U.S. Army Corps of Engineers
New England District

1995-1996 GROUNDWATER MONITORING REPORT

GROUNDWATER MONITORING PROGRAM
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

PREPARED UNDER:

CONTRACT NO. DACA33-91-D-0006
DELIVERY ORDER NO. 28

JANUARY 1997

ABB Environmental Services, Inc.

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DERP PROJECT NO. DO1MA000600

Prepared for:

Department of the Army
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2.0 PROJECT DESCRIPTION

2.1 INTRODUCTION

This 1995-1996 Groundwater Monitoring Report was prepared by ABB Environmental Services, Inc. (ABB-ES) under Contract Number DACA33-91-D-0006 for the U.S. Army Corps of Engineers, New England Division (USACE-NED). The services conducted by ABB-ES to support this report are described in the *Scope of Work for Groundwater Monitoring Program at Former Westover Air Force Base Sites, Chicopee, Massachusetts, Delivery Order No. 28,* dated December 2, 1993, revised December 9, 1993, and further revised December 29, 1993. The work described under this Scope of Work (SOW) falls under the Defense Environmental Restoration Program (DERP) Project No. DO1MA000600. The project is being conducted under the direction of Mr. Gary Lacroix, Engineering Manager at the USACE-NED, 424 Trapelo Road, Waltham, Massachusetts, 02254-9149.

This 1995-1996 Groundwater Monitoring Report was completed to fulfill the requirements in the SOW and the Chemical Data Acquisition Plan (CDAP) prepared by ABB-ES (ABB-ES, 1994). The work completed in the 1995 and 1996 sampling rounds reflects revisions to the SOW provided to ABB-ES by the USACE-NED (Lacroix, personal comm., 1996) and in *Sampling and Analysis Plan, Completion of Response Action Outcome (RAO) Statements and Release Abatement Measure (RAM) Plans,* Former Westover AFB Sites, Chicopee, Massachusetts (ABB-ES, 1996). These RAO statements and RAM plans are being conducted in accordance with the Massachusetts Contingency Plan (MCP) 310 Code of Massachusetts Regulations (CMR) 40.0000 for Release Tracking Numbers 1-0299 and 1-1011 and filed with the Massachusetts Department of Environmental Protection (MADEP).

Chemical contamination resulting from Department of Defense (DOD) activities exists on the former Westover Air Force Base (AFB) at six areas where underground jet fuel storage tanks and piping were located. The objectives of the Groundwater Monitoring Program are to establish an up-to-date database containing information on the extent of groundwater contamination at the six sites and to track the migration of the groundwater plumes over a three-year period (1994-1996). The purposes of this 1995-1996

Groundwater Monitoring Report are to summarize and compare the results of two rounds of groundwater sampling and make recommendations for any revisions to the monitoring program. This report includes a monitoring well location map, interpretive groundwater elevation contours, and maps of groundwater contaminant contours. Appended to this report are groundwater monitoring data from Round I (July, 1995) as Appendix A and groundwater monitoring data from Round II (July, 1996) as Appendix B. This report compliments the "1994 Yearly Groundwater Monitoring Report" prepared previously by ABB-ES (ABB-ES, 1995b).

2.2 SITE DESCRIPTION

The site is located in an industrial park (Westover Metropolitan Development Corporation's Airpark-West) in the southwestern portion of the former Westover AFB property in Chicopee, Massachusetts (Figure 2-1). The site covers approximately 200 acres in Airpark-West and includes former base structures constructed prior to 1974, undeveloped land, and commercial and industrial facilities constructed since 1974. The site is bounded by Westover Metropolitan Airport facilities to the south and southeast, an active portion of Westover AFB to the east and north; and a mixed residential and commercial neighborhood to the northwest and west.

The site, located on a relatively flat area of land is at an approximate elevation of 240 feet above mean sea level (MSL). The geology of the site consists of approximately 100 feet of fine-to-coarse sands overlying glacial till and bedrock. The depth to groundwater measured at the site ranges from approximately 15 to 25 feet below ground surface (bgs).

2.3 SUMMARY OF PAST WORK

Information presented in this subsection is based on the following documents: USACE-NED SOW (1993); the *Final Phase II Investigation Report, Former Westover Air Force Base, Chicopee, Massachusetts, Site No. 1-0299* (GZA, 1994); the *Final Phase I Site Investigation Report Lonczak Drive Study Area* (ABB-ES, 1995a); *1994 Yearly Groundwater Monitoring Report, Groundwater Monitoring Program, Former Westover Air Force Base, Chicopee, Massachusetts* (ABB-ES, 1995b); the USACE-NED

SOW (1995); and, the *Draft Data Summary Report, Pumphouse No. 2 Site and Lonczak Drive Area* (ABB-ES, 1997).

Past environmental investigations conducted in the vicinity of the site were completed under the MCP by GZA GeoEnvironmental, Inc. (GZA), Stone and Webster Environmental Technology and Services (SWETS), and ABB-ES, under contract with the USACE-NED.

The initial environmental investigations at the site were performed by GZA from 1988 to 1994. The investigations consisted primarily of monitoring well installations and groundwater monitoring, with minor soil sampling. The intent of the GZA investigations was to determine the extent of groundwater contamination that resulted from leaking underground jet fuel tanks and lines. GZA identified five main areas of contamination: Former Pumphouse Areas No. 2, 3, and 6, Former Defueling Area No. 2; and the Lonczak Drive site. Pumphouse No. 1, although part of the Groundwater Monitoring Program, was not shown to be a source of significant groundwater contamination. Continued groundwater monitoring was recommended for all six of the sites.

Groundwater monitoring (designated as 1994 Rounds I and II) completed by GZA and ABB-ES included an assessment of groundwater flow conditions and the nature and distribution of contamination (GZA, 1994; ABB-ES, 1995b). The groundwater monitoring program included sampling of 54 monitoring wells for laboratory analysis for VOCs and SVOCs; field measurement of pH, specific conductivity, temperature, and dissolved oxygen; and measurement of water levels and, where present, floating fuel product thicknesses. Based on these data, the following conclusions were made (ABB-ES, 1995b):

Groundwater flow directions near the water table are influenced by a groundwater flow divide. The groundwater flow divide apparently does not extend to depth in the aquifer, however, and groundwater flow and contaminant plume migration directions from the five sites are generally to the east and southeast.

- Downward hydraulic gradients are present throughout the area investigated, and are greater in magnitude than horizontal hydraulic gradients. These downward

gradients cause groundwater contamination to migrate downward as well as laterally in the aquifer.

- 1994 Round I and Round II laboratory analytical data show that groundwater contamination primarily consists of the fuel related compounds, benzene, toluene, ethylbenzene, and xylenes (BTEX), 2-methylnaphthalene, and naphthalene. Phenols and hydrocarbon tentatively identified compounds (TICs) are also present. Comparison of the results between rounds shows variability occurs in the locations of maximum concentrations for each site area.

- Floating fuel product (JP-4) was detected in at least one well per sampling round at the site of the former Pumphouse No. 2 (WMW-202) and in the Lonczak Drive Study Area (WMW-704); the greatest thickness (0.88 feet) of fuel product was detected in WMW-704 in April 1994 during the Lonczak Drive Site Investigation.

- Low dissolved oxygen associated with BTEX contaminated groundwater may indicate active biological degradation of fuel components is occurring.

- Comparison of 1994 groundwater monitoring data to MCP GW-3 standards in effect at that time show no exceedances.

In 1994, ABB-ES performed source area (soil and groundwater) investigation of the Lonczak Drive Area (ABB-ES, 1995a). The purpose of this investigation was to evaluate the source and distribution of soil and groundwater contamination at the site. Field investigative techniques included TerraProbe^{SM} soil sampling, cone penetrometer testing and groundwater sampling, and monitoring well groundwater sampling and field gas chromatography and off-site laboratory analysis of samples. A report detailing the results of the investigation at the Lonczak Drive Site, titled *Phase I Site Investigation Report, Lonczak Drive Study Area, Former Westover Air Force Base, Chicopee, Massachusetts* (ABB-ES, 1995a), was completed in January 1995. The report presents the results of the field program, and assesses the nature and distribution of soil and groundwater fuel contamination thought to originate from subsurface fuel pipelines.

In 1995, the USACE-NED prepared a SOW for completion of RAO statements and RAM Plans for the former Westover Air Force Base sites (USACE NED, 1995). The SOW

identified the rationale for RAO statements to be prepared for the Pumphouse Nos. 1, 3, and 6 sites, and for the Defueling Area No. 2 site, and for RAM Plans to be prepared for the Pumphouse No. 2 site and the Lonczak Drive Area. The SOW detailed soil and groundwater data collection requirements to complete the RAO statements and RAM plans, including installation of additional monitoring wells.

In August 1995, ABB-ES installed a SWAP II™ passive fuel product recovery device in monitoring well MWM-704 to better determine the availability of free phase product at the Lonczak Drive Area. The SWAP II™ uses a hydrophobic filter which absorbs fuel product but not water. The recovered product is captured in a container within the well for monitoring and disposal. Following the installation of the SWAP™ device by ABB-ES, NED staff and their site personnel monitored the device for free product and emptied and disposed of the free product as necessary. Observational notes by the NED staff and site personnel regarding product thickness within the recovery chamber are presented in Appendix D of this report for the period of November 17, 1995 to August 25, 1997.

In 1996, ABB-ES and SWETS performed the investigations of the Lonczak Drive Area and Pumphouse No. 2 (ABB-ES, 1997). The purpose of the investigation was to fill data gaps and collect design parameters for the implementation of RAM Plans as identified in the USACE NED SOW. Field investigative techniques included TerraProbe^{SM} soil sampling, soil gas sampling, screened auger groundwater sampling, and monitoring well groundwater sampling with field gas chromatography and laboratory analysis. A Soil Vapor Extraction/Air Sparging (SVE/AS) pilot test was also performed. A report detailing the results of the investigation titled *Draft Data Summary Report, Pumphouse No. 2 and Lonczak Drive Area, Former Westover Air Force Base, Chicopee, Massachusetts*, was completed in December 1996 (ABB-ES, 1997). The report presents the results of the field program, and assesses the nature and distribution of soil and groundwater fuel contamination at the two areas. The pilot test concluded that site soil and contaminants were well suited for abatement by SVE/AS.

As part of the study, three source area water table monitoring wells were installed at Pumphouse No. 2 and nine monitoring wells (three source area water table wells and six downgradient wells) were installed at and downgradient of the Lonczak Drive Area. Data from these new wells and nine additional existing wells are presented with 1996 Round II groundwater monitoring data (Appendix B). The report recommended a RAM be

prepared for the Lonczak Drive Area due to the presence of soil contamination exceeding MCP soil standards and continued detection of floating product.

During this concurrent investigation, fuel product measurements were performed on two separate dates in addition to the July 1996 groundwater sampling event (ABB-ES, 1997). The SVE/AS pilot test was performed at the Lonczak Drive Area between July 29 and August 1, 1996. At the end of the SVE/AS test, product measurements were 1.5 feet in MWM-709; 2.7 feet in MWM-P-1D; and 1.4 feet in MWM-P-3D. Measurements were performed in December 1996 at the Lonczak Drive Area and at Pumphouse No. 2; product measurements were 1.46 feet in WMW-709; 0.25 feet in WMW-710; 1.04 feet in piezometer P-1D; 1.10 feet in piezometer P-3D; and 0.03 feet in an SVE shallow injection well.

3.0 1995-1996 GROUNDWATER MONITORING PROGRAM

The following is a summary of the 1995-1996 Groundwater Monitoring Program. Two rounds of samples were collected; Round I was collected in July 1995 and Round II was collected in July 1996. The locations of 69 monitoring wells (57 prior to 1996 and 12 new wells installed in 1996) at the former Westover AFB are shown in Figure 3-1. The 1995 Round I and 1996 Round II laboratory analytical programs are summarized in Table 3-1. Note that based on instructions from the USACE-NED, ABB-ES delayed the 1995 Round I from its original scheduled timeframe of March 1995 to July 1995; similarly, Round II originally scheduled for August 1995 was delayed to July 1996. The July 1996 sampling round was timed to include data from the 12 new monitoring wells installed under the investigations at Pumphouse No. 2 and the Lonczak Drive Area (ABB-ES, 1997).

3.1 1995 ROUND I SAMPLING PROGRAM

The 1995 Round I groundwater sampling event consisted of sampling 53 monitoring wells from the six former Westover AFB sites. During this program, four wells planned for sampling in the CDAP (WMW-304, WMW-308I, WMW-408I, and WMW-509D) were found to have been damaged or destroyed. These former well locations are indicated in Figure 3-1. The sampling program included field measurements of groundwater for pH, specific conductivity, and temperature; water level elevation measurements; and off-site laboratory analysis of groundwater samples for volatile organic compounds (VOCs) (U.S. Environmental Protection Agency [USEPA] Method 8240) (53 wells) and semivolatile organic compounds (SVOCs) (USEPA Method 8270) (29 wells) (see Table 3-1). Round I sampling included collection of six duplicate samples, four rinseate and five trip blank samples for quality control, and six split samples collected for quality assurance.

3.1.1 Groundwater Elevation Data

Groundwater elevation data from July 1995 are included in Table 3-2. A water table elevation contour map is included as Figure 3-2. Figure 3-2 shows a groundwater table divide, oriented roughly northeast-southwest that crosses the site at the former location of Pumphouse No. 2 and north of Defueling Area No. 2. Groundwater east of the divide is

interpreted to flow southeast with probable discharge to Cooley Brook, located approximately 4,000 feet from the divide. Groundwater west of this divide is interpreted to flow in a westerly to northwesterly direction, possibly discharging to unnamed tributary streams located approximately 3,000 feet west of the former Westover AFB sites. The locations of these tributaries and Cooley Brook are shown on Figure 2-1. These unnamed tributaries feed the Chicopee River and then the Connecticut River (GZA, 1994).

Horizontal hydraulic gradients were calculated from the July 1995 water table elevation data for shallow (water table) and deep monitoring well couplets. Horizontal gradients were calculated for shallow well pairs WMW-204/WMW-203; WMW-302/WMW-305; WMW-307/WMW-302; WMW-702/WMW-704; WMW-203/WMW-707; WMW-406/WMW-410D, WMW-204/WMW-210; and WMW-503/WMW-505 (see the following table). Horizontal gradients shown in Figure 3-2 generally range between 0.0002 and 0.028 feet/foot with most gradients less than 0.007 feet/feet. The highest gradient (0.028 feet/foot) was observed in the vicinity of former Pumphouse No. 3 (between wells WMW-307 and WMW-302). This higher gradient is interpreted to reflect a decrease in transmissivity in this area (i.e., decreasing aquifer thickness or decreasing hydraulic conductivity).

Monitoring Well Pair	Distance Between Wells (feet)	Piezometric Difference (feet) (July 1995)	Horizontal Hydraulic Gradient (feet/foot)
WMW-204/WMW-203	180	0.34	0.002
WMW-302/WMW-305	256	0.66	0.003
WMW-307/WMW-302	170	4.78	0.028
WMW-702/WMW-704	240	3.74	0.016

Monitoring Well Pair	Distance Between Wells (feet)	Piezometric Difference (feet) (July 1995)	Horizontal Hydraulic Gradient (feet/foot)
WMW-203/WMW-707	770	5.39	0.007
WMW-406/WMW-410(I)	300	1.58	0.005
WMW-204/WMW-210	200	0.04	0.0002
WMW-503/WMW-505	170	0.68	0.004

An interpretive water level contour map was prepared by ABB-ES from the July 1995 water level data for wells screened between 200 and 140 feet MSL, designated as deep groundwater (see Figure 3-3). Figure 3-3 shows that the shallow water table divide does not extend to depth in the aquifer at the sites, but may exist further to the north and west. Data from 10 monitoring wells were used to draw the interpretive contours. Horizontal hydraulic gradients for the well pairs WMW-506I/WMW-5D, WMW-206I/WMW-213I, and WMW-212I/2D are between 0.004 and 0.007 feet per foot as shown in the following table. These gradients are, in general, within the range of those calculated for water table wells as discussed above.

Monitoring Well Pair	Distance Between Wells (feet)	Piezometric Difference (feet) (July 1995)	Horizontal Hydraulic Gradient (feet/foot)
WMW-506I/WMW-5D	1140	8.44	0.007
WMW-206I/WMW-213I	550	4.05	0.007
WMW-212I/WMW-2D	480	1.86	0.004

A higher piezometric head was noted in the shallow well relative to the intermediate well in the five shallow/intermediate well clusters monitored in 1995 Round I as tabulated below. From this data and the difference between the well screen elevations, vertical hydraulic gradients are estimated:

Monitoring Well Pair	Difference in Well Screen Elevations (feet)	Piezometric Difference (feet) (July 1995)	Vertical Hydraulic Gradient (feet/foot)
WMW-206/WMW-206I	37	2.04	-0.055
WMW-208/WMW-208I	35	5.16	-0.147
WMW-305/WMW-305I	4.9	0.15	-0.031
WMW-406/WMW-406I	14.3	0.15	-0.010
WMW-506/WMW-506I	21.3	0.77	-0.036

All vertical hydraulic gradients are downward. The gradients are also greater in absolute value than horizontal hydraulic gradients. The average vertical hydraulic gradient is approximately -0.06 feet per foot, that is, groundwater moves approximately six feet downward from the water table for every 100 feet of horizontal direction traveled.

3.1.2 Groundwater Analytical Results

Samples were collected as described in the CDAP (ABB-ES, 1994). The sample collection and analysis program is summarized in Table 3-1; fifty-three samples were collected for analysis for VOCs and 29 samples were collected for semivolatile organic compounds (SVOCs). During groundwater sampling, pH, specific conductance, dissolved oxygen (DO) content, and temperature were measured; results for these parameters are presented in Table 3-3. Laboratory analytical results for VOC and SVOC analyses are summarized in Tables 3-4 and 3-5; these tables also include previous laboratory analytical results, results from the Lonczak Drive Study Area Investigation, and results from 1996 sampling. Results of pH, specific conductance, DO, and temperature field screening are further summarized by site area as follows:

Area	pH Range	Specific Conductance Range (µmhos/cm)	Dissolved Oxygen (mg/L)	Temperature Range (degrees C)
Pumphouse No. 1	5.3-6.2	342-400	0.7-7.3	12.5-13.1
Pumphouse No. 2	5.0-6.6	85-640	0.2-8.6	12.0-18.6
Pumphouse No. 3	5.7-6.6	70-194	0.7-5.5	11.9-14.6
Pumphouse No. 6	5.8-6.6	28-486	0.4-7.9	9.5-16.4
Defueling Area No. 2	5.8-6.4	48-258	0.6-7.7	13.1-15.5
Lonczak Drive Area	5.6-6.1	54-206	0.4-7.1	12.4-14.3

Monitoring wells were surveyed with an interface probe to detect the possible presence and thickness of light non-aqueous phase liquid (LNAPL) fuel product (i.e., free product) on the water table during sampling. Free Product was not detected in the wells during Round I.

1995 Round I samples collected by ABB-ES were analyzed for VOCs and SVOCs by Pace Incorporated Environmental Laboratories of Westbrook, Maine. Quality assurance (QA) and quality control (QC) samples for inter- and intra-laboratory comparison were collected concurrently with these groundwater samples. The five QA samples collected were analyzed at the USACE NED Environmental Laboratory in Hubbardston, Massachusetts.

Laboratory data for the 1995 Round I samples was reviewed by ABB-ES following USEPA-Contract Laboratory Program (CLP) National Functional Guidelines (see validation memoranda included in Appendix A-6). The review resulted in qualification and editing of data where appropriate due to: (1) trip, rinseate, or laboratory method blank contamination; (2) matrix spike/matrix spike duplicate (MS/MSD) recovery criteria not being met; (3) relative percent difference (RPD) criteria not being met for some duplicate samples; (4) holding time exceedances of VOC analysis in one sample; and (5) low SVOC surrogate recoveries in two samples. Review findings are typical of laboratory performance and overall, laboratory results are useable as qualified. Of particular note is the presence of acetone and methylene chloride in QC samples indicating these

compounds are present as laboratory artifacts. Although sample data were corrected where appropriate for blank contamination by these two VOCs, some samples did contain concentrations of these VOCs above calculated blank action levels.

VOC and SVOC contamination detected in the 1995 Round I samples from the former Westover sites are summarized from Table 3-4 and Table 3-5 as follows:

Pumphouse No. 1. Two wells (WMW-101 and WMW-102) were sampled at Pumphouse No. 1. The VOCs ethylbenzene; toluene; and xylenes were detected in the 1995 sample from WMW-101 (see Table 3-4). Results for WMW-101 were significantly greater during this event than in previous Pumphouse No. 1 sampling events. No SVOC analyses were performed for this area during 1995 Round I.

Pumphouse No. 2. Eighteen wells (WMW-201 through WMW-214I, WMW-601, and WMW-2D; see Table 3-1) were sampled at Pumphouse No. 2. VOCs detected in shallow and intermediate wells in 1995 Round I groundwater samples from the former Pumphouse No. 2 were BTEX (see Table 3-4). The VOCs trichloroethene (TCE) and tetrachloroethene were detected in the deep monitoring well WMW-2D located southwest of the former pumphouse area. The VOCs methylene chloride and acetone were detected sporadically. SVOCs detected in 1995 Round I groundwater samples were acenaphthene; anthracene; bis(2-ethylhexyl)phthalate; dibenzofuran; 2,4-dimethylphenol; fluoranthene; fluorene; 2-methylnaphthalene; naphthalene; 2-methylphenol; 4-methylphenol; phenanthrene; and pyrene (see Table 3-5). The highest concentrations of VOCs and SVOCs were reported in WMW-202.

Pumphouse No. 3. Nine wells (WMW-301 through WMW-303, WMW-304A through WMW-307, and WMW-5D; see Table 3-1) were sampled at Pumphouse No. 3. VOCs detected in 1995 Round I groundwater samples from shallow and intermediate wells at the former Pumphouse No. 3 were ethylbenzene and xylenes (see Table 3-4). The VOCs ethylbenzene and trichloroethene were also detected in the deep well WMW-5D located east of the pumphouse area. The highest concentrations of VOCs were reported in WMW-301 and WMW-302. SVOCs reported in 1995 Round I samples were 2,4-dimethylphenol; 4-methylphenol; 2-methylnaphthalene; bis(2-ethylhexyl)phthalate; and naphthalene (see Table 3-5). The highest concentrations of SVOCs in shallow wells was

reported in WMW-303. SVOCs were also detected (at greater concentrations) in deep well WMW-5D.

Pumphouse No. 6. Ten wells (WMW-401 through WMW-407I, WMW-409I, and WMW-410I; see Table 3-1) were sampled at Pumphouse No. 6. VOCs detected in 1995 Round I groundwater samples from the former Pumphouse No. 6 were acetone (in one sample); benzene (in one sample); ethylbenzene; toluene; and xylenes (see Table 3-4). The highest concentrations of VOCs were reported in shallow well WMW-402. SVOCs reported in Round I samples are acenaphthene; anthracene; bis(2-ethylhexyl)phthalate; 2,4-dichlorophenol; dibenzofuran; fluorene; 4-methylphenol; phenanthrene; 2-methylnaphthalene; and naphthalene. The highest concentrations were in WMW-406I.

