۲</u>	╂───			<u> </u>	<u> </u>	 								
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DL - Drum	4		90	1 C					 	X	μ]				 			<u> </u>						
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