Defueling Area No. 2. Ten wells (WMW-501 through WMW-508 and WMW-510I; see Table 3-1) were sampled at Defueling Area No. 2. VOCs detected in 1995 Round I groundwater samples were acetone and BTEX (see Table 3-4). SVOCs reported in 1995 Round I samples were bis(2-ethylhexyl)phthalate; 2-methylphenol; phenol; fluoranthene; 2-methylnaphthalene; naphthalene; 4-methylphenol; and 2,4-dimethylphenol. The highest concentrations of VOCs and SVOCs were in WMW-503.

Lonczak Drive Area. Four wells (WMW-701, WMW-702, WMW-704, and WMW-707; see Table 3-1) were sampled at the Lonczak Drive Area. VOCs detected in these wells were BTEX. SVOCs reported in Lonczak Drive Area samples were bis(2-ethylhexyl)-phthalate; dimethylphthalate; dibenzofuran; di-n-octylphthalate; fluorene; phenol; 2-methylnaphthalene; naphthalene, 2-methylphenol; and 4-methylphenol. The highest concentrations of VOCs and SVOCs were in WMW-704 and its duplicate.

3.2 1996 Round II Sampling Program

The 1996 groundwater sampling event was conducted by ABB-ES and included sampling of 18 monitoring wells. Twelve additional monitoring wells were sampled concurrently during investigations at Pumphouse No. 2 and the Lonczak Drive Area. The total number of monitoring wells sampled in 1996 Round II was 30 wells from three of the five areas of groundwater contamination, Pumphouse Nos. 2 and 3, and the Lonczak Drive Area. Sampling at Pumphouse No. 3 was limited to two wells in the area between the locations

of the Lonczak Drive Area and Pumphouse No. 3 groundwater plumes and was not performed to characterize the plumes. In addition, water levels were measured at 54 monitoring wells at the site. The 1996 Round II sampling included field measurement of groundwater pH, specific conductivity, dissolved oxygen, temperature, Eh, and off-site laboratory analysis of groundwater samples for VOCs (USEPA Method 8260) (see Table 3-1) in addition to water level measurements. The 12 additional wells sampled at Pumphouse No. 2 and the Lonczak Drive Area were also analyzed for SVOCs (USEPA Method 8270) and other parameters (ABB-ES, 1997). The other parameters for which samples were analyzed include extractable petroleum hydrocarbons (EPH), volatile petroleum hydrocarbons (VPH), total and dissolved metals, alkalinity, chloride, nitrate, nitrite, nitrogen, phosphorous, and sulfate. Please refer to the Draft Data Summary Report (ABB-ES, 1997) for these additional analytical data.

3.2.1 Groundwater Elevation Data

Groundwater elevation data from July 1996 is included in Table 3-2. A water table elevation contour map prepared by ABB-ES is included as Figure 3-4. This interpretive groundwater table elevation map is similar to the 1995 results (see Figure 3-2) as Figure 3-4 also shows a groundwater table divide oriented roughly northeast-southwest, crossing through the location of Pumphouse No. 2 and north of Defueling Area No. 2.

Horizontal hydraulic gradients were calculated from the July 1996 water table elevation data for shallow (water table) and deep monitoring well couplets. Horizontal gradients calculated from the July 1996 water table elevation data were calculated for well couplets WMW-204/WMW-203, WMW-302/WMW-305, WMW-307/WMW-302, WMW-702/WMW-704, WMW-203/WMW-707, WMW-204/WMW-210, and WMW-503/WMW-505 (see following table). Horizontal gradients generally range between 0.002 to 0.033 feet/foot with most values less than 0.007 feet/foot. These results are similar to those from July 1995.

Monitoring Well Pair	Distance Between Wells (feet)	Piezometric Difference (feet) (July 1996)	Horizontal Hydraulic Gradient (feet/foot)
WMW-204/WMW-203	180	0.16	0.0009
WMW-302/WMW-305	256	0.28	0.001
WMW-307/WMW-302	170	5.58	0.033
WMW-702/WMW-704	240	4.28	0.018
WMW-203/WMW-707	770	5.59	0.007
WMW-204/WMW-210	200	0.36	0.002
WMW-503/WMW-505	170	0.05	0.0003

An interpretive deep water level contour map (Figure 3-5) was prepared by ABB-ES from the July 1996 water level data for 16 wells screened between 200 and 140 feet MSL, designated as deep groundwater. Figure 3-5 shows groundwater flow at this level in the aquifer is toward the east/southeast, similar to July 1995 data (Figure 3-3). Hydraulic gradients shown in Figure 3-5 were calculated for well pairs WMW-506I/WMW-5D, WMW-206I/WMW-213I, and WMW-212I/WMW-2D and range from 0.004 to 0.007 feet per foot as shown in the following table. These gradients are comparable to those calculated for shallow wells in 1995 Round I.

Monitoring Well Pair	Distance Between Wells (feet)	Piezometric Difference (feet) (July 1996)	Horizontal Hydraulic Gradient (feet/foot)
WMW-506I/WMW-5D	1,140	8.47	0.007
WMW-206I/WMW-213I	550	3.91	0.007
WMW-212I/WMW-2D	480	1.84	0.004

In 1996, of the five shallow/intermediate well clusters, only two well pairs were surveyed during sampling; a higher piezometric head was noted in the shallow well relative to the intermediate well as tabulated below. From this data and the difference between the well screen elevations, vertical hydraulic gradients were estimated:

Monitoring Well Pair	Difference in Well Screen Elevations (feet)	Piezometric Difference (feet) (July 1996)	Vertical Hydraulic Gradient (feet/foot)
WMW-506/WMW-506I	21.3	0.75	-0.035
WMW-406/WMW-406I	14.3	0.37	-0.026

The vertical hydraulic gradients calculated above are negative (downward), and are in general greater in absolute value than horizontal hydraulic gradients. These values are similar to the vertical hydraulic gradient calculated for these well pairs from 1995 Round I data.

3.2.2 Groundwater Analytical Results

Samples were collected as detailed in the Groundwater Monitoring Program CDAP (ABB-ES, 1994). The sample collection and analysis program is summarized in Table 3-1; 18 groundwater samples were collected for analysis for VOCs only, in accordance with the CDAP. Twelve additional wells were also sampled as part of the 1996 investigations of Pumphouse No. 2 and the Lonczak Drive Area (ABB-ES, 1997). These 12 wells were also analyzed for SVOCs and other parameters. During sampling, groundwater pH, specific conductance, temperature, Eh, and DO were measured for all 30 wells; results for these parameters are presented in Table 3-3. Laboratory analytical results for all 30 wells VOC analyses are summarized in Table 3-4. SVOC results are summarized in Table 3-5. Tables 3-4 and 3-5 include all analytical data collected between 1989 and 1996. Results of pH, specific conductance, temperature, Eh, and dissolved oxygen field measurements are further summarized by site area as follows:

Area	pH Range	Specific Conductance Range (µmhos/cm)	Dissolved Oxygen (mg/L)	Temperature Range (degrees C)	Eh Range
Pumphouse No. 2	5.4-6.4	101-857	0.5-8.1	11.2-15.6	3.1-275
Pumphouse No. 3	6.1-6.7	91-229	1.0-3.5	11.9-14.2	-71.2-68
Lonczak Drive Area	5.1-9.3	58-288	0.2-8.2	10.9-15.2	-77.8-215

Dissolved oxygen results are lower in wells containing the highest concentrations of BTEX. This may be evidence of active biological degradation of fuel in groundwater at the site. A detailed discussion of evidence supportive of biological degradation of fuel constituents is included in the Data Summary Report for the concurrent investigation (ABB-ES, 1997).

During groundwater sampling by ABB-ES, wells were also surveyed with an interface probe to detect the presence and thickness of non-aqueous phase liquid fuel product floating on the water table. Interface probe measurements detected a 0.02 foot thick layer of floating fuel product in WMW-709; a measurable thickness of fuel product was not detected in the other monitoring wells.

1996 Round II samples collected by ABB-ES were analyzed for VOCs by Katahdin Analytical Laboratories (Formerly Pace Incorporated Environmental Laboratories) of Westbrook, Maine. Quality assurance (QA) and quality control (QC) samples for inter- and intra-laboratory comparison were collected concurrently with the samples. QC samples included two trip blanks, two equipment rinseates, and four duplicate samples. Four split samples were collected for QA. QA samples were analyzed at the USACE NED Environmental Laboratory in Hubbardston, Massachusetts. A QA/QC review of 1996 Round II data was performed by ABB-ES and is included in Appendix B.

Laboratory data for the 18-1996 Round II VOC samples were reviewed by ABB-ES following USEPA-CLP Region I Guidelines (see validation memoranda included in Appendix B-6). The review resulted in qualification and editing of data where appropriate due to: (1) trip, rinseate, or laboratory method blank contamination; and (2) MS/MSD recovery criteria not being met. Review findings are typical of laboratory performance and overall, laboratory results are useable as qualified. Similar to 1995 Round I samples, acetone and methylene chloride were detected in QC samples

and are probably laboratory artifact. Although sample data were corrected where appropriate for blank contamination by these two VOCs, some samples did contain concentrations of these VOCs above calculated blank action levels.

Laboratory data for the 12 new monitoring wells installed and sampled by ABB-ES were reviewed following USEPA CLP Region I Guidelines (ABB-ES, 1997). Refer to the Draft Data Summary Report (ABB-ES, 1997) for a detailed discussion of validation results. Overall, data for these 12 new wells are useable as qualified.

VOC and SVOC contamination detected in the 1996 Round II samples from the former Westover AFB sites are summarized from Table 3-4 and Table 3-5 as follows:

Pumphouse No. 1. Sampling was not performed for this site during Round II (1996).

Pumphouse No. 2. Fifteen wells (WMW-201 to WMW-205B, WMW-206I, WMW-208I to WMW-210, WMW-212I, WMW-213I, WMW-216 to WMW-217, and WMW-2D; see Table 3-1) were sampled. VOCs detected in shallow and intermediate wells in 1996 Round II groundwater samples from the Pumphouse No. 2 area were BTEX; 2-butanone; and acetone (see Table 3-4). Overall, the highest concentrations of BTEX were reported in well WMW-216. SVOCs were detected in three new source area wells: WMW-215, WMW-216, and WMW-217. SVOCs detected were acenaphthene; carbazole; dibenzofuran; fluoranthene; fluorene; 2-methylnaphthalene; 4-methylphenol; naphthalene; phenanthrene; and phenol.

Pumphouse No. 3. Only wells WMW-306 and WMW-5D, were sampled in 1996 Round II to characterize groundwater north of the Lonczak Drive Area. WMW-306 was non-detect for VOCs. WMW-5D contained the VOCs ethylbenzene and TCE. Samples were not analyzed for SVOCs.

Pumphouse No. 6. Sampling was not performed for this site during Round II (1996).

Defueling Area No. 2. Sampling was not performed for this site during Round II (1996).

Lonczak Drive Area. Thirteen wells (WMW-701, WMW-702, WMW-704, and WMW-707 to WMW-716; see Table 3-1) were sampled at the Lonczak Drive Area. VOCs

detected in Round II groundwater samples from the Lonczak Drive Area were BTEX, acetone and 2-butanone. The highest concentrations of VOCs were reported in WMW-709 and WMW-710. SVOCs detected were 2,4-dimethyl-phenol; 2-methylnaphthalene; naphthalene; and phenol. Note: SVOCs were only analyzed in samples from the new monitoring wells (ABB-ES, 1997).

3.3 COMPARISON OF 1995 ROUND I TO 1996 ROUND II RESULTS

With the completion of 1996 Round II sampling, some monitoring wells at the former Westover AFB have been sampled as many as seven times in the time period from 1989 to July 1996 (see Tables 3-4 and 3-5). The purpose of this subsection is to compare 1995 Round I to 1996 Round II groundwater results. The primary groundwater contaminants are the fuel-related BTEX, phenol, and naphthalene compounds, for which data were collected from both sampling rounds.

To assess the distribution of these compounds in groundwater, interpretive contour maps of the distribution of BTEX in groundwater have been prepared. Figure 3-6 presents the distribution of BTEX detected in 1995 Round I groundwater samples while Figure 3-7 presents the distribution of BTEX detected in 1996 Round II groundwater samples. Differences between 1995 Round I and 1996 Round II results in Figures 3-6 and 3-7, and between analytical results in Table 3-4 are as follows for Pumphouse No. 2 and the Lonczak Drive Area:

- Comparison of maximum total concentrations of BTEX at Pumphouse No. 2 and the Lonczak Drive Area was performed to identify any differences in the locations and concentrations of groundwater contaminant hot-spots (see Table 3-4, Figure 3-6 and Figure 3-7). Results of the comparison are summarized in the following table. As indicated below, the maximum detected total of BTEX at the two areas generally increased between Round I and Round II. Part of the observed increase is explained by the recent (Round II) installation of additional source area monitoring wells at the sites. However, note that the concentration of BTEX in WMW-202 increased from Round I to Round II while WMW-704 decreased. The reasons for these differences in wells sampled in both rounds may reflect seasonal variations.

AREA	MAXIMUM TOTAL BTEX (µg/L) 1995 ROUND I	MAXIMUM TOTAL BTEX (µg/L) 1996 ROUND II
Pumphouse No. 1	2,100 (WMW-101)	NA
Pumphouse No. 2	8,600/9,500 (WMW-202/Dup)	15,700 (WMW-216 [new well])
Pumphouse No. 3	2,800/2,900 (WMW-301/Dup)	Partial Round
Pumphouse No. 6	15,500 (WMW-402)	NA
Defueling Area No. 2	21,000 (WMW-503)	NA
Lonczak Drive Area	15,500/16,700 (WMW-704/DUP)	17,900 (WMW-709 [new well])

- At Pumphouse No. 2, 12 wells sampled during Round I were also sampled during Round II. To compare in bulk whether a change in overall concentration of groundwater contamination has occurred, ABB-ES compared the average concentration of these 12 wells between rounds. The averages for the two rounds (1,145 micrograms per liter [µg/L] for 1995 Round I; 1,162 µg/L for 1996 Round II) show that no meaningful change in concentration occurred in one year.

- A similar comparison was performed for the Lonczak Drive Area for the wells sampled in both rounds. The averages for the two rounds (7,850 µg/L for Round I; 3,131 µg/L for Round II) show that a decrease occurred. The decrease is the result of decreases in WMW-704 and WMW-707.

- In Table 3-4 and Table 3-5, analytical results from 1995 Round I and 1996 Round II are compared to MCP GW-3 standards. This comparison shows all fuel-related VOC concentrations detected in 1995 and 1996 are below GW-3 standards. The SVOC bis(2-ethylhexyl)phthalate exceeds GW-3 standards in samples from WMW-202 and WMW-704. This SVOC, however, is believed to be detected in groundwater samples as a result of interaction of fuel-contaminated groundwater with the PVC well screen materials.

- Comparison of field measurements of pH, specific conductance, DO, Eh, and temperature from Round I to Round II (see Subsections 3.1.2 and 3.2.2 and Table 3-3) shows no meaningful differences with time.

3.4 COMPARISON OF 1995/1996 RESULTS TO PREVIOUS SAMPLING EVENTS

The purpose of this subsection is to compare 1995 Round I and 1996 Round II groundwater results to the two records collected in 1994 (ABB-ES, 1995b) and previous groundwater results. The basis for comparison are the data presented for all sampling events (1989 - 1996) in Table 3-4 and Table 3-5, and comparison of Figures 3-6 and 3-7 to similar figures presented in the 1994 groundwater monitoring report (ABB-ES, 1995b) and earlier investigations (GZA, 1994). Results of the comparison are as follows:

- The SVOC bis(2-ethylhexyl)phthalate remained the only analyte found to exceed MCP GW-3 standards, in wells WMW-202 and WMW-704. This SVOC is believed to be a sampling artifact from interaction of fuel contaminated groundwater with PVC well screen materials comprising most wells.

- In 1995 well WMW-101 had detections of BTEX (total of 2,100 μg/L) for the first time ever since 1989. Only traces of toluene and xylene had been detected previously in WMW-101 in 1989 (see Table 3-4), and ethylbenzene, toluene, and xylene had been detected previously in 1994 in WMW-102 (699 μg/L).

- Results for Pumphouse No. 3 tended to be similar between 1995 and previous sampling rounds. Results for WMW-5D continue to show the presence of ethylbenzene and TCE, similar to previous sampling rounds.

- At Pumphouse No. 6, well WMW-402 in 1995 had its highest level of BTEX ever (15,480 μg/L); another increase was observed at WMW-410D (increased from 570 μg/L to 2,900 μg/L).

- At Defueling Area No. 2, well WMW-503 increased in total BTEX from approximately 9,000 μg/L to 21,630 μg/L between 1994 and 1995 (the second highest detection ever at this well). All other detections were similar to or less than previous rounds.

- Results for Pumphouse No. 2 are similar to previous sampling rounds, with 1996 data supplemented by three new monitoring wells to delineate an area of groundwater containing more than 10,000 μg/L total BTEX.

- For the Lonczak Drive Area, results varied from 1995 to 1996 compared to previous sampling rounds with no clear trend in concentration of the plume. In 1996 the monitoring was supplemented by the addition of nine new monitoring wells which were used to better delineate the horizontal extent of groundwater contamination.

- A comparison of average concentrations for each site area over the period of 1994 to 1996 does not show any trend in the data for any site. Concentrations of BTEX in groundwater at each site area continue to be variable.

3.5 QUALITY ASSURANCE DATA RESULTS

Split samples were collected during each sampling round of the Groundwater Monitoring Program for analysis by the U.S. Army Corps of Engineers, New England Division, Environmental Laboratory located in Hubbardston, Massachusetts. These split samples were analyzed to monitor QA of the volatile organic and semivolatile organic analyses conducted on groundwater samples. Results of the QA analyses are presented in Appendix C of this report and include groundwater sampling events from Round II - September 1994, Round I - August 1995, and Round II - August 1996. Samples collected as splits are noted in Table 3-1. QA analytical results were not used to interpret site groundwater quality conditions and are not summarized with the groundwater monitoring data presented in Table 3-4 or interpretive figures.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

Two rounds of groundwater monitoring well samples were collected from six sites formerly part of Westover AFB in 1995 and 1996 for the purpose of monitoring the nature and distribution of contamination identified in previous investigations. These two rounds supplement two rounds in 1994 and complete the scope of work for groundwater monitoring at the former Westover AFB sites. The groundwater monitoring program included sampling of new and existing monitoring wells for laboratory analysis for VOCs and SVOCs; field measurement of pH, specific conductivity, temperature, and dissolved oxygen and other parameters; and measurement of water levels and, where present, floating fuel product thicknesses. Based on these data, the following conclusions can be made:

- Groundwater flow directions near the water table are influenced by a groundwater flow divide. The groundwater flow divide apparently does not extend to depth in the aquifer, however, and groundwater flow and contaminant plume migration directions from the six sites are generally to the southeast.

- Downward hydraulic gradients are present throughout the area investigated, and are greater in magnitude than horizontal hydraulic gradients. These downward gradients cause groundwater contamination to migrate downward as well as laterally in the aquifer.

- Groundwater laboratory analytical data show that groundwater contamination at the six site areas consists of the fuel related compounds BTEX, 2-methylnaphthalene, and naphthalene. Phenols and hydrocarbon TICs are also present. Comparison of the results between rounds shows variability occurs in the locations of maximum concentrations for each site area and in average site concentration with no trend in concentration apparent at any site area for the monitoring period of 1994 to 1996.

- Floating fuel product was detected in wells at the Lonczak Drive Study Area (up to 2.5 feet in thickness). Floating product was not detected at the other sites between 1994 and 1996.

- Low dissolved oxygen associated with BTEX contaminated groundwater is interpreted to indicate active biological degradation of fuel components is occurring.

- Comparison of 1995 and 1996 VOC and SVOC data to MCP GW-3 standards show no exceedances except for bis(2-ethylhexyl)phthalate, which is believed to be a sampling artifact.

4.2 Recommendations for Future Work

Based on results of the 1995 and 1996 Yearly Groundwater Monitoring Program, ABB-ES offers the following recommendations for future groundwater monitoring efforts at the Former Westover AFB Sites. Note that at this time no further groundwater monitoring is planned.

- Future water level surveys should continue to include as many water table wells as possible, including wells installed by others and currently not included in the monitoring program, if accessible.

- Any future groundwater sampling efforts should continue to include measurement of dissolved oxygen and other physical parameters; in addition, parameters useful in assessing the potential for biodegradation to occur (i.e., intrinsic remediation) should be included.

ABB-ES	ABB Environmental Services, Inc.
AFB	Air Force Base
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CDAP	Chemical Data Acquisition Plan
CLP	Contract Laboratory Program
DERP	Defense Environmental Restoration Program
DO	dissolved oxygen
DOD	Department of Defense
EPH	extractable petroleum hydrocarbons
GZA	GZA GeoEnvironmental, Inc.
J	estimated
LNAPL	light non-aqueous phase liquid
MADEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
mg/L	milligrams per liter
MSL	mean sea level
MS/MSD	matrix spike/matrix spike duplicate
NA	not analyzed
NAV	not available
QA	quality assurance
QC	quality control
RAM	Release Abatement Measure
RAO	Response Action Outcome
RAS	Routine Analytical Services

GLOSSARY OF ABBREVIATIONS AND ACRONYMS

RPD	relative percent difference
SOW	Scope of Work
SVE/AS	soil vapor extraction/air sparging
SVOC	semivolatile organic compound
SWETS	Stone & Webster Environmental Technology & Services
TCE	trichloroethene
TICs	tentatively identified compounds
µg/L	micrograms per liter
USACE-NED	U.S. Army Corps of Engineers, New England Division
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound
VPH	volatile petroleum hydrocarbons

ABB Environmental Services, Inc., (ABB-ES) 1994. *Final Chemical Data Acquisition Plan, Groundwater Monitoring Program, Former Westover Air Force Base Sites, Chicopee, Massachusetts*; prepared for U.S. Army Corps of Engineers, New England Division; Contract No. DACA33-91-D-0006, Delivery Order No. 28; August.

ABB Environmental Services, Inc., (ABB-ES) 1995a. *Final Phase I Site Investigation Report, Lonczak Drive Study Area, Former Westover Air Force Base, Chicopee, Massachusetts*; prepared for U.S. Army Corps of Engineers, New England Division; Contract No. DACA33-91-D-0006, Delivery Order No. 27; January.

ABB Environmental Services, Inc., (ABB-ES) 1995b. *1994 Yearly Groundwater Monitoring Report, Groundwater Monitoring Program, Former Westover Air Force Base Sites, Chicopee, Massachusetts*; prepared for U.S. Army Corps of Engineers, New England Division; Contract No. DACA33-91-D-0006, Delivery Order No. 28; May.

ABB Environmental Services, Inc., (ABB-ES) 1996. *Sampling and Analysis Plan, Completion of Response Action Outcome (RAO) Statements and Release Abatement Measure (RAM) Plans, Former Westover Air Force Base Sites, Chicopee, Massachusetts*; Prepared for U.S. Army Corps of Engineers, New England Division; Contract No. DACW33-94-D-0007, Delivery Order No. 18.

ABB Environmental Services, Inc., (ABB-ES) 1997. *Draft Data Summary Report, Pumphouse No. 2 and Lonczak Drive Area, Former Westover Air Force Base Sites, Chicopee, Massachusetts*; Prepared for U.S. Army Corps of Engineers, New England Division; Contract No. DAWA33-94-D-0007, Delivery Order No. 18, January.

GZA GeoEnvironmental, Inc. (GZA), 1994. *Final Phase II Investigation Report, Former Westover Air Force Base, Chicopee, Massachusetts, Site No. 1-0299*, Volumes I, II, and III; prepared for U.S. Army Corps of Engineers, New England Division; August 1994.

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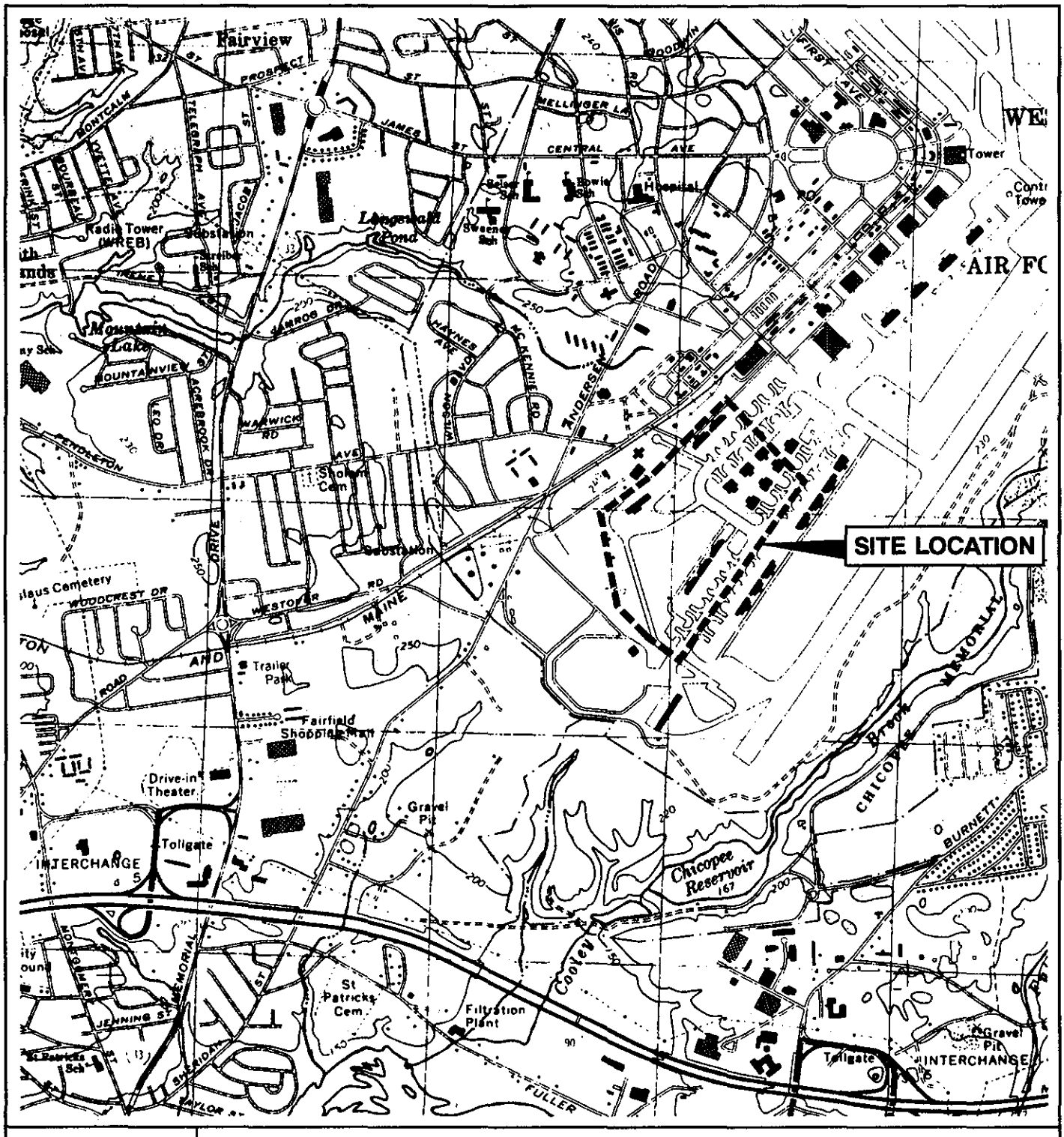
U.S. Army Corps of Engineers, New England Division (USACE NED), 1993. *Scope of Work for Groundwater Monitoring Program at Former Westover Air Force Base Sites, Chicopee, Massachusetts*; U.S. Army Corps of Engineers, Contract No. DACA33-91-D-0006, Delivery Order No. 28; December 29, 1993.

U.S. Army Corps of Engineers, New England Division (USACE NED), 1995. *Scope of Work for the Completion of Response Action Outcome (RAO) Statements and Release Abatement Measure (RAM) plans at Former Westover AFB, Chicopee, Massachusetts*; Contract No. DACW33-94-D-0007, October 3, 1995. Revised January 10, 1996.



SOURCE: USGS TOPOGRAPHIC QUADRANGLE 7.5-MINUTE SERIES, SPRINGFIELD NORTH, MASSACHUSETTS, 1972 (PHOTOREVISED 1979).

FIGURE 2-1
SITE LOCATION MAP
1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AFB SITES

ABB Environmental Services, Inc.

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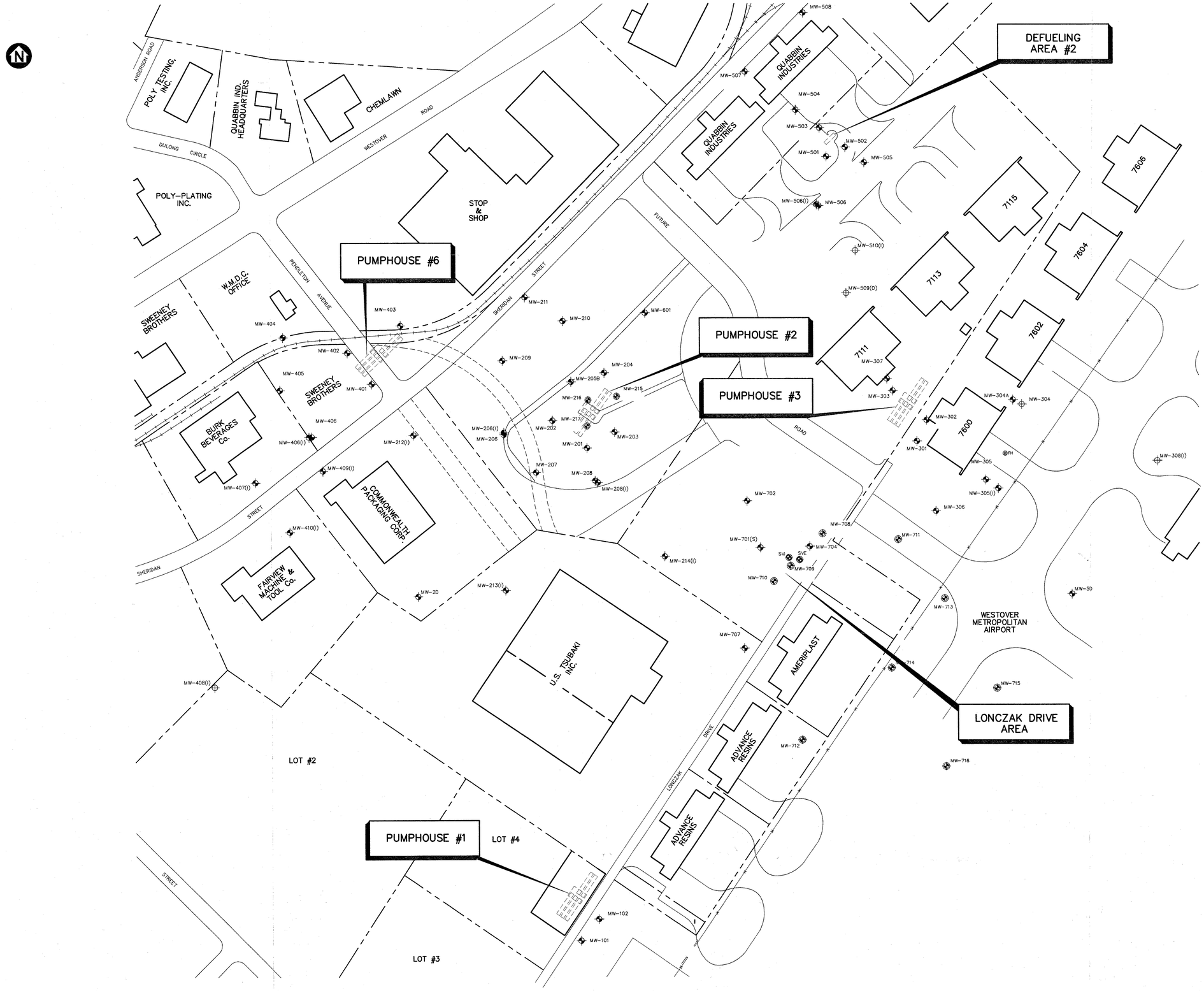

LEGEND

- PROPERTY LINE
- FENCE
- RAILROAD TRACKS
- PREVIOUSLY EXISTING MONITORING WELL (BY GZA)
- DAMAGED MONITORING WELL
- NEW MONITORING WELL
- SOIL VAPOR EXTRACTION/INJECTION WELLS
- PREVIOUS TERRAPROBE SOIL BORING

NOTES:

1) MONITORING WELLS MWW-215 TO MWW-217 AND MW-708 TO MWW-716 WERE INSTALLED IN JULY 1996 (ABB-ES, 1997).

2) BASE MAP DEVELOPED FROM PLANS PROVIDED BY WESTOVER METROPOLITAN DEVELOPMENT CORPORATION ENTITLED "AIRPARK – WEST" REVISION DATE FEBRUARY, 1988 ORIGINAL SCALE 1"=200', AN UNTITLED, UNDATED PLAN ORIGINAL SCALE 1"=400', AND A DIGITIZED PLAN PROVIDED BY HILL ENGINEERS, ARCHITECTS, (PHARMER DIVISION) REVISION DATE FEBRUARY 26, 1990. BASE MAP OBTAINED FROM GZA, 1994.

3) THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY SURVEY CONDUCTED BY HILL ENGINEERS, ARCHITECTS (PHARMER DIVISION).

4) (I) AND (D) REPRESENT INTERMEDIATE AND DEEP BORINGS IN WHICH MONITORING WELLS WERE INSTALLED. SEE TABLE 3-2 FOR ACTUAL DEPTHS OF EACH WELL SCREEN.

0 60 120 240 FEET

SCALE: 1"=120'

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FIGURE 3-1
MONITORING WELL LOCATIONS
1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

ABB Environmental Services, Inc.

LEGEND

- PROPERTY LINE
- FENCE
- RAILROAD TRACKS
- 214 GROUNDWATER CONTOUR
- 220.21 GROUNDWATER ELEVATION, FEET MEAN SEA LEVEL
- MW-305(I) MONITORING WELL LOCATION AND IDENTIFICATION (BY GZA)
- MW-304 DAMAGED MONITORING WELL
- NEW MONITORING WELL
- SOIL VAPOR EXTRACTION/INJECTION WELLS
- PREVIOUS TERRAPROBE SOIL BORING

NOTES:

1) BASE MAP DEVELOPED FROM PLANS PROVIDED BY WESTOVER METROPOLITAN DEVELOPMENT CORPORATION ENTITLED "AIRPARK – WEST" REVISION DATE FEBRUARY, 1988 ORIGINAL SCALE 1"=200', AN UNTITLED, UNDATED PLAN ORIGINAL SCALE 1"=400', AND A DIGITIZED PLAN PROVIDED BY HILL ENGINEERS, ARCHITECTS, (PHARMER DIVISION) REVISION DATE FEBRUARY 26, 1990. BASE MAP OBTAINED FROM GZA, 1994.

2) THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY SURVEY CONDUCTED BY HILL ENGINEERS, ARCHITECTS (PHARMER DIVISION).

3) (I) AND (D) REPRESENT INTERMEDIATE AND DEEP BORINGS IN WHICH MONITORING WELLS WERE INSTALLED. SEE TABLE 3-2 FOR ACTUAL DEPTHS OF EACH WELL SCREEN.

4) CONTOURS ARE BASED ON WATER LEVELS MEASURED JULY 1995.

0 60 120 240 FEET

SCALE: 1"=120'

FIGURE 3-2
INTERPRETED SHALLOW GROUNDWATER CONTOUR MAP (JULY 1995)
1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

ABB Environmental Services, Inc.

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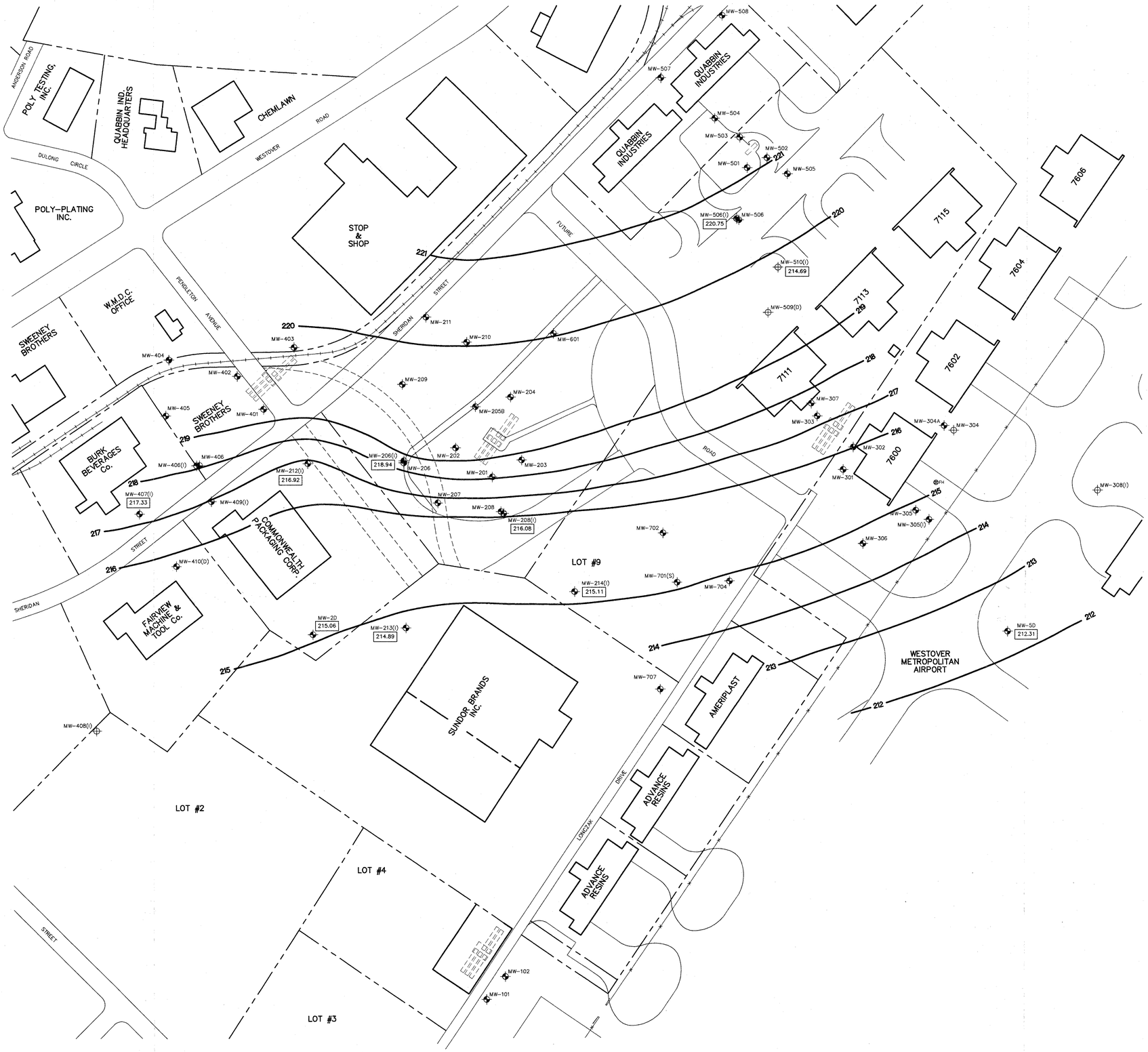

LEGEND

- PROPERTY LINE
- FENCE
- RAILROAD TRACKS
- 214 GROUNDWATER CONTOUR
- 220.75 GROUNDWATER ELEVATION, FEET MEAN SEA LEVEL
- MW-305(I) MONITORING WELL LOCATION AND IDENTIFICATION (BY GZA)
- MW-304 DAMAGED MONITORING WELL
- NEW MONITORING WELL
- SOIL VAPOR EXTRACTION/INJECTION WELLS
- PREVIOUS TERRAPROBE SOIL BORING

NOTES:

1) BASE MAP DEVELOPED FROM PLANS PROVIDED BY WESTOVER METROPOLITAN DEVELOPMENT CORPORATION ENTITILED "AIRPARK – WEST" REVISION DATE FEBRUARY, 1988 ORIGINAL SCALE 1"=200', AN UNTITLED, UNDATED PLAN ORIGINAL SCALE 1"=400', AND A DIGITIZED PLAN PROVIDED BY HILL ENGINEERS, ARCHITECTS, (PHARMER DIVISION) REVISION DATE FEBRUARY 26, 1990. BASE MAP OBTAINED FROM GZA, 1994.

2) THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY SURVEY CONDUCTED BY HILL ENGINEERS, ARCHITECTS (PHARMER DIVISION).

3) (I) AND (D) REPRESENT INTERMEDIATE AND DEEP BORINGS IN WHICH MONITORING WELLS WERE INSTALLED. SEE TABLE 3-2 FOR ACTUAL DEPTHS OF EACH WELL SCREEN.

4) CONTOURS ARE BASED ON WATER LEVELS MEASURED JULY 1995.

0 60 120 240 FEET

SCALE: 1"=120'

FIGURE 3-3
INTERPRETED DEEP GROUNDWATER CONTOUR MAP (JULY 1995)
1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

ABB Environmental Services, Inc.

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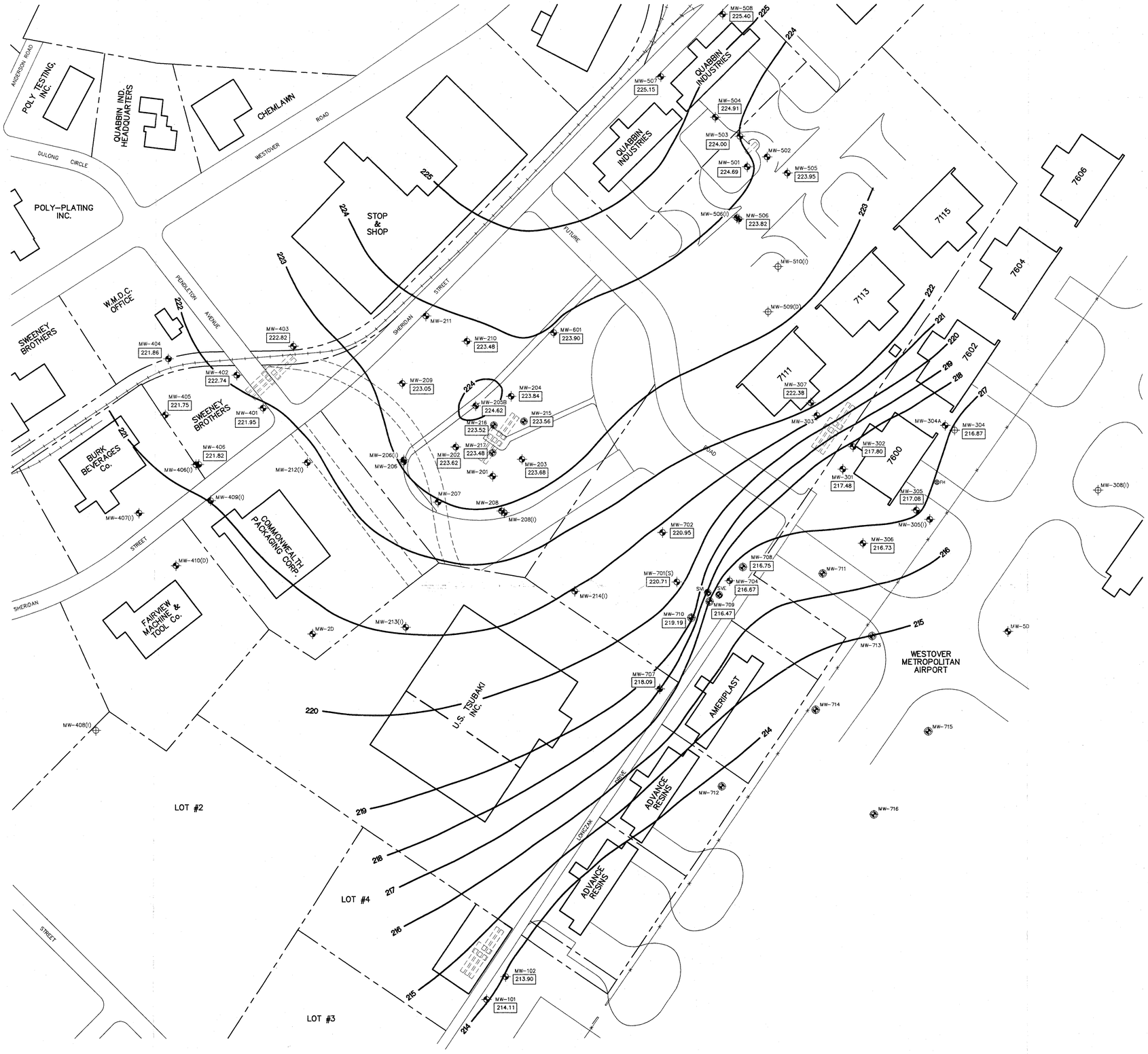

LEGEND

- PROPERTY LINE
- FENCE
- RAILROAD TRACKS
- 214 GROUNDWATER CONTOUR
- 223.82 GROUNDWATER ELEVATION, FEET MEAN SEA LEVEL
- PREVIOUSLY EXISTING MONITORING WELL (BY GZA)
- DAMAGED MONITORING WELL
- NEW MONITORING WELL
- SOIL VAPOR EXTRACTION/INJECTION WELLS
- PREVIOUS TERRAPROBE SOIL BORING

NOTES:

1) BASE MAP DEVELOPED FROM PLANS PROVIDED BY WESTOVER METROPOLITAN DEVELOPMENT CORPORATION ENTITLED "AIRPARK – WEST" REVISION DATE FEBRUARY, 1988 ORIGINAL SCALE 1"=200', AN UNTITLED, UNDATED PLAN ORIGINAL SCALE 1"=400', AND A DIGITIZED PLAN PROVIDED BY HILL ENGINEERS, ARCHITECTS, (PHARMER DIVISION) REVISION DATE FEBRUARY 26, 1990. BASE MAP OBTAINED FROM GZA, 1994.

2) THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY SURVEY CONDUCTED BY HILL ENGINEERS, ARCHITECTS (PHARMER DIVISION).

3) (I) AND (D) REPRESENT INTERMEDIATE AND DEEP BORINGS IN WHICH MONITORING WELLS WERE INSTALLED. SEE TABLE 3-2 FOR ACTUAL DEPTHS OF EACH WELL SCREEN.

4) CONTOURS ARE BASED ON WATER LEVELS MEASURED JULY 1996.

0 60 120 240 FEET

SCALE: 1"=120'

FIGURE 3-4
INTERPRETED SHALLOW GROUNDWATER
CONTOUR MAP (JULY 1996)
1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

ABB Environmental Services, Inc.

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LEGEND

- PROPERTY LINE
- FENCE
- RAILROAD TRACKS
- 214 GROUNDWATER CONTOUR
- 219.07 GROUNDWATER ELEVATION, FEET MEAN SEA LEVEL
- PREVIOUSLY EXISTING MONITORING WELL (BY GZA)
- DAMAGED MONITORING WELL
- NEW MONITORING WELL
- SOIL VAPOR EXTRACTION/INJECTION WELLS
- PREVIOUS TERRAPROBE SOIL BORING

NOTES:

1) BASE MAP DEVELOPED FROM PLANS PROVIDED BY WESTOVER METROPOLITAN DEVELOPMENT CORPORATION ENTITLED "AIRPARK – WEST" REVISION DATE FEBRUARY, 1988 ORIGINAL SCALE 1"=200', AN UNTITLED, UNDATED PLAN ORIGINAL SCALE 1"=400', AND A DIGITIZED PLAN PROVIDED BY HILL ENGINEERS, ARCHITECTS, (PHARMER DIVISION) REVISION DATE FEBRUARY 26, 1990. BASE MAP OBTAINED FROM GZA, 1994.

2) THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY SURVEY CONDUCTED BY HILL ENGINEERS, ARCHITECTS (PHARMER DIVISION), AND

3) (I) AND (D) REPRESENT INTERMEDIATE AND DEEP BORINGS IN WHICH MONITORING WELLS WERE INSTALLED. SEE TABLE 3-2 FOR ACTUAL DEPTHS OF EACH WELL SCREEN.

4) CONTOURS ARE BASED ON WATER LEVELS MEASURED JULY 1996.

0 60 120 240 FEET

SCALE: 1"=120'

FIGURE 3-5
INTERPRETED DEEP GROUNDWATER CONTOUR MAP (JULY 1996)
1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

ABB Environmental Services, Inc.

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LEGEND

- PROPERTY LINE
- FENCE
- RAILROAD TRACKS
- PREVIOUSLY EXISTING MONITORING WELL (BY GZA)
- DAMAGED MONITORING WELL
- NEW MONITORING WELL
- 10 – 100 TOTAL BTEX CONCENTRATION RANGE (ug/L)
- 100 – 1,000 TOTAL BTEX CONCENTRATION RANGE (ug/L)
- 1,000 – 10,000 TOTAL BTEX CONCENTRATION RANGE (ug/L)
- >10,000 TOTAL BTEX CONCENTRATION RANGE (ug/L)

NOTES:

1) BASE MAP DEVELOPED FROM PLANS PROVIDED BY WESTOVER METROPOLITAN DEVELOPMENT CORPORATION ENTITLED "AIRPARK – WEST" REVISION DATE FEBRUARY, 1988 ORIGINAL SCALE 1"=200', AN UNTITLED, UNDATED PLAN ORIGINAL SCALE 1"=400', AND A DIGITIZED PLAN PROVIDED BY HILL ENGINEERS, ARCHITECTS, (PHARMER DIVISION) REVISION DATE FEBRUARY 26, 1990. BASE MAP OBTAINED FROM GZA, 1994.

2) THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY SURVEY CONDUCTED BY HILL ENGINEERS, ARCHITECTS (PHARMER DIVISION) AND OWEN HASKELL SURVEYERS INC.

3) (I) AND (D) REPRESENT INTERMEDIATE AND DEEP BORINGS IN WHICH MONITORING WELLS WERE INSTALLED. SEE TABLE 3-2 FOR ACTUAL DEPTHS OF EACH WELL SCREEN.

4) LONCZAK DRIVE AREA CONCENTRATION CONTOURS BASED ON PREVIOUS 1994 ROUND II RESULTS FOR CPT BORINGS (ABB-ES, 1994).

5) TOTAL BTEX RESULTS ARE ROUNDED TO SIGNIFICANT FIGURES.

LONCZAK DRIVE AREA	
WELL NO.	TOTAL BTEX (ug/L)
WMW-701(S)	10,200
WMW-702	ND
WMW-704	16,800/15,300*
WMW-707	5,100

* DUPLICATE SAMPLE

DEFUELING AREA #2	
WELL NO.	TOTAL BTEX (ug/L)
WMW-501	670
WMW-502	1,900
WMW-503	21,000
WMW-504	6,300
WMW-505	ND
WMW-506	ND
WMW-506(I)	4,000
WMW-507	ND/6*
WMW-508	ND
WMW-510(I)	16

* DUPLICATE SAMPLE

PUMPHOUSE #1	
WELL NO.	TOTAL BTEX (ug/L)
WMW-101	2,100
WMW-102	ND/ND*

* DUPLICATE SAMPLE

PUMPHOUSE #2	
WELL NO.	TOTAL BTEX (ug/L)
WMW-2(D)	ND
WMW-201	200
WMW-202	8,600/9,500*
WMW-203	ND
WMW-204	780
WMW-205B	ND
WMW-206	12
WMW-206 (I)	1,500
WMW-207	6
WMW-208	ND
WMW-208 (I)	2,200
WMW-209	ND
WMW-210	ND
WMW-211	ND
WMW-212 (I)	ND
WMW-213 (I)	11
WMW-214 (I)	ND
WMW-601	2

* DUPLICATE SAMPLE

PUMPHOUSE #3	
WELL NO.	TOTAL BTEX (ug/L)
WMW-301	2,800/2,900*
WMW-302	1,600
WMW-303	30
WMW-304A	ND
WMW-305	ND
WMW-306	ND
WMW-307	30/ND*
WMW-5 (D)	ND

* DUPLICATE SAMPLE

PUMPHOUSE #6	
WELL NO.	TOTAL BTEX (ug/L)
WMW-401	ND
WMW-402	15,500
WMW-403	ND
WMW-404	ND
WMW-405	20
WMW-406	4,300
WMW-406 (I)	300
WMW-407 (I)	ND
WMW-409 (I)	70
WMW-410 (I)	2,900

* DUPLICATE SAMPLE

0 60 120 240 FEET

SCALE: 1"=120'

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FIGURE 3-6
DISTRIBUTION OF BTEX IN GROUNDWATER
ROUND I (1995)
1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

ABB Environmental Services, Inc.

LEGEND

- PROPERTY LINE
- FENCE
- RAILROAD TRACKS
- PREVIOUSLY EXISTING MONITORING WELL (BY GZA)
- DAMAGED MONITORING WELL
- NEW MONITORING WELL
- SOIL VAPOR EXTRACTION/INJECTION WELLS
- 10 – 100 TOTAL BTEX CONCENTRATION RANGE (ug/L)
- 100 – 1,000 TOTAL BTEX CONCENTRATION RANGE (ug/L)
- 1,000 – 10,000 TOTAL BTEX CONCENTRATION RANGE (ug/L)
- >10,000 TOTAL BTEX CONCENTRATION RANGE (ug/L)

NOTES:

1) BASE MAP DEVELOPED FROM PLANS PROVIDED BY WESTOVER METROPOLITAN DEVELOPMENT CORPORATION ENTITLED "AIRPARK – WEST" REVISION DATE FEBRUARY, 1988 ORIGINAL SCALE 1"=200', AN UNTITLED, UNDATED PLAN ORIGINAL SCALE 1"=400', AND A DIGITIZED PLAN PROVIDED BY HILL ENGINEERS, ARCHITECTS, (PHARMER DIVISION) REVISION DATE FEBRUARY 26, 1990. BASE MAP OBTAINED FROM GZA, 1994.

2) THE LOCATION OF THE MONITORING WELLS WERE DETERMINED BY SURVEY CONDUCTED BY HILL ENGINEERS, ARCHITECTS (PHARMER DIVISION) AND OWEN HASKELL SURVEYERS INC.

3) (I) AND (D) REPRESENT INTERMEDIATE AND DEEP BORINGS IN WHICH MONITORING WELLS WERE INSTALLED. SEE TABLE 3-2 FOR ACTUAL DEPTHS OF EACH WELL SCREEN.

4) TOTAL BTEX RESULTS ARE ROUNDED TO SIGNIFICANT FIGURES.

LONCZAK DRIVE AREA	
WELL NO.	TOTAL BTEX (ug/L)
WMW-701(S)	7,100
WMW-702	ND
WMW-704	5,400
WMW-707	ND
WMW-708	8,700
WMW-709	17,900
WMW-710	16,800
WMW-711	1,100/2,200*
WMW-712	5,900
WMW-713	ND
WMW-714	ND
WMW-715	ND
WMW-716	950

* DUPLICATE SAMPLE

PUMPHOUSE #2	
WELL NO.	TOTAL BTEX (ug/L)
WMW-2D	ND
WMW-201	730/740*
WMW-202	11,200
WMW-203	ND
WMW-204	325
WMW-205B	38
WMW-206 (I)	1,300/1,600*
WMW-208 (I)	146
WMW-209	ND
WMW-210	ND
WMW-212 (I)	5
WMW-213 (I)	7
WMW-215	6,300
WMW-216	15,700
WMW-217	2,500/2,200*

* DUPLICATE SAMPLE

PUMPHOUSE #3	
WELL NO.	TOTAL BTEX (ug/L)
WMW-5 (D)	160
WMW-306	ND

0 60 120 240 FEET

SCALE: 1" = 120'

FIGURE 3-7
DISTRIBUTION OF BTEX IN GROUNDWATER
ROUND II (1996)
1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

ABB Environmental Services, Inc.

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TABLE 3-1
1995 - 1996 GROUNDWATER MONITORING PROGRAM SUMMARY

1995 - 1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

AREA	WELL # (WMW)	LANDOWNER	1995 ROUND I SAMPLES COLLECTION DATE	TYPE	VOCS	SVOCS	1996 ROUND II SAMPLES COLLECTION DATE	TYPE	VOCS	SVOCS
Pumphouse #1	101	WMDC	07/10/95	n	X					
	102	WMDC	07/10/95	n,d,s	X					
Pumphouse #2	201	WMDC	07/15/95	n	X	X	07/09/96	n,d,s	X	
	202	WMDC	07/15/95	n,d,s	X	X	07/09/96	n,s	X	
	203	WMDC	07/11/95	n	X		07/09/96	n	X	
	204	WMDC	07/15/95	n	X	X	07/09/96	n	X	
	205B	WMDC	07/15/95	n	X	X	07/09/96	n	X	
	206	WMDC	07/11/95	n	X					
	206(I)	WMDC	07/11/95	n	X	X	07/12/96	n, d	X	
	207	WMDC	07/11/95	n	X					
	208	WMDC	07/11/95	n	X					
	208(I)	WMDC	07/11/95	n	X	X	07/09/96	n	X	
	209	WMDC	07/11/95	n	X		07/12/96	n	X	
	210	WMDC	07/11/95	n	X		07/09/96	n	X	
	211	WMDC	07/11/95	n	X					
	212(I)	Comm. Packaging	07/12/95	n	X		07/09/96	n	X	
	213(I)	U.S. Tsubaki, Inc.	07/12/95	n	X	X	07/09/96	n	X	
	214(I)	WMDC	07/12/95	n	X	X				
	215	WMDC	Not Drilled				7/10/96*	n	X	X
	216	WMDC	Not Drilled				7/10/96*	n	X	X
	217	WMDC	Not Drilled				7/10/96*	n, d	X	X
	601	WMDC	07/12/95	n	X					
	2(D)	Comm. Packaging	07/12/95	n	X		07/09/96	n	X	
Pumphouse #3	301	WMDC	07/13/95	n,d,s	X	X				
	302	WMDC	07/13/95	n	X	X				
	303	WMDC	07/12/95	n	X	X				
	304	WMDC	damaged	-	-	-	damaged	-	-	-
	304A	WMDC	07/12/95	n	X					
	305	WMDC	07/12/95	n	X					
	305(I)	WMDC	07/12/95	n	X	X				
	306	WMDC	07/13/95	n	X	X	07/10/96	n	X	
	307	WMDC	07/12/95	n,d,s	X					
	308(I)	WMDC/Airport	damaged	-	-	-	damaged	-	-	-
	5(D)	WMDC/Airport	07/13/95	n	X	X	07/10/96	n	X	
Pumphouse #6	401	Sweeney Bros.	07/13/95	n	X					
	402	Sweeney Bros.	07/14/95	n	X	X				
	403	Stop & Shop	07/14/95	n	X					
	404	WMDC	07/14/95	n	X					
	405	Sweeney Bros.	07/14/95	n	X					
	406	Sweeney Bros.	07/14/95	n	X	X				
	406(I)	Sweeney Bros.	07/14/95	n	X	X				
	407(I)	Burke Beverages	07/14/95	n	X					
	408(I)	WMDC	damaged	-	-	-	damaged	-	-	-
	409(I)	Fairview Machine	07/14/95	n	X	X				
	410(I)	Comm. Packaging	07/14/95	n	X	X				
Defueling Area #2	501	WMDC	07/14/95	n	X	X				
	502	WMDC	07/14/95	n	X	X				
	503	WMDC	07/14/95	n	X	X				
	504	Quabbin Ind.	07/14/95	n	X	X				
	505	WMDC	07/13/95	n	X	X				
	506	WMDC	07/13/95	n	X	X				
	506(I)	WMDC	07/13/95	n	X	X				
	507	Quabbin Ind.	07/13/95	n,d,s	X					
	508	Quabbin Ind.	07/13/95	n	X					
	509(D)	WMDC	damaged	-	-	-	damaged	-	-	-
	510(I)	WMDC	07/13/95	n	X		damaged	-	-	-

TABLE 3-1
1995 - 1996 GROUNDWATER MONITORING PROGRAM SUMMARY

1995 - 1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

AREA	WELL # (WMW)	LANDOWNER	1995 ROUND I SAMPLES COLLECTION DATE	TYPE	VOCS	SVOCS	1996 ROUND II SAMPLES COLLECTION DATE	TYPE	VOCS	SVOCS
Lonczak Drive Area	701	WMDC	07/15/95	n	X	X	07/11/96	n	X	
	702	WMDC	07/15/95	n	X		07/11/96	n	X	
	704	WMDC	07/11/95	n,d,s	X	X	07/11/96	n	X	
	707	U.S. Tsubaki, Inc.	07/15/95	n	X	X	07/11/96	n	X	
	708	WMDC	Not Drilled				7/11/96*	n	X	X
	709	WMDC	Not Drilled				7/11/96*	n	X	X
	710	WMDC	Not Drilled				7/11/96*	n	X	X
	711	WMDC	Not Drilled				7/11/96*	n, d, s	X	X
	712	WMDC	Not Drilled				7/11/96*	n	X	X
	713	WMDC	Not Drilled				7/10/96*	n	X	X
	714	WMDC	Not Drilled				7/10/96*	n	X	X
	715	WMDC	Not Drilled				7/17/96*	n, s	X	X
	716	WMDC	Not Drilled				7/10/96*	n	X	X

NOTES:

(D)	=	deep
*	=	Collected during concurrent investigaton, see Data Summary Report (ABB-ES, 1996b)
Blank space	=	not analyzed
d	=	Duplicate sample collected for laboratory analysis
(I)	=	intermediate
n	=	Sample collected for laboratory analysis (normal sample)
s	=	Split sample collected for QA laboratory analysis
SVOCS	=	Semivolatile Organic Compounds (USEPA Method 8270)
VOCS	=	Volatile Organic Compounds (USEPA Method 8240 [1995] or Method 8260 [1996])
WMDC	=	Westover metropolitan Develo;ment Corp.

TABLE 3-2
1995-1996 GROUNDWATER ELEVATION DATA

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

AREA	WELL # (WMW)	LANDOWNER	TOP OF RISER ELEVATION (feet MSL)	BOTTOM OF SCREEN ELEV. (feet MSL)	1995 ROUND I		1996 ROUND II	
					DEPTH TO WATER (feet below PVC riser)	WATER LEVEL (feet, MSL)(1)	DEPTH TO WATER (feet below PVC riser)	WATER LEVEL (feet, MSL)(2)
Pumphouse #1	101	WMDC	240.89	207.20	28.90	211.99	26.69	214.20
	102	WMDC	242.34	206.10	30.71	211.63	28.44	213.90
Pumphouse #2	201	WMDC	240.44	214.80	19.21	221.23	NM	NM
	202	WMDC	240.87	215.00	19.52	221.35	17.25	223.62
	203	WMDC	240.81	215.00	19.69	221.12	17.13	223.68
	204	WMDC	241.74	215.60	20.28	221.46	17.90	223.84
	205B	WMDC	244.75	220.60	22.31	222.44	20.13	224.62
	206	WMDC	242.52	219.60	21.54	220.98	NM	NM
	206(I)	WMDC	242.40	182.60	23.46	218.94	21.36	221.04
	207	WMDC	241.79	215.90	21.14	220.65	NM	NM
	208	WMDC	242.17	216.00	20.93	221.24	NM	NM
	208(I)	WMDC	243.25	181.00	27.17	216.08	24.18	219.07
	209	WMDC	241.32	216.32	20.22	221.10	18.27	223.05
	210	WMDC	244.69	212.69	23.27	221.42	21.21	223.48
	211	WMDC	241.60	217.60	20.22	221.38	NM	NM
	212(I)	Comm. Packaging	245.28	185.28	28.36	216.92	26.17	219.11
	213(I)	U.S. Tsubaki, Inc.	239.61	179.61	24.72	214.89	22.48	217.13
	214(I)	WMDC	242.67	182.67	27.56	215.11	NM	NM
	215	WMDC	240.79	217.79	Not Drilled	Not Drilled	17.23	223.56
	216	WMDC	240.52	216.52	Not Drilled	Not Drilled	17.00	223.52
	217	WMDC	240.26	216.26	Not Drilled	Not Drilled	16.78	223.48
	601	WMDC	242.70	212.10	21.20	221.50	18.80	223.90
	2(D)	Comm. Packaging	241.57	141.44	26.51	215.06	24.30	217.27
Pumphouse #3	301	WMDC	242.72	207.70	27.65	215.07	25.24	217.48
	302	WMDC	242.39	206.50	26.96	215.43	25.59	216.80
	303	WMDC	241.66	216.00	21.51	220.15	NM	NM
	304	WMDC	241.02	210.90	NM	NM	24.15	216.87
	304A	WMDC	242.40	204.40	26.56	215.84	NM	NM
	305	WMDC	242.23	209.90	27.46	214.77	25.15	217.08
	305(I)	WMDC	241.84	205.00	27.22	214.62	NM	NM
	306	WMDC	239.61	209.80	25.27	214.34	22.88	216.73
	307	WMDC	240.52	205.52	20.31	220.21	18.14	222.38
	308(I)	WMDC/Airport	242.26	182.26	NM	NM	NM	NM
	5(D)	WMDC/Airport	241.93	176.93	29.62	212.31	27.33	214.60
Pumphouse #6	401	Sweeney Bros.	241.67	213.90	21.70	219.97	19.72	221.95

TABLE 3-2
1995-1996 GROUNDWATER ELEVATION DATA

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

AREA	WELL # (WMW)	LANDOWNER	TOP OF RISER ELEVATION (feet MSL)	BOTTOM OF SCREEN ELEV. (feet MSL)	1995 ROUND I		1996 ROUND II	
					DEPTH TO WATER (feet below PVC riser)	WATER LEVEL (feet, MSL)(1)	DEPTH TO WATER (feet below PVC riser)	WATER LEVEL (feet, MSL)(2)
Pumphouse #6 (con't)	402	Sweeney Bros.	242.11	214.50	22.13	219.98	19.37	222.74
	403	Stop & Shop	242.32	216.20	21.83	220.49	19.50	222.82
	404	WMDC	242.26	215.00	22.70	219.56	20.40	221.86
	405	Sweeney Bros.	239.48	214.65	20.04	219.44	17.73	221.75
	406	Sweeney Bros.	242.01	215.70	22.59	219.42	20.19	221.82
	406(I)	Sweeney Bros.	241.39	201.39	22.12	219.27	19.94	221.45
	407(I)	Burke Beverages	239.62	179.62	22.29	217.33	20.01	219.61
	408(I)	WMDC	241 (EST)	179 (EST)	NM	NM	NM	NM
	409(I)	Fairview Machine	241.68	208.68	22.29	219.39	NM	NM
	410(I)	Comm. Packaging	239.48	206.48	21.64	217.84	NM	NM
Defueling Area #2	501	WMDC	241.44	214.40	19.17	222.27	16.75	224.69
	502	WMDC	240.23	215.20	18.02	222.21	NM	NM
	503	WMDC	239.61	214.80	17.19	222.42	15.61	224.00
	504	Quabbin Ind.	243.06	218.10	20.30	222.76	18.15	224.91
	505	WMDC	240.89	217.20	19.15	221.74	16.94	223.95
	506	WMDC	240.85	217.00	19.33	221.52	17.03	223.82
	506(I)	WMDC	240.73	195.73	19.98	220.75	17.66	223.07
	507	Quabbin Ind.	243.62	219.62	20.56	223.06	18.47	225.15
	508	Quabbin Ind.	244.13	220.13	20.83	223.30	18.73	225.40
	509(D)	WMDC	241.58	176.78	NM	NM	NM	NM
	510(I)	WMDC	242.41	177.41	22.72	219.69	20.64	221.77
Lonczak Drive Area	701	WMDC	240.05	208.05	21.06	218.99	19.34	220.71
	702	WMDC	239.40	217.40	20.83	218.57	18.45	220.95
	704	WMDC	240.83	213.83	26.00	214.83	24.16	216.67
	707	U.S. Tsubaki, Inc.	240.96	213.96	25.23	215.73	22.87	218.09
	708	WMDC	241.30	208.30	Not Drilled	Not Drilled	24.55	216.75
	709	WMDC	240.57	210.57	Not Drilled	Not Drilled	24.10	216.47
	710	WMDC	240.69	209.69	Not Drilled	Not Drilled	21.50	219.19
	711	WMDC/Airport	239.69	207.69	Not Drilled	Not Drilled	23.16	216.53
	712	WMDC/Airport	238.16	178.16	Not Drilled	Not Drilled	24.67	213.49
	713	WMDC/Airport	238.87	185.87	Not Drilled	Not Drilled	23.81	215.06
	714	WMDC/Airport	238.15	185.15	Not Drilled	Not Drilled	23.94	214.21
	715	WMDC/Airport	239.06	185.06	Not Drilled	Not Drilled	25.13	213.93
	716	WMDC/Airport	238.33	147.33	Not Drilled	Not Drilled	26.62	211.71

TABLE 3-2
1995-1996 GROUNDWATER ELEVATION DATA

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

AREA	WELL # (WMW)	LANDOWNER	TOP OF RISER ELEVATION (feet MSL)	BOTTOM OF SCREEN ELEV. (feet MSL)	1995 ROUND I		1996 ROUND II	
					DEPTH TO WATER (feet below PVC riser)	WATER LEVEL (feet, MSL)(1)	DEPTH TO WATER (feet below PVC riser)	WATER LEVEL (feet, MSL)(2)

NOTES:

EST = estimated elevation
NM = not measured
MSL = mean sea level
Monitoring well elevation survey data from GZA Final Investigation Report, August 1994, and ABB-ES Data Summary Report, December 1996.
(1) Water levels measured 7/10/95 - 7/15/95).
(2) Water levels measured 7/12/96.
(I) = intermediate
(D) = deep
WMDC = Westover Metropolitan Development Corp.

TABLE 3-3
FIELD SCREENING RESULTS FOR pH, SPECIFIC CONDUCTIVITY, TEMPERATURE, DISSOLVED OXYGEN, AND Eh

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

AREA	WELL # (WMW)	LANDOWNER	BOTTOM OF SCREEN ELEV. (feet MSL)	1995 ROUND I					1996 ROUND II					
				COLLECTION DATE	TEMP (degrees C)	pH (std. units)	SPECIFIC CONDUCT-ANCE (umhos/cm)	DISSOLVED OXYGEN (mg/L)	COLLECTION DATE	TEMP (degrees C)	pH (std. units)	SPECIFIC CONDUCT-ANCE (umhos/cm)	DISSOLVED OXYGEN (mg/L)	Eh (mV)
Pumphouse #1	101	WMDC	207.2	7/10/95	13.1	6.2	342	0.7	Not in Scope					
	102	WMDC	206.1	7/10/95	12.5	5.3	400	7.3	Not in Scope					
Pumphouse #2	201	WMDC	214.8	7/15/95	12.4	5.9	125	0.5	7/9/96	11.7	6.0	122	2.2	59.0
	202	WMDC	215	7/15/95	12.7	5.8	298	0.2	7/9/96	12.0	5.8	857	0.9	74.7
	203	WMDC	215	7/11/95	12.4	5.7	114	2.2	7/9/96	12.1	5.9	101	6.3	256.8
	204	WMDC	215.6	7/15/95	13.1	6.1	311	0.2	7/9/96	12.6	5.9	135	1.3	64.3
	205B	WMDC	220.6	7/15/95	18.6	6.0	280	3.0	7/9/96	14.4	6.1	231	1.0	62.4
	206	WMDC	219.6	7/11/95	14.3	5.7	447	1.9	Not in Scope					
	206(I)	WMDC	182.6	7/11/95	15.7	6.1	218	3.3	7/9/96	15.6	6.3	239	1.2	131.5
	207	WMDC	215.9	7/11/95	12.5	6.6	143	7.0	Not in Scope					
	208	WMDC	216	7/11/95	12.0	6.7	115	7.1	Not in Scope					
	208(I)	WMDC	181	7/11/95	13.4	5.8	150	7.1	7/9/96	15.3	6.4	102	8.1	212.1
	209	WMDC	216.32	7/11/95	14.1	5.4	118	4.2	7/9/96	13.1	5.6	172	2.4	199.8
	210	WMDC	212.69	7/11/95	14.2	5.0	103	5.0	7/9/96	13.4	5.4	113	3.5	234.9
	211	WMDC	217.6	7/11/95	13.2	5.4	640	8.6	Not in Scope					
	212(I)	Comm. Packaging	185.28	7/12/95	13.4	5.8	208	5.9	7/9/96	14.6	5.9	196	6.7	275.0
	213(I)	U.S. Tsubaki, Inc.	179.61	7/12/95	13.1	5.8	131	3.1	7/9/96	13.7	5.9	124	4.4	203.5
	214(I)	WMDC	182.67	7/12/95	13.5	5.5	182	5.0	Not in Scope					
	215	WMDC	215.4	Not drilled					7/10/96	12.9	5.8	395	0.5	38.9
	216	WMDC	214.2	Not drilled					7/10/96	11.7	6.1	374	0.5	14.3
	217	WMDC	213.9	Not Drilled					7/10/96	11.2	6.0	362	1.0	3.1
	601	WMDC	212.1	7/12/95	14.5	5.2	85	6.0	Not in Scope					
	2(D)	Comm. Packaging	141.44	7/12/95	13.4	6.2	230	7.5	7/9/96	14.1	6.3	220	5.7	253.9
Pumphouse #3	301	WMDC	207.7	7/13/95	12.7	6.3	107	0.7	Not in Scope					
	302	WMDC	206.5	7/13/95	11.9	6.0	101	1.9	Not in Scope					
	303	WMDC	216	7/12/95	12.7	5.7	70	2.8	Not in Scope					
	304	WMDC	210.9	damaged					damaged					
	304A	WMDC	204.4	7/12/95	13.1	5.9	63	2.8	Not in Scope					
	305	WMDC	209.9	7/12/95	13.3	5.7	74	5.5	Not in Scope					
	305(I)	WMDC	205	7/12/95	13.5	6.0	86	3.3	Not in Scope					
	306	WMDC	209.8	7/13/95	13.2	6.1	82	1.3	7/9/96	11.9	6.1	91	3.5	68.0
	307	WMDC	205.52	7/12/96	12.8	5.9	50	1.1	Not in Scope					
	308(I)	WMDC/Airport	182.26	damaged					damaged					
	5(D)	WMDC/Airport	176.93	7/13/95	14.6	6.6	194	1.5	7/10/96	14.2	6.7	229	1.0	-71.2
Pumphouse #6	401	Sweeney Bros.	213.9	7/13/95	12.6	5.8	200	6.9	Not in Scope					
	402	Sweeney Bros.	214.5	7/14/95	13.8	6.2	209	0.4	Not in Scope					
	403	Stop & Shop	216.2	7/13/95	9.5	5.8	28	7.7	Not in Scope					
	404	WMDC	215	7/14/95	12.2	6.2	119	7.9	Not in Scope					
	405	Sweeney Bros.	236.7	7/14/95	12.1	5.9	486	2.3	Not in Scope					
	406	Sweeney Bros.	215.7	7/14/95	13.3	6.2	280	0.6	Not in Scope					
	406(I)	Sweeney Bros.	201.39	7/14/95	14.5	6.5	312	0.6	Not in Scope					
	407(I)	Burke Beverages	179.62	7/14/95	13.9	6.3	277	0.5	Not in Scope					
	408(I)	WMDC	179	damaged					damaged					
	409(I)	Fairview Machine	208.68	7/14/95	16.4	6.5	114	4.5	Not in Scope					
	410(I)	Comm. Packaging	206.48	7/14/95	14.6	6.6	416	1.6	Not in Scope					

TABLE 3-3
FIELD SCREENING RESULTS FOR pH, SPECIFIC CONDUCTIVITY, TEMPERATURE, DISSOLVED OXYGEN, AND Eh

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

				1995 ROUND I					1996 ROUND II					
AREA	WELL # (WMW)	LANDOWNER	BOTTOM OF SCREEN ELEV (feet MSL)	COLLECTION DATE	TEMP (degrees C)	pH (std. units)	SPECIFIC CONDUCT-ANCE (umhos/cm)	DISSOLVED OXYGEN (mg/L)	COLLECTION DATE	TEMP (degrees C)	pH (std. units)	SPECIFIC CONDUCT-ANCE (µmhos/cm)	DISSOLVED OXYGEN (mg/L)	Eh (mV)
Defueling Area #2	501	WMDC	214.4	7/14/95	13.4	6.0	48	2.4	Not in Scope					
	502	WMDC	215.2	7/14/95	15.1	6.1	157	0.8	Not in Scope					
	503	WMDC	214.8	7/14/95	13.9	5.9	190	0.7	Not in Scope					
	504	Quabbin Ind.	218.1	7/14/95	15.5	6.1	139	0.6	Not in Scope					
	505	WMDC	217.2	7/13/95	13.5	5.9	67	6.0	Not in Scope					
	506	WMDC	217	7/13/95	14.1	5.8	49	4.0	Not in Scope					
	506(I)	WMDC	195.73	7/13/95	14.1	6.4	103	1.1	Not in Scope					
	507	Quabbin Ind.	219.62	7/13/95	13.1	6.1	258	7.7	Not in Scope					
	508	Quabbin Ind.	220.13	7/13/95	13.1	5.7	120	7.4	Not in Scope					
	509(D)	WMDC	176.78	damaged					damaged					
	510(I)	WMDC	177.41	7/13/95	14.3	6.0	157	0.7	Not in Scope					
Lonczak Drive Area	701	WMDC	208.05	7/15/95	12.4	5.6	69	0.4	7/11/96	11.0	5.7	64	1.0	39.6
	702	WMDC	217.4	7/15/95	12.4	6.0	54	7.1	7/11/96	11.6	5.9	59	8.2	214.5
	704	WMDC	213.83	7/11/95	12.7	5.8	88	2.4	7/11/96	12.6	5.9	136	1.2	42.6
	707	U.S. Tsubaki Inc.	213.96	7/15/95	14.3	6.1	206	2.2	7/11/96	10.9	5.1	58	2.6	144.6
	708	WMDC	206.1	Not drilled					7/11/96	12.2	5.8	139	1.1	63.8
	709	WMDC	208.5	Not drilled					7/11/96	11.5	5.4	118	0.8	178.2
	710	WMDC	207.6	Not drilled					7/11/96	11.3	5.3	58	0.2	196.4
	711	WMDC	208.05	Not drilled					7/11/96	12.9	6.0	126	0.5	57.7
	712	WMDC	178.63	Not drilled					7/11/96	15.2	9.3	288	1.3	130.1
	713	WMDC	186.33	Not drilled					7/10/96	14.5	6.9	196	1.8	111.6
	714	WMDC	185.74	Not drilled					7/10/96	14.0	6.6	215	1.8	-77.8
	715	WMDC	185.04	Not drilled					7/11/96	15.5	8.7	235	3.5	154.9
	716	WMDC	147.59	Not drilled					7/10/96	13.5	6.2	125	1.2	72.3

Notes:

Survey data from GZA Final Investigation Report, August 1994 and ABB-ES 1996 Data Summary Report

µmhos/cm = micromohs per centimeter
c = Centegrade
Eh = reduction/oxidation poetntial
mg/L = milligrams per liter
MSL = mean sea level
mV = millivolts
pH = negative logarithm of hydrogen ion concentration
WMDC = Westover Metropolitan Development Corp.

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-101				WMW-102						
SAMPLE DATE	Method 1	02/06/89	03/04/94	09/94	7/10/95	02/06/89	03/04/94	03/04/94	04/07/94	09/94	7/10/95	7/10/95
ANALYSIS	GW-3	8420	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240
NOTES								Duplicate (WMW-931)				Duplicate
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000			NA						NA		
2-Hexanone	NAV			NA						NA		
Acetone	50,000	7.0 JB		NA		16 B				NA		
Benzene	7,000			NA						NA		
Carbon Disulfide	NAV			NA						NA		
Ethylbenzene	4,000			NA	400		99			NA		
Methylene Chloride	50,000	2.0 J		NA						NA		
4-Methyl-2-pentanone	50,000			NA						NA		
Toluene	50,000	3.0 J		NA	300		120			NA		
Total Xylenes	50,000	17		NA	1400	2.0 J	480			NA		
1,4-Dichlorobenzene	8,000	*		NA		*				NA		
Tetrachloroethene	5,000			NA						NA		
Trichloroethene	20,000			NA						NA		
Chloroform	10,000			NA						NA		
Chloromethane	NAV			NA						NA		
Vinyl Chloride	40,000			NA						NA		
Chloroethane	NAV			NA						NA		
Bromodichloromethane	50,000			NA						NA		
Styrene	100,000			NA						NA		
1,1,2,2 - Tetrachloroethane	20,000			NA						NA		
1,1,2 - Trichloroethane	50,000			NA						NA		
2-Butanone	50,000			NA						NA		
Total BTEX (µg/L)	NAV	20		NA	2,100	2	699			NA		
Tentatively Identified Compounds (µg/L)												
Unknown	NAV			NA						NA	25 J	
Unknown Hydrocarbon	NAV	24 J		NA						NA		
Unknown Cyclic Hydrocarbon	NAV	15 J		NA						NA		
Total TICs (µg/L)	NAV	39		NA	653					NA	88	24

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-2D					
SAMPLE DATE	Method 1	05/18/92	01/28/93	03/07/94	09/21/94	7/12/95	7/09/96
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8260
NOTES							
Volatile Organic Compounds (VOCs) µg/L							
1,2-Dichloroethane	50,000						
2-Hexanone	NAV						
Acetone	50,000						
Benzene	7,000						
Carbon Disulfide	NAV						
Ethylbenzene	4,000						
Methylene Chloride	50,000		10 B				
4-Methyl-2-pentanone	50,000						
Toluene	50,000						
Total Xylenes	50,000						
1,4-Dichlorobenzene	8,000						
Tetrachloroethene	5,000	12	8.0	12	9	11	
Trichloroethene	20,000	10	8.7	10	9	10	
Chloroform	10,000						
Chloromethane	NAV						
Vinyl Chloride	40,000						
Chloroethane	NAV						
Bromodichloromethane	50,000						
Styrene	100,000						
1,1,2,2 - Tetrachloroethane	20,000						
1,1,2 - Trichloroethane	50,000						
2-Butanone	50,000						
Total BTEX (µg/L)	NAV						
Tentatively Identified Compounds (µg/L)							
Unknown	NAV						
Unknown Hydrocarbon	NAV						
Unknown Cyclic Hydrocarbon	NAV						
Total TICs (µg/L)	NAV	*					

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-201							
SAMPLE DATE	Method 1	02/08/89	01/28/93	03/08/94	03/08/94	09/21/94	7/15/95	7/09/96	7/09/96
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8260	8240
NOTES					Duplicate (WMW-940)				Duplicate
Volatile Organic Compounds (VOCs) µg/L									
1,2-Dichloroethane	50,000								
2-Hexanone	NAV								
Acetone	50,000	120 JB				15			
Benzene	7,000								
Carbon Disulfide	NAV								
Ethylbenzene	4,000	550	308	480	560	200	24	110	100
Methylene Chloride	50,000		8.1 B				4 JB		
4-Methyl-2-pentanone	50,000								
Toluene	50,000	1,800	322	130	180	110	37	190 J	150 J
Total Xylenes	50,000	3,300	1609	2,000	1,400	1,200	140	550	490
1,4-Dichlorobenzene	8,000	*							
Tetrachloroethene	5,000								
Trichloroethene	20,000								
Chloroform	10,000								
Chloromethane	NAV								
Vinyl Chloride	40,000								
Chloroethane	NAV								
Bromodichloromethane	50,000								
Styrene	100,000							6	
1,1,2,2 - Tetrachloroethane	20,000								
1,1,2 - Trichloroethane	50,000								
2-Butanone	50,000							12	13
Total BTEX (µg/L)	NAV	5,650	2,239	2,610	2,140	1,510	201	730	740
Tentatively Identified Compounds (µg/L)									
Unknown	NAV								
Unknown Hydrocarbon	NAV	200 J				813 J	11 J		
Unknown Cyclic Hydrocarbon	NAV	200 J				39 J			
Total TICs (µg/L)	NAV	400				852	203	179	129

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-202						
SAMPLE DATE	Method 1	02/08/89	01/28/93	03/08/94	09/22/94	7/15/95	7/15/95	7/09/96
ANALYSIS	GW-3	8420	8240	8240	8240	8240	8240	8260
NOTES							Duplicate	
Volatile Organic Compounds (VOCs) µg/L								
1,2-Dichloroethane	50,000							
2-Hexanone	NAV							
Acetone	50,000	230 J				27 J	45 J	
Benzene	7,000	900			130 J	87 J		
Carbon Disulfide	NAV							
Ethylbenzene	4,000	520	500	530	1,300	850	1,000	1,200
Methylene Chloride	50,000	350 B						
4-Methyl-2-pentanone	50,000							
Toluene	50,000	6,400	1,875	2,900	6,500	3,400 J	3,800 J	4,100
Total Xylenes	50,000	3,300	3,050	3,400	8,500	4,300	4,700	5,900
1,4-Dichlorobenzene	8,000	*						
Tetrachloroethene	5,000							
Trichloroethene	20,000							
Chloroform	10,000							
Chloromethane	NAV							
Vinyl Chloride	40,000							
Chloroethane	NAV							
Bromodichloromethane	50,000							
Styrene	100,000							
1,1,2,2 - Tetrachloroethane	20,000							
1,1,2 - Trichloroethane	50,000							
2-Butanone	50,000							
Total BTEX (µg/L)	NAV	11,120	5,425	6,830	16,300	8,637	9,500	11,200
Tentatively Identified Compounds (µg/L)								
Unknown	NAV				960 J			150 J
Unknown Hydrocarbon	NAV	64,500 J			1,153 J			
Unknown Cyclic Hydrocarbon	NAV	6,500 J						
Total TICs (µg/L)	NAV	71,000			2,113	5,920	31,900	2,700

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-203					
SAMPLE DATE	Method 1	02/08/89	03/08/94	09/21/94	09/21/94	7/11/95	7/09/96
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8260
NOTES					Duplicate		
Volatile Organic Compounds (VOCs) µg/L							
1,2-Dichloroethane	50,000						
2-Hexanone	NAV						
Acetone	50,000	10 JB				4 J	
Benzene	7,000	4.0 J					
Carbon Disulfide	NAV						
Ethylbenzene	4,000						
Methylene Chloride	50,000	2.0 J					
4-Methyl-2-pentanone	50,000						
Toluene	50,000						
Total Xylenes	50,000						
1,4-Dichlorobenzene	8,000	*					
Tetrachloroethene	5,000						
Trichloroethene	20,000						
Chloroform	10,000						
Chloromethane	NAV						
Vinyl Chloride	40,000						
Chloroethane	NAV						
Bromodichloromethane	50,000						
Styrene	100,000						
1,1,2,2 - Tetrachloroethane	20,000						
1,1,2 - Trichloroethane	50,000						
2-Butanone	50,000						
Total BTEX (µg/L)	NAV	4					
Tentatively Identified Compounds (µg/L)							
Unknown	NAV						
Unknown Hydrocarbon	NAV						
Unknown Cyclic Hydrocarbon	NAV						
Total TICs (µg/L)	NAV						

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-204						
SAMPLE DATE	Method 1	02/08/89	05/18/92	05/18/92	03/08/94	09/21/94	7/15/95	7/09/96
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8260
NOTES				Duplicate (WMW-901)				
Volatile Organic Compounds (VOCs) µg/L								
1,2-Dichloroethane	50,000							
2-Hexanone	NAV							
Acetone	50,000	180 JB						
Benzene	7,000							2
Carbon Disulfide	NAV							
Ethylbenzene	4,000	660	36	43	860	280	120	38
Methylene Chloride	50,000	1,100 B						
4-Methyl-2-pentanone	50,000							
Toluene	50,000	3,000		27	2,700	920		85
Total Xylenes	50,000	3,700	190	220	4,300	1,400	660	200
1,4-Dichlorobenzene	8,000	*						
Tetrachloroethene	5,000							
Trichloroethene	20,000							
Chloroform	10,000							
Chloromethane	NAV							
Vinyl Chloride	40,000							
Chloroethane	NAV							
Bromodichloromethane	50,000							
Styrene	100,000							
1,1,2,2 - Tetrachloroethane	20,000							
1,1,2 - Trichloroethane	50,000							
2-Butanone	50,000							
Total BTEX (µg/L)	NAV	7,360	226	290	7,860	2,600	780	325
Tentatively Identified Compounds (µg/L)								
Unknown	NAV					310 J	69 J	
Unknown Hydrocarbon	NAV	250 J				820 J		
Unknown Cyclic Hydrocarbon	NAV	350 J						
Total TICs (µg/L)	NAV	600	*	*	*	1,130	1,179	133

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-205B					
SAMPLE DATE	Method 1	12/05/89	05/18/92	03/08/94	09/23/94	7/15/95	7/09/96
ANALYSIS	GW-3	8020	8240	8240	8240	8240	8260
NOTES							
Volatile Organic Compounds (VOCs) µg/L							
1,2-Dichloroethane	50,000						
2-Hexanone	NAV						
Acetone	50,000	*		79			
Benzene	7,000						3
Carbon Disulfide	NAV						
Ethylbenzene	4,000	4,000	93				4
Methylene Chloride	50,000	*					
4-Methyl-2-pentanone	50,000	*					
Toluene	50,000	1,400					18
Total Xylenes	50,000	11,000	1,700	12			13
1,4-Dichlorobenzene	8,000	11,000					
Tetrachloroethene	5,000						
Trichloroethene	20,000						
Chloroform	10,000						
Chloromethane	NAV						
Vinyl Chloride	40,000						
Chloroethane	NAV						
Bromodichloromethane	50,000						
Styrene	100,000						
1,1,2,2 - Tetrachloroethane	20,000						
1,1,2 - Trichloroethane	50,000						
2-Butanone	50,000						
Total BTEX (µg/L)	NAV	16,400	1,793	12			38
Tentatively Identified Compounds (µg/L)							
Unknown	NAV	*			33 J	230 J	
Unknown Hydrocarbon	NAV	*			44 J		
Unknown Cyclic Hydrocarbon	NAV	*					
Total TICs (µg/L)	NAV	*	*		77	45	

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-206				WMW-206I					
SAMPLE DATE	Method 1	12/05/89	03/11/94	09/94	7/11/95	05/18/92	03/11/94	09/21/94	7/11/95	7/09/96	7/09/96
ANALYSIS	GW-3	8020	8240	8240	8240	8240	8240	8240	8240	8260	8260
NOTES											Duplicate
Volatile Organic Compounds (VOCs) µg/L											
1,2-Dichloroethane	50,000			NA							
2-Hexanone	NAV			NA							
Acetone	50,000	*	36	NA		25					
Benzene	7,000			NA	7			4 J	18	23	26
Carbon Disulfide	NAV			NA							
Ethylbenzene	4,000			NA		820	730	550	660	560	670
Methylene Chloride	50,000	*		NA							
4-Methyl-2-pentanone	50,000	*		NA							
Toluene	50,000			NA					90	91	120
Total Xylenes	50,000			NA	5	690	690	640	710	660	820
1,4-Dichlorobenzene	8,000			NA							
Tetrachloroethene	5,000			NA							
Trichloroethene	20,000			NA							
Chloroform	10,000			NA							
Chloromethane	NAV										
Vinyl Chloride	40,000										
Chloroethane	NAV										
Bromodichloromethane	50,000										
Styrene	100,000										
1,1,2,2 - Tetrachloroethane	20,000										
1,1,2 - Trichloroethane	50,000										
2-Butanone	50,000			NA							
Total BTEX (µg/L)	NAV			NA	12	1,510	1,420	1,190	1,478	1,334	1,636
Tentatively Identified Compounds (µg/L)											
Unknown	NAV	*		NA							
Unknown Hydrocarbon	NAV	*		NA				2,484 J			
Unknown Cyclic Hydrocarbon	NAV	*		NA				250 J			
Total TICs (µg/L)	NAV	*		NA	46.1	*		2,734	3192	777	827

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-207					WMW-208			
SAMPLE DATE	Method 1	12/05/89	05/18/92	03/08/94	09/94	7/11/95	12/05/89	03/08/94	09/94	7/11/95
ANALYSIS	GW-3	8020	8240	8240	8240	8240	8020	8240	8240	8240
NOTES										
Volatile Organic Compounds (VOCs) µg/L										
1,2-Dichloroethane	50,000				NA				NA	
2-Hexanone	NAV				NA				NA	
Acetone	50,000	*	12		NA		*		NA	
Benzene	7,000				NA				NA	
Carbon Disulfide	NAV				NA				NA	
Ethylbenzene	4,000				NA				NA	
Methylene Chloride	50,000	*			NA		*		NA	
4-Methyl-2-pentanone	50,000	*			NA		*		NA	
Toluene	50,000				NA	6			NA	
Total Xylenes	50,000				NA				NA	
1,4-Dichlorobenzene	8,000				NA				NA	
Tetrachloroethene	5,000				NA				NA	
Trichloroethene	20,000				NA				NA	
Chloroform	10,000				NA				NA	
Chloromethane	NAV				NA				NA	
Vinyl Chloride	40,000				NA				NA	
Chloroethane	NAV				NA				NA	
Bromodichloromethane	50,000				NA				NA	
Styrene	100,000				NA				NA	
1,1,2,2 - Tetrachloroethane	20,000				NA				NA	
1,1,2 - Trichloroethane	50,000				NA				NA	
2-Butanone	50,000				NA				NA	
Total BTEX (µg/L)	NAV				NA	6			NA	
Tentatively Identified Compounds (µg/L)										
Unknown	NAV	*			NA		*		NA	
Unknown Hydrocarbon	NAV	*			NA		*		NA	
Unknown Cyclic Hydrocarbon	NAV	*			NA		*		NA	
Total TICs (µg/L)	NAV	*	*		NA		*		NA	

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-208I						WMW-209				
SAMPLE DATE	Method 1	05/18/92	03/08/94	09/21/94	09/21/94	7/11/95	7/09/96	07/09/92	03/07/94	09/94	7/11/95	7/12/96
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8260	8240	8240	8240	8240	8240
NOTES					Duplicate							
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000									NA		
2-Hexanone	NAV									NA		
Acetone	50,000	140								NA		
Benzene	7,000	380	480	240	220	640	58			NA		
Carbon Disulfide	NAV									NA		
Ethylbenzene	4,000	120	180	94	96	390	37			NA		
Methylene Chloride	50,000									NA		
4-Methyl-2-pentanone	50,000									NA		
Toluene	50,000	24				92	8			NA		
Total Xylenes	50,000	210	380	160	160	1,100	43			NA		
1,4-Dichlorobenzene	8,000									NA		
Tetrachloroethene	5,000									NA		
Trichloroethene	20,000									NA		
Chloroform	10,000									NA		
Chloromethane	NAV									NA		
Vinyl Chloride	40,000									NA		
Chloroethane	NAV									NA		
Bromodichloromethane	50,000									NA		
Styrene	100,000									NA		
1,1,2,2 - Tetrachloroethane	20,000									NA		
1,1,2 - Trichloroethane	50,000									NA		
2-Butanone	50,000									NA		
Total BTEX (µg/L)	NAV	734	1,040	494	476	2,222	146			NA		
Tentatively Identified Compounds (µg/L)												
Unknown	NAV			26 J	14 J	48 J				NA	20 J	
Unknown Hydrocarbon	NAV			114 J	128 J					NA		
Unknown Cyclic Hydrocarbon	NAV			8 J	15 J					NA		
Total TICs (µg/L)	NAV	*		148	157	806	48	*		NA	72	228

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-210					WMW-211			
SAMPLE DATE	Method 1	05/18/92	03/24/94	09/94	7/11/95	7/09/96	05/18/92	03/26/94	09/94	7/11/95
ANALYSIS	GW-3	8240	8240	8240	8240	8260	8240	8240	8240	8240
NOTES										
Volatile Organic Compounds (VOCs) µg/L										
1,2-Dichloroethane	50,000			NA					NA	
2-Hexanone	NAV			NA					NA	
Acetone	50,000			NA			24	16	NA	
Benzene	7,000			NA					NA	
Carbon Disulfide	NAV			NA					NA	
Ethylbenzene	4,000			NA					NA	
Methylene Chloride	50,000			NA					NA	
4-Methyl-2-pentanone	50,000			NA					NA	
Toluene	50,000			NA					NA	
Total Xylenes	50,000		7	NA					NA	
1,4-Dichlorobenzene	8,000			NA					NA	
Tetrachloroethene	5,000			NA					NA	
Trichloroethene	20,000			NA					NA	
Chloroform	10,000			NA					NA	
Chloromethane	NAV			NA					NA	
Vinyl Chloride	40,000			NA					NA	
Chloroethane	NAV			NA					NA	
Bromodichloromethane	50,000			NA					NA	
Styrene	100,000			NA					NA	
1,1,2,2 - Tetrachloroethane	20,000			NA					NA	
1,1,2 - Trichloroethane	50,000			NA					NA	
2-Butanone	50,000			NA					NA	
Total BTEX (µg/L)	NAV		7	NA					NA	
Tentatively Identified Compounds (µg/L)										
Unknown	NAV			NA	6.5 J				NA	
Unknown Hydrocarbon	NAV			NA					NA	
Unknown Cyclic Hydrocarbon	NAV			NA					NA	
Total TICs (µg/L)	NAV	*		NA	23.4		*		NA	

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-212I						WMW-213I				
SAMPLE DATE	Method 1	05/18/92	01/28/93	03/07/94	09/21/94	7/12/95	7/09/96	05/20/92	03/07/94	09/21/94	7/12/95	7/09/96
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8260	8240	8240	8240	8240	8260
NOTES												
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000											
2-Hexanone	NAV											
Acetone	50,000											
Benzene	7,000							8	12		11	7
Carbon Disulfide	NAV											
Ethylbenzene	4,000											
Methylene Chloride	50,000		8.1 B									
4-Methyl-2-pentanone	50,000											
Toluene	50,000											
Total Xylenes	50,000						5					
1,4-Dichlorobenzene	8,000											
Tetrachloroethene	5,000											
Trichloroethene	20,000	5	3.7		6							
Chloroform	10,000											
Chloromethane	NAV											
Vinyl Chloride	40,000											
Chloroethane	NAV											
Bromodichloromethane	50,000											
Styrene	100,000											
1,1,2,2 - Tetrachloroethane	20,000											
1,1,2 - Trichloroethane	50,000											
2-Butanone	50,000											
Total BTEX (µg/L)	NAV						5	8	12		11	7
Tentatively Identified Compounds (µg/L)												
Unknown	NAV											
Unknown Hydrocarbon	NAV											
Unknown Cyclic Hydrocarbon	NAV											
Total TICs (µg/L)	NAV	*					6	*			24.4	237

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-214I				WMW-215	WMW-216	WMW-217	WMW-217
SAMPLE DATE	Method 1	05/18/92	03/09/94	09/94	7/12/95	7/09/96	7/10/96	7/10/96	7/10/96
ANALYSIS	GW-3	8240	8240	8240	8240	8260	8260	8260	8260
NOTES									Duplicate
Volatile Organic Compounds (VOCs) µg/L									
1,2-Dichloroethane	50,000			NA					
2-Hexanone	NAV			NA					
Acetone	50,000			NA					
Benzene	7,000			NA					
Carbon Disulfide	NAV			NA					
Ethylbenzene	4,000			NA		720	1,600	400	340
Methylene Chloride	50,000			NA					
4-Methyl-2-pentanone	50,000			NA					
Toluene	50,000			NA		1,700	5,800		
Total Xylenes	50,000			NA		3,900	8,300	2,100	1,900
1,4-Dichlorobenzene	8,000			NA					
Tetrachloroethene	5,000			NA					
Trichloroethene	20,000			NA					
Chloroform	10,000			NA					
Chloromethane	NAV			NA					
Vinyl Chloride	40,000			NA					
Chloroethane	NAV			NA					
Bromodichloromethane	50,000			NA					
Styrene	100,000			NA					
1,1,2,2 - Tetrachloroethane	20,000			NA					
1,1,2 - Trichloroethane	50,000			NA					
2-Butanone	50,000			NA			460		130
Total BTEX (µg/L)	NAV			NA		6,320	15,700	2,500	2,240
Tentatively Identified Compounds (µg/L)									
Unknown	NAV			NA	11 J				96 J
Unknown Hydrocarbon	NAV			NA					
Unknown Cyclic Hydrocarbon	NAV			NA					
Total TICs (µg/L)	NAV	*		NA	47.7	1,600	2,100	1,296	1,267

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-301					WMW-302					
SAMPLE DATE	Method 1	02/06/89	03/09/94	09/22/94	7/13/95	7/13/95	02/06/89	05/19/92	03/09/94	03/09/94	09/22/94	7/13/95
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240
NOTES						Duplicate				Duplicate (WMW-944)		
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000											
2-Hexanone	NAV											
Acetone	50,000	51 B					310 JB					
Benzene	7,000											
Carbon Disulfide	NAV											
Ethylbenzene	4,000		730	280	620	640		410	980	1,000	200	450
Methylene Chloride	50,000						55 JB	86				
4-Methyl-2-pentanone	50,000											
Toluene	50,000											
Total Xylenes	50,000	1,970	2,700	1,000	2,200	2,300	5,700	1,300	2,800	2,900	820	1,200
1,4-Dichlorobenzene	8,000	*					*					
Tetrachloroethene	5,000											
Trichloroethene	20,000											
Chloroform	10,000											
Chloromethane	NAV											
Vinyl Chloride	40,000											
Chloroethane	NAV											
Bromodichloromethane	50,000											
Styrene	100,000											
1,1,2,2 - Tetrachloroethane	20,000											
1,1,2 - Trichloroethane	50,000											
2-Butanone	50,000											
Total BTEX (µg/L)	NAV	1,970	3,430	1,280	2,820	2,940	5,700	1,710	3,780	3,900	1,020	1,650
Tentatively Identified Compounds (µg/L)												
Unknown	NAV	40 J			160 J							430 J
Unknown Hydrocarbon	NAV	890 J		1,540 J			1,300 J				1,060 J	
Unknown Cyclic Hydrocarbon	NAV	400 J		61 J			600 J				32 J	
Total TICs (µg/L)	NAV	1,330		1,601	4,060	4420	1,900	*			1,092	3,400

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-303					WMW-304		WMW-304A				
SAMPLE DATE	Method 1	02/06/89	01/28/93	03/09/94	09/22/94	7/12/95	12/05/89	09/94	05/20/92	03/24/94	05/20/92	09/94	7/12/95
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8020	8240	8240	8240	8240	8240	8240
NOTES								Damaged			Duplicate (WMW-902)		
Volatile Organic Compounds (VOCs) µg/L													
1,2-Dichloroethane	50,000							NA				NA	
2-Hexanone	NAV							NA				NA	
Acetone	50,000						*	NA	13	10		NA	
Benzene	7,000							NA				NA	
Carbon Disulfide	NAV							NA				NA	
Ethylbenzene	4,000		11	170	130	8		NA				NA	
Methylene Chloride	50,000	6.0 J	8.2 B				*	NA				NA	
4-Methyl-2-pentanone	50,000	80					*	NA				NA	
Toluene	50,000	8.0 J						NA				NA	
Total Xylenes	50,000	282	39	590	400	24		NA				NA	
1,4-Dichlorobenzene	8,000	*						NA				NA	
Tetrachloroethene	5,000							NA				NA	
Trichloroethene	20,000							NA				NA	
Chloroform	10,000							NA				NA	
Chloromethane	NAV							NA				NA	
Vinyl Chloride	40,000							NA				NA	
Chloroethane	NAV							NA				NA	
Bromodichloromethane	50,000							NA				NA	
Styrene	100,000							NA				NA	
1,1;2,2 - Tetrachloroethane	20,000							NA				NA	
1,1,2 - Trichloroethane	50,000							NA				NA	
2-Butanone	50,000							NA				NA	
Total BTEX (µg/L)	NAV	282	50	760	530	32		NA				NA	
Tentatively Identified Compounds (µg/L)													
Unknown	NAV	400 J			47 J	16 J	*	NA				NA	
Unknown Hydrocarbon	NAV	800 J			857 J		*	NA				NA	
Unknown Cyclic Hydrocarbon	NAV	400 J			71 J		*	NA				NA	
Total TICs (µg/L)	NAV	1,600			975	396	*	NA	*		*	NA	794

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-305				WMW-305I			
SAMPLE DATE	Method 1	12/05/89	03/09/94	09/94	7/12/95	05/20/92	03/09/94	09/20/94	7/12/95
ANALYSIS	GW-3	8020	8240	8240	8240	8240	8240	8240	8240
NOTES									
Volatile Organic Compounds (VOCs) µg/L									
1,2-Dichloroethane	50,000			NA					
2-Hexanone	NAV			NA					
Acetone	50,000	*		NA			23		
Benzene	7,000			NA					
Carbon Disulfide	NAV			NA					
Ethylbenzene	4,000			NA					
Methylene Chloride	50,000	*		NA					
4-Methyl-2-pentanone	50,000	*		NA					
Toluene	50,000			NA					
Total Xylenes	50,000			NA	1 J				
1,4-Dichlorobenzene	8,000			NA					
Tetrachloroethene	5,000			NA					
Trichloroethene	20,000			NA					
Chloroform	10,000			NA					
Chloromethane	NAV			NA					
Vinyl Chloride	40,000			NA					
Chloroethane	NAV			NA					
Bromodichloromethane	50,000			NA					
Styrene	100,000			NA					
1,1,2,2 - Tetrachloroethane	20,000			NA					
1,1,2 - Trichloroethane	50,000			NA					
2-Butanone	50,000			NA					
Total BTEX (µg/L)	NAV			NA	1 J				
Tentatively Identified Compounds (µg/L)									
Unknown	NAV	*		NA				10 J	
Unknown Hydrocarbon	NAV	*		NA				115 J	
Unknown Cyclic Hydrocarbon	NAV	*		NA				37 J	
Total TICs (µg/L)	NAV	*		NA		*		162	289

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-306					WMW-307					WMW-308I	
SAMPLE DATE	Method 1	12/05/89	03/11/94	09/94	7/13/95	7/09/96	05/20/92	03/11/94	09/20/94	7/12/95	7/12/95	05/20/92	03/94
ANALYSIS	GW-3	8020	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240
NOTES											Duplicate		Damaged
Volatile Organic Compounds (VOCs) µg/L													
1,2-Dichloroethane	50,000			NA									NA
2-Hexanone	NAV			NA									NA
Acetone	50,000	*		NA			14		100				NA
Benzene	7,000			NA									NA
Carbon Disulfide	NAV			NA			6						NA
Ethylbenzene	4,000	*		NA									NA
Methylene Chloride	50,000	*		NA									NA
4-Methyl-2-pentanone	50,000			NA							45 J		NA
Toluene	50,000			NA									NA
Total Xylenes	50,000			NA						30 J			NA
1,4-Dichlorobenzene	8,000			NA									NA
Tetrachloroethene	5,000			NA									NA
Trichloroethene	20,000			NA									NA
Chloroform	10,000			NA									NA
Chloromethane	NAV			NA									NA
Vinyl Chloride	40,000			NA									NA
Chloroethane	NAV			NA									NA
Bromodichloromethane	50,000			NA									NA
Styrene	100,000			NA									NA
1,1,2,2 - Tetrachloroethane	20,000			NA									NA
1,1,2 - Trichloroethane	50,000			NA									NA
2-Butanone	50,000			NA									NA
Total BTEX (µg/L)	NAV			NA						30 J			NA
Tentatively Identified Compounds (µg/L)													
Unknown	NAV	*		NA	9 J				660 J				NA
Unknown Hydrocarbon	NAV	*		NA					1,983 J				NA
Unknown Cyclic Hydrocarbon	NAV	*		NA									NA
Total TICs (µg/L)	NAV	*		NA	9	19	*		2,643	3,073	3,091	*	NA

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-401					WMW-402					
SAMPLE DATE	Method 1	02/07/89	01/28/93	03/04/94	09/21/94	7/13/95	02/07/89	05/19/92	03/04/94	09/23/94	09/23/94	7/14/95
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8240	8240	8240	8020	8020
NOTES											Duplicate	
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000											
2-Hexanone	NAV											
Acetone	50,000						230 J					
Benzene	7,000						80 J					
Carbon Disulfide	NAV											
Ethylbenzene	4,000						1,100	1,800	1,600	1,100	980	1300
Methylene Chloride	50,000	4.0 JB	8.2 B				1,300 B					
4-Methyl-2-pentanone	50,000											
Toluene	50,000	2.0 J					3,000	2,400	690	340 J	290 J	180
Total Xylenes	*50,000*	*5.0 J*					*9,000*	*8,900*	*8,100*	*6,900*	*5,700*	*14000*
1.4-Dichlorobenzene	8,000	*					*					
Tetrachloroethene	5,000											
Trichloroethene	20,000											
Chloroform	10,000											
Chloromethane	NAV											
Vinyl Chloride	40,000											
Chloroethane	NAV											
Bromodichloromethane	50,000											
Styrene	100,000											
1,1,2,2-Tetrachloroethane	20,000											
1,1,2-Trichloroethane	50,000											
2-Butanone	50,000											
Total BTEX (µg/L)	NAV						13,180	13,100	10,390	8,000	6,680	15480
Tentatively Identified Compounds (µg/L)												
Unknown	NAV						300 J			720 J	490 J	9000 J
Unknown Hydrocarbon	NAV						800 J			9,900 J	5,280 J	
Unknown Cyclic Hydrocarbon	NAV						600 J					
Total TICs (µg/L)	NAV	BDL					1,700	*		10,620	5,770	56000

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-403				WMW-404				
SAMPLE DATE	Method 1	02/07/89	03/04/94	09/94	7/13/95	12/04/89	01/28/93	03/04/94	09/94	7/14/95
ANALYSIS	GW-3	8240	8240	8240	8240	8020	8240	8240	8240	8240
NOTES										
Volatile Organic Compounds (VOCs) µg/L										
1,2-Dichloroethane	50,000			NA					NA	
2-Hexanone	NAV			NA					NA	
Acetone	50,000			NA		*			NA	2 J
Benzene	7,000			NA					NA	
Carbon Disulfide	NAV			NA					NA	
Ethylbenzene	4,000			NA					NA	
Methylene Chloride	50,000			NA		*	8.0 B		NA	
4-Methyl-2-pentanone	50,000			NA		*			NA	
Toluene	50,000			NA		0.6 J			NA	
Total Xylenes	50,000			NA					NA	
1.4-Dichlorobenzene	8,000	*		NA					NA	
Tetrachloroethene	5,000			NA					NA	
Trichloroethene	20,000			NA					NA	
Chloroform	10,000			NA					NA	
Chloromethane	NAV			NA					NA	
Vinyl Chloride	40,000			NA					NA	
Chloroethane	NAV			NA					NA	
Bromodichloromethane	50,000			NA					NA	
Styrene	100,000			NA					NA	
1,1,2,2-Tetrachloroethane	20,000			NA					NA	
1,1,2-Trichloroethane	50,000			NA					NA	
2-Butanone	50,000			NA					NA	
Total BTEX (µg/L)	NAV			NA		0.6			NA	
Tentatively Identified Compounds (µg/L)										
Unknown	NAV			NA		*			NA	
Unknown Hydrocarbon	NAV			NA		*			NA	
Unknown Cyclic Hydrocarbon	NAV			NA		*			NA	
Total TICs (µg/L)	NAV	BDL		NA		*			NA	

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-405					WMW-406					
SAMPLE DATE	Method 1	12/04/89	01/28/93	03/07/94	09/21/94	7/14/95	12/05/89	05/19/92	05/19/92	03/04/94	09/23/94	7/14/95
ANALYSIS	GW-3	8020	8240	8240	8240	8240	8020	8240	8240	8240	8240	8240
NOTES									Duplicate (WMW-903)			
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000											
2-Hexanone	NAV											
Acetone	50,000	*					*					
Benzene	7,000											
Carbon Disulfide	NAV											
Ethylbenzene	4,000			40		21		330	470	84	110	55
Methylene Chloride	50,000	*	7.9 B				*	40				
4-Methyl-2-pentanone	50,000	*					*					
Toluene	50,000	0.5 J					140			25		
Total Xylenes	50,000		10	34			18	1,700	2,600	400	490	290
1.4-Dichlorobenzene	8,000											
Tetrachloroethene	5,000											
Trichloroethene	20,000											
Chloroform	10,000											
Chloromethane	NAV											
Vinyl Chloride	40,000											
Chloroethane	NAV											
Bromodichloromethane	50,000											
Styrene	100,000											
1,1,2,2-Tetrachloroethane	20,000											
1,1,2-Trichloroethane	50,000											
2-Butanone	50,000											
Total BTEX (µg/L)	NAV	0.5	10	74		21	158	2,030	3,070	509	600	345
Tentatively Identified Compounds (µg/L)												
Unknown	NAV	*				9J	*					
Unknown Hydrocarbon	NAV	*					*				2,450	
Unknown Cyclic Hydrocarbon	NAV	*					*					
Total TICs (µg/L)	NAV	*				115	*	*	*		2,450	1229

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-406I					WMW-407I			
SAMPLE DATE	Method 1	05/19/92	03/04/94	03/04/94	09/23/94	7/14/95	05/19/92	03/04/94	09/23/94	07/14/95
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8240	8240	8240
NOTES				Duplicate (WMW-930)						
Volatile Organic Compounds (VOCs) µg/L										
1,2-Dichloroethane	50,000									
2-Hexanone	NAV									
Acetone	50,000						11			
Benzene	7,000									
Carbon Disulfide	NAV									
Ethylbenzene	4,000	1,100	810	850	840	760			3 J	1 J
Methylene Chloride	50,000						7			
4-Methyl-2-pentanone	50,000									
Toluene	50,000				82				3 J	
Total Xylenes	50,000	5,400	4,000	4,100	4,000	3500				
1.4-Dichlorobenzene	8,000									
Tetrachloroethene	5,000									
Trichloroethene	20,000									
Chloroform	10,000									
Chloromethane	NAV									
Vinyl Chloride	40,000									
Chloroethane	NAV									
Bromodichloromethane	50,000									
Styrene	100,000									
1,1,2,2-Tetrachloroethane	20,000									
1,1,2-Trichloroethane	50,000									
2-Butanone	50,000									
Total BTEX (µg/L)	NAV	6,500	4,810	4,950	4,922	4260			6	1
Tentatively Identified Compounds (µg/L)										
Unknown	NAV				98 J					8 J
Unknown Hydrocarbon	NAV				3,900 J				45 J	
Unknown Cyclic Hydrocarbon	NAV								6 J	
Total TICs (µg/L)	NAV	*			3,998	3550	*		51 J	54

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-408I		WMW-409I			WMW-410D		
SAMPLE DATE	Method 1	04/14/92	03/94	03/04/94	09/22/94	7/14/95	03/04/94	09/22/94	7/14/95
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8240	8240
NOTES			Damaged						
Volatile Organic Compounds (VOCs) µg/L									
1,2-Dichloroethane	50,000		NA						
2-Hexanone	NAV		NA						
Acetone	50,000		NA	30					
Benzene	7,000		NA				18		72
Carbon Disulfide	NAV		NA						
Ethylbenzene	4,000		NA	21	22	9	120	42	420
Methylene Chloride	50,000	8	NA						
4-Methyl-2-pentanone	50,000		NA						
Toluene	50,000		NA				58		490
Total Xylenes	50,000		NA	130	150	58	370	120	2,000
1.4-Dichlorobenzene	8,000		NA						
Tetrachloroethene	5,000		NA						
Trichloroethene	20,000		NA						
Chloroform	10,000		NA	6					
Chloromethane	NAV		NA						
Vinyl Chloride	40,000		NA						
Chloroethane	NAV		NA						
Bromodichloromethane	50,000		NA						
Styrene	100,000		NA						
1,1,2,2-Tetrachloroethane	20,000		NA						
1,1,2-Trichloroethane	50,000		NA						
2-Butanone	50,000		NA						
Total BTEX (µg/L)	NAV		NA	151	172	67	566	162	2,892
Tentatively Identified Compounds (µg/L)									
Unknown	NAV		NA					24 J	
Unknown Hydrocarbon	NAV		NA		950 J			630 J	
Unknown Cyclic Hydrocarbon	NAV		NA		50 J			26 J	
Total TICs (µg/L)	NAV	*	NA		1,000	975		680	3,437

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-5D						WMW-501				
SAMPLE DATE	Method 1	05/20/92	01/28/93	03/11/94	9/21/94	7/13/95	7/09/96	02/07/89	05/19/92	03/07/94	09/22/94	7/14/95
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8260	8240	8240	8240	8240	8240
NOTES												
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000											
2-Hexanone	NAV											
Acetone	50,000	93	39 J		22			460 JB			3 J	
Benzene	7,000	6	3.6			1 J						2 J
Carbon Disulfide	NAV											
Ethylbenzene	4,000	13	97	210	17		160	920	260	790	310	150
Methylene Chloride	50,000		10 B						120			
4-Methyl-2-pentanone	50,000											
Toluene	50,000							6,300	540	1,600	490	160
Total Xylenes	50,000				34			4,600	1,000	3,800	1,300	360
1.4-Dichlorobenzene	8,000							*				
Tetrachloroethene	5,000											
Trichloroethene	20,000	14	31		22	3 J	8					
Chloroform	10,000											
Chloromethane	NAV											
Vinyl Chloride	40,000											
Chloroethane	NAV											
Bromodichloromethane	50,000											
Styrene	100,000											
1,1,2,2-Tetrachloroethane	20,000											
1,1,2-Trichloroethane	50,000											
2-Butanone	50,000											
Total BTEX (µg/L)	NAV	19	100.6	210	51	1	160	11,820	1,800	6,190	2,100	672
Tentatively Identified Compounds (µg/L)												
Unknown	NAV				30 J							47 J
Unknown Hydrocarbon	NAV										2,090 J	
Unknown Cyclic Hydrocarbon	NAV											
Total TICs (µg/L)	NAV	*			231	223	406		*		2,090	531

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-502						WMW-503				
SAMPLE DATE	Method 1	12/07/89	05/19/92	05/19/92	03/11/94	09/22/94	7/14/95	12/07/89	01/28/93	03/11/94	09/23/94	7/14/95
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240
NOTES				Duplicate (WMW-904)								
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000											
2-Hexanone	NAV											
Acetone	50,000							460 J				
Benzene	7,000	60	60			980	51	1,800	630	750	180	630
Carbon Disulfide	NAV											
Ethylbenzene	4,000	10 J	360	360	310	630	370	1,000	830	1,300	790	1,300
Methylene Chloride	50,000							690 B				
4-Methyl-2-pentanone	50,000											
Toluene	50,000	170						13,000	7,500	11,000	3,500	13,000
Total Xylenes	50,000	1,190	2,000	2,000	1,300	2,800	1500	6,500	4,330	5,800	4,600	6,700
1.4-Dichlorobenzene	8,000	*						*				
Tetrachloroethene	5,000											
Trichloroethene	20,000											
Chloroform	10,000											
Chloromethane	NAV											
Vinyl Chloride	40,000											
Chloroethane	NAV											
Bromodichloromethane	50,000											
Styrene	100,000											
1,1,2,2-Tetrachloroethane	20,000											
1,1,2-Trichloroethane	50,000											
2-Butanone	50,000											
Total BTEX (µg/L)	NAV	1,420	2,420	2,360	1,610	4,430	1921	22,300	13,290	18,850	9,070	21,630
Tentatively Identified Compounds (µg/L)												
Unknown	NAV	120 J				360 J					320 J	340 J
Unknown Hydrocarbon	NAV	290 J				1,700 J					1,900 J	
Unknown Cyclic Hydrocarbon	NAV	100 J										
Total TICs (µg/L)	NAV	510	*	*		2,060	1,715				2,220	3,930

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-504						WMW-505				
SAMPLE DATE	Method 1	12/05/89	05/18/92	03/07/94	03/07/94	09/22/94	7/14/95	12/05/89	01/28/94	03/11/94	09/21/94	7/13/95
ANALYSIS	GW-3	8020	8240	8240	8240	8240	8240	8020	8240	8240	8240	8240
NOTES					Duplicate (WMW-937)							
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000											
2-Hexanone	NAV											
Acetone	50,000	*						*				
Benzene	7,000											
Carbon Disulfide	NAV											
Ethylbenzene	4,000		850	1,800	1,600	1,200	930					
Methylene Chloride	50,000	*						*	8.2 B			
4-Methyl-2-pentanone	50,000	*						*				
Toluene	50,000	1,700	740	2,000	860	340 J						
Total Xylenes	50,000	4,100	4,500	9,100	7,900	5,200	5,400					
1.4-Dichlorobenzene	8,000							*				
Tetrachloroethene	5,000											
Trichloroethene	20,000											
Chloroform	10,000											
Chloromethane	NAV											
Vinyl Chloride	40,000											
Chloroethane	NAV											
Bromodichloromethane	50,000											
Styrene	100,000											
1,1,2,2-Tetrachloroethane	20,000											
1,1,2-Trichloroethane	50,000											
2-Butanone	50,000											
Total BTEX (µg/L)	NAV	5,800	6,090	12,900	10,360	6,400	6,330					
Tentatively Identified Compounds (µg/L)												
Unknown	NAV	*				590 J	600 J	*				
Unknown Hydrocarbon	NAV	*				1,910 J		*				
Unknown Cyclic Hydrocarbon	NAV	*						*				
Total TICs (µg/L)	NAV	*	*			2,500	4,180	*				

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-506					WMW-506I			
SAMPLE DATE	Method 1	12/05/89	01/28/93	03/11/94	09/94	7/13/95	05/18/92	03/11/94	09/22/94	7/13/95
ANALYSIS	GW-3	8020	8240	8240	8240	8240	8020	8240	8240	8240
NOTES										
Volatile Organic Compounds (VOCs) µg/L										
1,2-Dichloroethane	50,000				NA					
2-Hexanone	NAV				NA					
Acetone	50,000	*			NA				130 J	140
Benzene	7,000				NA					13 J
Carbon Disulfide	NAV				NA					
Ethylbenzene	4,000	1.1		12	NA		480	1,000	1,000	610
Methylene Chloride	50,000	*	7.9 B		NA					
4-Methyl-2-pentanone	50,000	*			NA					
Toluene	50,000	0.5 J			NA		220	330	310	
Total Xylenes	50,000	0.8 J		32	NA		2,100	4,400	4,500	3,400
1.4-Dichlorobenzene	8,000	*			NA					
Tetrachloroethene	5,000				NA					
Trichloroethene	20,000				NA					
Chloroform	10,000				NA					
Chloromethane	NAV				NA					
Vinyl Chloride	40,000				NA					
Chloroethane	NAV				NA					
Bromodichloromethane	50,000				NA					
Styrene	100,000				NA					
1,1,2,2-Tetrachloroethane	20,000				NA					
1,1,2-Trichloroethane	50,000				NA					
2-Butanone	50,000				NA					
Total BTEX (µg/L)	NAV	1.1		44	NA		2,800	5,730	5,810	4,023
Tentatively Identified Compounds (µg/L)										
Unknown	NAV	*			NA					230 J
Unknown Hydrocarbon	NAV	*			NA				4,500 J	
Unknown Cyclic Hydrocarbon	NAV	*			NA					
Total TICs (µg/L)	NAV	*			NA		*		4,500	3,082

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-507				WMW-508				WMW-509D		
SAMPLE DATE	Method 1	05/19/92	09/94	7/13/95	7/13/95	05/19/92	03/07/94	09/94	7/13/95	05/19/92	03/07/94	09/94
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240
NOTES					Duplicate							Damaged
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000		NA					NA				NA
2-Hexanone	NAV		NA					NA				NA
Acetone	50,000	11	NA	1 J				NA				NA
Benzene	7,000		NA					NA		22		NA
Carbon Disulfide	NAV		NA					NA				NA
Ethylbenzene	4,000		NA					NA				NA
Methylene Chloride	50,000	13	NA			11		NA				NA
4-Methyl-2-pentanone	50,000		NA					NA				NA
Toluene	50,000		NA					NA				NA
Total Xylenes	50,000		NA		6 J			NA				NA
1.4-Dichlorobenzene	8,000		NA					NA				NA
Tetrachloroethene	5,000		NA					NA				NA
Trichloroethene	20,000		NA					NA				NA
Chloroform	10,000		NA					NA				NA
Chloromethane	NAV		NA					NA				NA
Vinyl Chloride	40,000		NA					NA				NA
Chloroethane	NAV		NA					NA				NA
Bromodichloromethane	50,000		NA					NA				NA
Styrene	100,000		NA					NA				NA
1,1,2,2-Tetrachloroethane	20,000		NA					NA				NA
1,1,2-Trichloroethane	50,000		NA					NA				NA
2-Butanone	50,000		NA					NA				NA
Total BTEX (µg/L)	NAV		NA		6 J			NA		22		NA
Tentatively Identified Compounds (µg/L)												
Unknown	NAV		NA					NA				NA
Unknown Hydrocarbon	NAV		NA					NA				NA
Unknown Cyclic Hydrocarbon	NAV		NA					NA				NA
Total TICs (µg/L)	NAV	*	NA			*		NA		*		NA

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-510I			WMW-601			
SAMPLE DATE	Method 1	03/07/94	09/94	7/13/95	02/07/89	03/08/94	09/94	7/12/95
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8240
NOTES			Damaged					
Volatile Organic Compounds (VOCs) µg/L								
1,2-Dichloroethane	50,000		NA				NA	
2-Hexanone	NAV		NA				NA	
Acetone	50,000		NA		7.0 J		NA	
Benzene	7,000		NA	5			NA	
Carbon Disulfide	NAV		NA				NA	
Ethylbenzene	4,000	11	NA	16			NA	
Methylene Chloride	50,000		NA				NA	
4-Methyl-2-pentanone	50,000		NA				NA	
Toluene	50,000		NA		1.0 J		NA	
Total Xylenes	50,000	14	NA		5.0 J		NA	2 J
1.4-Dichlorobenzene	8,000		NA		*		NA	
Tetrachloroethene	5,000		NA				NA	
Trichloroethene	20,000		NA				NA	
Chloroform	10,000		NA				NA	
Chloromethane	NAV		NA				NA	
Vinyl Chloride	40,000		NA				NA	
Chloroethane	NAV		NA				NA	
Bromodichloromethane	50,000		NA				NA	
Styrene	100,000		NA				NA	
1,1,2,2-Tetrachloroethane	20,000		NA				NA	
1,1,2-Trichloroethane	50,000		NA				NA	
2-Butanone	50,000		NA				NA	
Total BTEX (µg/L)	NAV	25	NA	21	6.0 J		NA	2 J
Tentatively Identified Compounds (µg/L)								
Unknown	NAV		NA				NA	
Unknown Hydrocarbon	NAV		NA				NA	
Unknown Cyclic Hydrocarbon	NAV		NA				NA	
Total TICs (µg/L)	NAV		NA	143			NA	

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-701						MW-702				
SAMPLE DATE	Method 1	05/19/92	04/22/94	04/22/94	09/23/94	7/15/95	7/11/96	05/19/92	04/22/94	09/94	7/15/95	7/11/96
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8240	8240	8240	8240	8240	8260
NOTES				Duplicate								
Volatile Organic Compounds (VOCs) µg/L												
1,2-Dichloroethane	50,000					10 J			1.0J	NA		
2-Hexanone	NAV			70					1.0J	NA		
Acetone	50,000									NA		
Benzene	7,000									NA		
Carbon Disulfide	NAV									NA		
Ethylbenzene	4,000	1,000	1,300	1,100	410	1,400	980			NA		
Methylene Chloride	50,000									NA		
4-Methyl-2-pentanone	50,000									NA		
Toluene	50,000	5,400	5,300	3,900	880	3,400	1,800			NA		
Total Xylenes	50,000	4,800	5,700	5,500	1,800	5,400	4,300			NA		
1.4-Dichlorobenzene	8,000									NA		
Tetrachloroethene	5,000									NA		
Trichloroethene	20,000									NA		
Chloroform	10,000									NA		
Chloromethane	NAV									NA		
Vinyl Chloride	40,000									NA		
Chloroethane	NAV									NA		
Bromodichloromethane	50,000									NA		
Styrene	100,000									NA		
1,1,2,2-Tetrachloroethane	20,000									NA		
1,1,2-Trichloroethane	50,000									NA		
2-Butanone	50,000		5.0J							NA		
Total BTEX (µg/L)	NAV	11,200	12,300	10,500	3,090	10,200	7,080			NA		
Tentatively Identified Compounds (µg/L)												
Unknown	NAV		4,000J	4,600J	380 J		610 J			NA		8 J
Unknown Hydrocarbon	NAV		1,680J	360 J	3,270 J					NA		
Unknown Cyclic Hydrocarbon	NAV			340JN						NA		
Total TICs (µg/L)	NAV	*	5,860	5,300	3,650	22,000	9,750	*		NA		249

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-704					
SAMPLE DATE	Method 1	05/19/92	04/22/94	09/23/94	7/11/95	7/11/95	7/11/96
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8260
NOTES						Duplicate	
Volatile Organic Compounds (VOCs) µg/L							
1,2-Dichloroethane	50,000		10J				
2-Hexanone	NAV						
Acetone	50,000		240				
Benzene	7,000		110	310	570 J	370 J	94
Carbon Disulfide	NAV						
Ethylbenzene	4,000	970	440	1,700	1,700	2,000	850
Methylene Chloride	50,000						
4-Methyl-2-pentanone	50,000						
Toluene	50,000	1,300	870	4,200	6,100	5,900	1,600
Total Xylenes	50,000	3,000	1,400	5,900	7,100	8,300	2,900
1.4-Dichlorobenzene	8,000						
Tetrachloroethene	5,000						
Trichloroethene	20,000						
Chloroform	10,000						
Chloromethane	NAV						
Vinyl Chloride	40,000						
Chloroethane	NAV						
Bromodichloromethane	50,000						
Styrene	100,000						
1,1,2,2-Tetrachloroethane	20,000						
1,1,2-Trichloroethane	50,000						
2-Butanone	50,000						160
Total BTEX (µg/L)	NAV	5,270	2,820	12,110	16,770	15,270	5,444
Tentatively Identified Compounds (µg/L)							
Unknown	NAV		2,800J	870 J	3,900 J	2,900 J	
Unknown Hydrocarbon	NAV		6,320J	8,410 J			
Unknown Cyclic Hydrocarbon	NAV						
Total TICs (µg/L)	NAV	*	9,120	9,280	13,330	19,550	5,770

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-707						WMW-708	WMW-709	WMW-710	WMW-711
SAMPLE DATE	Method 1	04/22/94	05/19/94	09/23/94	09/23/94	7/15/95	7/11/96	7/11/96	7/11/96	7/11/96	7/17/96
ANALYSIS	GW-3	8240	8240	8240	8240	8240	8260	8260	8260	8260	8260
NOTES					Duplicate						
Volatile Organic Compounds (VOCs) µg/L											
1,2-Dichloroethane	50,000										
2-Hexanone	NAV										
Acetone	50,000	260							160 J		9 J
Benzene	7,000	270	380	54	52	220			2,000	1,000	
Carbon Disulfide	NAV										
Ethylbenzene	4,000	360	750	140	110	680		1,300	1,400	1,200	300
Methylene Chloride	50,000										
4-Methyl-2-pentanone	50,000										
Toluene	50,000	920	1,800	230	210	1,300		2,000	8,500	9,900	
Total Xylenes	50,000	2,100	3,700	550	550	2,900		5,400	6,000	4,700	820
1.4-Dichlorobenzene	8,000										
Tetrachloroethene	5,000										
Trichloroethene	20,000										
Chloroform	10,000										
Chloromethane	NAV										
Vinyl Chloride	40,000										
Chloroethane	NAV										
Bromodichloromethane	50,000										
Styrene	100,000										
1,1,2,2-Tetrachloroethane	20,000										
1,1,2-Trichloroethane	50,000										
2-Butanone	50,000	180							200 J		
Total BTEX (µg/L)	NAV	3,650	6,630	974	922	5,100		8,700	17,900	16,800	1,120
Tentatively Identified Compounds (µg/L)											
Unknown	NAV	3,000J		140 J	67 J						
Unknown Hydrocarbon	NAV	320J		846 J	837 J						
Unknown Cyclic Hydrocarbon	NAV			128 J							
Total TICs (µg/L)	NAV	3,320J	*	1,114	904	3,920	3,171	2,659	10,360	3,200	

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-711	WMW-712	WMW-713	WMW-714	WMW-715	WMW-716	WL23	WL24
SAMPLE DATE	Method 1	7/17/96	7/11/96	7/10/96	7/10/96	7/17/96	7/10/96	12/05/89	12/05/89
ANALYSIS	GW-3	8260	8260	8260	8260	8260	8260	8020	8020
NOTES		Duplicate							
Volatile Organic Compounds (VOCs) µg/L									
1,2-Dichloroethane	50,000								
2-Hexanone	NAV								
Acetone	50,000	18 J				2 J		*	*
Benzene	7,000								
Carbon Disulfide	NAV								
Ethylbenzene	4,000	510	1,000						
Methylene Chloride	50,000							*	*
4-Methyl-2-pentanone	50,000							*	*
Toluene	50,000								0.5 J
Total Xylenes	50,000	1,700	4,900				950		
1.4-Dichlorobenzene	8,000								
Tetrachloroethene	5,000				0.8 J	0.6 J			
Trichloroethene	20,000					0.6 J			
Chloroform	10,000				4.0		4		
Chloromethane	NAV				19				
Vinyl Chloride	40,000				2				
Chloroethane	NAV				2				
Bromodichloromethane	50,000				0.9 J				
Styrene	100,000								
1,1,2,2-Tetrachloroethane	20,000				1				
1,1,2-Trichloroethane	50,000						0.5 J		
2-Butanone	50,000								
Total BTEX (µg/L)	NAV	2,210	5,900				950		
Tentatively Identified Compounds (µg/L)									
Unknown	NAV				18 J			*	*
Unknown Hydrocarbon	NAV							*	*
Unknown Cyclic Hydrocarbon	NAV							*	*
Total TICs (µg/L)	NAV		1,000	299	91		631	*	*

TABLE 3-4
VOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

Notes:

1. 1989 laboratory analyses were performed by Weston Analytics Division of Roy F. Weston; 1992 and Round I 1994 analyses performed by Ceimic Corporation. 1993 analyses performed by ACOE Laboratory. 1994 Round II analyses performed by PACE Laboratories. 1995 Round I analyses performed by Pace Laboratories. 1996 Round II analyses performed by Katahdin Laboratories.
2. Samples were analyzed for volatile organic compounds by either USEPA Method 8240, USEPA Method 8020, or USEPA Method 8260.
3. A blank space indicates that the compound is not detected above the detection limits. Individual detection limits are listed on the laboratory data sheets. 1994 data sheets are included in the Appendix.
4. A "*" indicates that the analytical method does not include analysis for this compound.
5. A "J" following the value indicates an estimate of a compound that is present below the detection limit (BDL); a "B" following the value indicates that the compound is present in the method blank as well as the sample.
6. Values for Tentatively Identified Compounds (TICs) are estimates and represent totals for each type of TIC listed on the analytical data sheet.
7. Total benzene, toluene, ethylbenzene, and xylene (BTEX) do not include compounds that are qualified with a "J" or "B".
8. Monitoring wells WMW-401 and WMW-402 replaced in May 1992 with WMW-401R and WMW-402R, respectively.
9. Concentrations are presented relative to the Massachusetts Contingency Plan (MCP) Method 1 GW-3 Groundwater standards (310 CMR 40.0974(2). Compounds detected at concentrations greater than the current standard are shaded.
10. NAV indicates that the value is not provided in the MCP Table of Standards.

μ/L = micrograms per liter

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-101	WMW-2D	WMW-201			WMW-202		
SAMPLE DATE	Method 1	02/06/89	05/18/92	03/08/94	03/08/94	7/15/95	03/08/94	7/15/95	7/15/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270	8270
NOTES					Duplicate (WMW-940)				Duplicate
	(µg/L)								
Semivolatile Organic Compounds (SVOCs)									
(µg/L)									
Acenaphthene	2000					1 J			
Anthracene	600					1 J			
Benzo(b)fluoranthene	7								
Benzyl Alcohol	NAV								
Bis(2-ethylhexyl)phthalate	30			470				350	280
Carbozole	NAV								
Dibenzofuran	NAV					1 J		2 J	1 J
2,4-Dichlorophenol	4000								
Diethylphthalate	30								
2,4-Dimethylphenol	20,000							50 J	
Dimethylphthalate	30								
Di-n-octylphthalate	NAV								
Fluoranthene	100					1 J			
Fluorene	1000					2 J		3 J	2 J
Hexachloroethane	5,000								
2-Methylnaphthalene	3,000				37	11	110	99 J	50 J
2-Methylphenol	NAV							16 J	26 J
4-Methylphenol	NAV					2 J		20 J	31 J
Naphthalene	6,000			140	140	14	130	190 J	100 J
n-Nitrosodiphenylamine	NAV								
Phenanthrene	50					4 J			1 J
Phenol	30,000								
Pyrene	80					1 J			
Tentatively Identified Compounds (µg/L)									
Unknown	NAV					22 J		240 J	52 J
Unknown Hydrocarbon	NAV								
Unknown Cyclic Hydrocarbon	NAV								
Total TICs (µg/L)	NAV					167		7,140	6,474

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-204					WMW-205B		
SAMPLE DATE	Method 1	02/08/89	05/18/92	05/18/92	03/08/94	07/15/95	05/18/92	03/08/94	07/15/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270	8270
NOTES				Duplicate (WMW-901)					
	(µg/L)								
Semivolatile Organic Compounds (SVOCs)									
(µg/L)									
Acenaphthene	2000								
Anthracene	600								
Benzo(b)fluoranthene	7								
Benzyl Alcohol	NAV								
Bis(2-ethylhexyl)phthalate	30								
Carbozole	NAV								
Dibenzofuran	NAV								
2,4-Dichlorophenol	4000								
Diethylphthalate	30								
2,4-Dimethylphenol	20,000	8.0 JB				24			
Dimethylphthalate	30								
Di-n-octylphthalate	NAV								
Fluoranthene	100								
Fluorene	1000								
Hexachloroethane	5,000	28							
2-Methylnaphthalene	3,000	130			38	29	25		
2-Methylphenol	NAV	6.0 J			24	21			
4-Methylphenol	NAV	57				60			
Naphthalene	6,000	220			93	75	40		
n-Nitrosodiphenylamine	NAV	3.0 J							
Phenanthrene	50								
Phenol	30,000	5.0 J				2 J			
Pyrene	80								
Tentatively Identified Compounds (µg/L)									
Unknown	NAV					35 J			230 J
Unknown Hydrocarbon	NAV	600 J							
Unknown Cyclic Hydrocarbon	NAV	2,400 J							
Total TICs (µg/L)	NAV	3,000				932			327

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-206I			WMW-207		WMW-208I		WMW-213I
SAMPLE DATE	Method 1	05/18/92	03/11/94	07/12/95	05/18/92	03/08/94	03/08/94	07/11/95	07/12/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270	8270
NOTES	(µg/L)								
Semivolatile Organic Compounds (SVOCs)									
(µg/L)									
Acenaphthene	2000								
Anthracene	600								
Benzo(b)fluoranthene	7								
Benzyl Alcohol	NAV								
Bis(2-ethylhexyl)phthalate	30								
Carbozole	NAV								
Dibenzofuran	NAV							1 J	
2,4-Dichlorophenol	4000			16					
Diethylphthalate	30								
2,4-Dimethylphenol	20,000							1 J	
Dimethylphthalate	30								
Di-n-octylphthalate	NAV								
Fluoranthene	100								
Fluorene	1000								
Hexachloroethane	5,000								
2-Methylnaphthalene	3,000	67	18	19				19	4 J
2-Methylphenol	NAV								
4-Methylphenol	NAV			8 J					
Naphthalene	6,000	140	49	47			26	52	17
n-Nitrosodiphenylamine	NAV								
Phenanthrene	50						1 J		
Phenol	30,000								
Pyrene	80								
Tentatively Identified Compounds (µg/L)									
Unknown	NAV							27 J	14 J
Unknown Hydrocarbon	NAV								
Unknown Cyclic Hydrocarbon	NAV								
Total TICs (µg/L)	NAV			879				460	33

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-214I			WMW-215	WMW-216	WMW-217	WMW-217
SAMPLE DATE	Method 1	05/18/92	03/09/94	07/12/95	07/09/96	07/09/96	07/10/96	07/10/96
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270
NOTES								Duplicate
	(µg/L)							
Semivolatile Organic Compounds (SVOCs)								
(µg/L)								
Acenaphthene	2000						8 J	9 J
Anthracene	600							
Benzo(b)fluoranthene	7							
Benzyl Alcohol	NAV							
Bis(2-ethylhexyl)phthalate	30	14	13					
Carbozole	NAV					19	36	32
Dibenzofuran	NAV						7J	8 J
2,4-Dichlorophenol	4000							
Diethylphthalate	30							
2,4-Dimethylphenol	20,000							
Dimethylphthalate	30							
Di-n-octylphthalate	NAV							
Fluoranthene	100						6 J	6 J
Fluorene	1000						9 J	10 J
Hexachloroethane	5,000							
2-Methylnaphthalene	3,000				100	82	86	94
2-Methylphenol	NAV							
4-Methylphenol	NAV				130	81	85	97
Naphthalene	6,000				260	220	95	110
n-Nitrosodiphenylamine	NAV							
Phenanthrene	50						19	19
Phenol	30,000				9 J			
Pyrene	80							
Tentatively Identified Compounds (µg/L)								
Unknown	NAV			24 J	130 J		55 J	55 J
Unknown Hydrocarbon	NAV							
Unknown Cyclic Hydrocarbon	NAV							
Total TICs (µg/L)	NAV			29	1,650	3,390	1,935	1,835

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-301			WMW-303		
SAMPLE DATE	Method 1	05/19/92	07/13/95	07/13/95	05/19/92	03/09/94	07/13/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270
NOTES				Duplicate			
	(µg/L)						
Semivolatile Organic Compounds (SVOCs)							
(µg/L)							
Acenaphthene	2000						
Anthracene	600						
Benzo(b)fluoranthene	7						
Benzyl Alcohol	NAV						
Bis(2-ethylhexyl)phthalate	30						
Carbozole	NAV						
Dibenzofuran	NAV						
2,4-Dichlorophenol	4000						
Diethylphthalate	30						
2,4-Dimethylphenol	20,000		7 J	8 J			4 J
Dimethylphthalate	30						
Di-n-octylphthalate	NAV						
Fluoranthene	100						
Fluorene	1000						
Hexachloroethane	5,000						
2-Methylnaphthalene	3,000	36			21	68	
2-Methylphenol	NAV						
4-Methylphenol	NAV		2 J	1 J			9 J
Naphthalene	6,000	62			36	96	
n-Nitrosodiphenylamine	NAV						
Phenanthrene	50						
Phenol	30,000						
Pyrene	80						
Tentatively Identified Compounds (µg/L)							
Unknown	NAV		43 J				460 J
Unknown Hydrocarbon	NAV						
Unknown Cyclic Hydrocarbon	NAV						
Total TICs (µg/L)	NAV		651	598			792

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-303			WMW-304A		WMW-305I		
SAMPLE DATE	Method 1	02/06/89	03/09/94	07/12/95	05/20/92	05/20/92	05/20/92	03/09/94	07/12/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270	8270
NOTES						Duplicate (WMW-902)			
	(µg/L)								
Semivolatile Organic Compounds (SVOCs)									
(µg/L)									
Acenaphthene	2000								
Anthracene	600								
Benzo(b)fluoranthene	7								
Benzyl Alcohol	NAV								
Bis(2-ethylhexyl)phthalate	30								
Carbozole	NAV								
Dibenzofuran	NAV								
2,4-Dichlorophenol	4000								
Diethylphthalate	30								
2,4-Dimethylphenol	20,000	4.0 J							
Dimethylphthalate	30								
Di-n-octylphthalate	NAV								
Fluoranthene	100								
Fluorene	1000								
Hexachloroethane	5,000								
2-Methylnaphthalene	3,000		34	16				11	10
2-Methylphenol	NAV								
4-Methylphenol	NAV								
Naphthalene	6,000	2.0 J	19	12					
n-Nitrosodiphenylamine	NAV								
Phenanthrene	50								
Phenol	30,000								
Pyrene	80								
Tentatively Identified Compounds (µg/L)									
Unknown	NAV								
Unknown Hydrocarbon	NAV	50 J							
Unknown Cyclic Hydrocarbon	NAV	800 J							
Total TICs (µg/L)	NAV	850		448					198

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-306		WMW-307	WMW-308I	WMW-401
SAMPLE DATE	Method 1	03/11/94	07/13/95	05/20/92	05/20/92	03/04/94
ANALYSIS	GW-3	8270	8270	8270	8270	8270
NOTES	(µg/L)					
Semivolatile Organic Compounds (SVOCs)						
(µg/L)						
Acenaphthene	2000					
Anthracene	600					
Benzo(b)fluoranthene	7					
Benzyl Alcohol	NAV					
Bis(2-ethylhexyl)phthalate	30		1 J			
Carbozole	NAV					
Dibenzofuran	NAV					
2,4-Dichlorophenol	4000					
Diethylphthalate	30					
2,4-Dimethylphenol	20,000					
Dimethylphthalate	30					
Di-n-octylphthalate	NAV					
Fluoranthene	100					
Fluorene	1000					
Hexachloroethane	5,000					
2-Methylnaphthalene	3,000	14	3 J			
2-Methylphenol	NAV					
4-Methylphenol	NAV					
Naphthalene	6,000	30				
n-Nitrosodiphenylamine	NAV					
Phenanthrene	50					
Phenol	30,000					
Pyrene	80					
Tentatively Identified Compounds (µg/L)						
Unknown	NAV					
Unknown Hydrocarbon	NAV					
Unknown Cyclic Hydrocarbon	NAV					
Total TICs (µg/L)	NAV					

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-402				WMW-406			
SAMPLE DATE	Method 1	02/07/89	05/19/92	03/04/94	07/14/95	05/19/92	05/19/92	03/04/94	07/14/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270	8270
NOTES							Duplicate (WMW-903)		
	(µg/L)								
Semivolatile Organic Compounds (SVOCs)									
(µg/L)									
Acenaphthene	2000				2 J				
Anthracene	600								
Benzo(b)fluoranthene	7								
Benzyl Alcohol	NAV								
Bis(2-ethylhexyl)phthalate	30				8 J				2 J
Carbozole	NAV								
Dibenzofuran	NAV								
2,4-Dichlorophenol	4000								
Diethylphthalate	30								
2,4-Dimethylphenol	20,000	7.0 J							
Dimethylphthalate	30								
Di-n-octylphthalate	NAV								
Fluoranthene	100								
Fluorene	1000				1 J				
Hexachloroethane	5,000								
2-Methylnaphthalene	3,000	130	53	500	6 J	31	30	42	
2-Methylphenol	NAV		11						
4-Methylphenol	NAV	8.0 J			5 J				3 J
Naphthalene	6,000	240	130*	360	6 J	72	72	40	
n-Nitrosodiphenylamine	NAV								
Phenanthrene	50								
Phenol	30,000								
Pyrene	80								
Tentatively Identified Compounds (µg/L)									
Unknown	NAV	3,600 J							16 J
Unknown Hydrocarbon	NAV								
Unknown Cyclic Hydrocarbon	NAV								
Total TICs (µg/L)	NAV	3,600			7,630				733

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-406I			
SAMPLE DATE	Method 1	05/19/92	03/04/94	03/04/94	07/14/95
ANALYSIS	GW-3	8270	8270	8270	8270
NOTES	(µg/L)			Duplicate (WMW-930)	
Semivolatile Organic Compounds (SVOCs)					
(µg/L)					
Acenaphthene	2000				1 J
Anthracene	600				
Benzo(b)fluoranthene	7				
Benzyl Alcohol	NAV				
Bis(2-ethylhexyl)phthalate	30		39		5 J
Carbozole	NAV				
Dibenzofuran	NAV				1 J
2,4-Dichlorophenol	4000				
Diethylphthalate	30				
2,4-Dimethylphenol	20,000				
Dimethylphthalate	30				
Di-n-octylphthalate	NAV				
Fluoranthene	100				
Fluorene	1000				1 J
Hexachloroethane	5,000				
2-Methylnaphthalene	3,000	27	24	30	67
2-Methylphenol	NAV				
4-Methylphenol	NAV				1 J
Naphthalene	6,000	68	43	54	100
n-Nitrosodiphenylamine	NAV				
Phenanthrene	50				1 J
Phenol	30,000				
Pyrene	80				
Tentatively Identified Compounds (µg/L)					
Unknown	NAV				
Unknown Hydrocarbon	NAV				
Unknown Cyclic Hydrocarbon	NAV				
Total TICs (µg/L)	NAV				1,839

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-407I		WMW-408I	WMW-409I	WMW-410	
SAMPLE DATE	Method 1	05/19/92	03/04/94	03/04/94	07/14/95	03/04/94	07/14/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270
NOTES	(µg/L)						
Semivolatile Organic Compounds (SVOCs)							
(µg/L)							
Acenaphthene	2000						1 J
Anthracene	600						
Benzo(b)fluoranthene	7						
Benzyl Alcohol	NAV						
Bis(2-ethylhexyl)phthalate	30				4 J		2 J
Carbozole	NAV						
Dibenzofuran	NAV						
2,4-Dichlorophenol	4000						4 J
Diethylphthalate	30						
2,4-Dimethylphenol	20,000						
Dimethylphthalate	30						
Di-n-octylphthalate	NAV						
Fluoranthene	100						
Fluorene	1000						
Hexachloroethane	5,000						
2-Methylnaphthalene	3,000			25	6 J	40	82
2-Methylphenol	NAV						
4-Methylphenol	NAV						2 J
Naphthalene	6,000				3 J	27	61
n-Nitrosodiphenylamine	NAV						
Phenanthrene	50						1 J
Phenol	30,000						
Pyrene	80						
Tentatively Identified Compounds (µg/L)							
Unknown	NAV						
Unknown Hydrocarbon	NAV						
Unknown Cyclic Hydrocarbon	NAV						
Total TICs (µg/L)	NAV				507	1,296	

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-5D			WMW-501			
SAMPLE DATE	Method 1	05/20/92	03/11/94	7/13/95	02/07/89	05/19/92	03/07/94	07/14/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270
NOTES	(µg/L)							
Semivolatile Organic Compounds (SVOCs)								
(µg/L)								
Acenaphthene	2000							
Anthracene	600							
Benzo(b)fluoranthene	7							
Benzyl Alcohol	NAV				75			
Bis(2-ethylhexyl)phthalate	30			2 J		25		
Carbozole	NAV							
Dibenzofuran	NAV							
2,4-Dichlorophenol	4000							
Diethylphthalate	30							
2,4-Dimethylphenol	20,000				61			
Dimethylphthalate	30							
Di-n-octylphthalate	NAV							
Fluoranthene	100							
Fluorene	1000							
Hexachloroethane	5,000							
2-Methylnaphthalene	3,000	18	34	13			18	
2-Methylphenol	NAV				94			
4-Methylphenol	NAV				13			22
Naphthalene	6,000	62	73	43		16	55	
n-Nitrosodiphenylamine	NAV							
Phenanthrene	50							
Phenol	30,000							
Pyrene	80							
Tentatively Identified Compounds (µg/L)								
Unknown	NAV							100 J
Unknown Hydrocarbon	NAV				100 J			
Unknown Cyclic Hydrocarbon	NAV				1,850 J			
Total TICs (µg/L)	NAV			721	1,950			371

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-502			WMW-503		WMW-504			
SAMPLE DATE	Method 1	05/20/92	03/11/94	07/14/95	03/11/94	07/14/95	05/18/92	03/07/94	03/07/94	07/14/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270	8270	8270
NOTES									Duplicate (WMW-937)	
	(µg/L)									
Semivolatile Organic Compounds (SVOCs)										
(µg/L)										
Acenaphthene	2000									
Anthracene	600									
Benzo(b)fluoranthene	7									
Benzyl Alcohol	NAV									
Bis(2-ethylhexyl)phthalate	30			2 J		10 J				3 J
Carbozole	NAV									
Dibenzofuran	NAV									
2,4-Dichlorophenol	4000									
Diethylphthalate	30									
2,4-Dimethylphenol	20,000			9 J		17 J		27		51
Dimethylphthalate	30									
Di-n-octylphthalate	NAV									
Fluoranthene	100									
Fluorene	1000									
Hexachloroethane	5,000									
2-Methylnaphthalene	3,000		14	22	52	40	73		74	61
2-Methylphenol	NAV					55				7 J
4-Methylphenol	NAV			2 J		68				11
Naphthalene	6,000	44	30	49	128	120	120	145	150	110
n-Nitrosodiphenylamine	NAV									
Phenanthrene	50									
Phenol	30,000			5 J		10 J				
Pyrene	80									
Tentatively Identified Compounds (µg/L)										
Unknown	NAV			140 J						10 J
Unknown Hydrocarbon	NAV									
Unknown Cyclic Hydrocarbon	NAV									
Total TICs (µg/L)	NAV			1,037		2,026				867

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-505	WMW-506I			WMW-506	WMW-509D		WMW-510I
SAMPLE DATE	Method 1	7/13/95	05/19/92	03/11/94	07/13/95	07/13/95	05/18/92	03/07/94	03/07/94
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270	8270
NOTES	(µg/L)								
Semivolatile Organic Compounds (SVOCs)									
(µg/L)									
Acenaphthene	2000								
Anthracene	600								
Benzo(b)fluoranthene	7	2 J							
Benzyl Alcohol	NAV								
Bis(2-ethylhexyl)phthalate	30								
Carbozole	NAV								
Dibenzofuran	NAV								
2,4-Dichlorophenol	4000								
Diethylphthalate	30								
2,4-Dimethylphenol	20,000			34	8 J	2 J			
Dimethylphthalate	30								
Di-n-octylphthalate	NAV								
Fluoranthene	100	1 J							
Fluorene	1000								
Hexachloroethane	5,000								
2-Methylnaphthalene	3,000		41	37	58				
2-Methylphenol	NAV								
4-Methylphenol	NAV								
Naphthalene	6,000		72	81	100	2 J			
n-Nitrosodiphenylamine	NAV								
Phenanthrene	50				2 J				
Phenol	30,000								
Pyrene	80	1 J							
Tentatively Identified Compounds (µg/L)									
Unknown	NAV					5 J			
Unknown Hydrocarbon	NAV								
Unknown Cyclic Hydrocarbon	NAV								
Total TICs (µg/L)	NAV	106			1,727	17			

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-601	WMW-701				WMW-704		
SAMPLE DATE	Method 1	02/07/89	05/19/92	04/22/94	04/22/94	7/15/95	05/19/92	0422/94	07/11/95
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270	8270
NOTES					Duplicate				
	(µg/L)								
Semivolatile Organic Compounds (SVOCs)									
(µg/L)									
Acenaphthene	2000								
Anthracene	600								
Benzo(b)fluoranthene	7	5.0 J							
Benzyl Alcohol	NAV								
Bis(2-ethylhexyl)phthalate	30	4.0 JB				12		170	3300 J
Carbozole	NAV								
Dibenzofuran	NAV								10 J
2,4-Dichlorophenol	4000								
Diethylphthalate	30			6J					
2,4-Dimethylphenol	20,000			50	50				
Dimethylphthalate	30					1 J			
Di-n-octylphthalate	NAV								25
Fluoranthene	100								
Fluorene	1000								21
Hexachloroethane	5,000								
2-Methylnaphthalene	3,000		22	63	68	23	43	12	360 J
2-Methylphenol	NAV			22		30			
4-Methylphenol	NAV				4J	6 J			
Naphthalene	6,000		90	170	160	82	87	21	640 J
n-Nitrosodiphenylamine	NAV								
Phenanthrene	50								8
Phenol	30,000								
Pyrene	80								
Tentatively Identified Compounds (µg/L)									
Unknown	NAV	550 J		82 J	570 J			10 J	
Unknown Hydrocarbon	NAV			1,324 J	4,519 J			989 J	
Unknown Cyclic Hydrocarbon	NAV			15J					
Total TICs (µg/L)	NAV	550		1,421	5,089	1,256		999	41,900

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP		WMW-707	WMW-708	WMW-709	WMW-710	WMW-711	WMW-711	WMW-712
SAMPLE DATE	Method 1	07/11/95	07/15/95	07/11/96	07/11/96	07/11/96	07/11/96	07/11/96	07/11/96
ANALYSIS	GW-3	8270	8270	8270	8270	8270	8270	8270	8270
NOTES		Duplicate						Duplicate	
	(µg/L)								
Semivolatile Organic Compounds (SVOCs)									
(µg/L)									
Acenaphthene	2000								
Anthracene	600								
Benzo(b)fluoranthene	7								
Benzyl Alcohol	NAV								
Bis(2-ethylhexyl)phthalate	30	3,900 J							
Carbozole	NAV								
Dibenzofuran	NAV	7							
2,4-Dichlorophenol	4000								
Diethylphthalate	30		1 J						
2,4-Dimethylphenol	20,000			6 J					2 J
Dimethylphthalate	30								
Di-n-octylphthalate	NAV	27 J							
Fluoranthene	100								
Fluorene	1000	28 J							
Hexachloroethane	5,000								
2-Methylnaphthalene	3,000	250 J	24	52	36		37 J	42 J	82
2-Methylphenol	NAV		18						
4-Methylphenol	NAV		7 J						
Naphthalene	6,000	450 J	86	120	92	89	89 J	96 J	140
n-Nitrosodiphenylamine	NAV								
Phenanthrene	50	11 J							
Phenol	30,000		4 J						2 J
Pyrene	80								
Tentatively Identified Compounds (µg/L)									
Unknown	NAV	920 J				65 J			33 J
Unknown Hydrocarbon	NAV								
Unknown Cyclic Hydrocarbon	NAV								
Total TICs (µg/L)	NAV	37,360	1,378	2,254	1,533	1,264	1,480	1,481	1,489

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

SAMPLE IDENTIFICATION	MCP	WMW-713	WMW-714	WMW-715	WMW-716	WMW-910
SAMPLE DATE	Method 1	07/10/96	07/10/96	07/17/96	07/11/96	05/18/92
ANALYSIS	GW-3	8270	8270	8270	8270	8270
NOTES	(µg/L)					
Semivolatile Organic Compounds (SVOCs)						
(µg/L)						
Acenaphthene	2000					
Anthracene	600					
Benzo(b)fluoranthene	7					
Benzyl Alcohol	NAV					
Bis(2-ethylhexyl)phthalate	30					
Carbozole	NAV					
Dibenzofuran	NAV					
2,4-Dichlorophenol	4000					
Diethylphthalate	30					
2,4-Dimethylphenol	20,000					
Dimethylphthalate	30					
Di-n-octylphthalate	NAV					
Fluoranthene	100					
Fluorene	1000					
Hexachloroethane	5,000					
2-Methylnaphthalene	3,000				73	
2-Methylphenol	NAV					
4-Methylphenol	NAV					
Naphthalene	6,000				45	
n-Nitrosodiphenylamine	NAV					
Phenanthrene	50					
Phenol	30,000					
Pyrene	80					
Tentatively Identified Compounds (µg/L)						
Unknown	NAV		19 J	24 J		
Unknown Hydrocarbon	NAV					
Unknown Cyclic Hydrocarbon	NAV					
Total TICs (µg/L)	NAV	128	88	42	704	

TABLE 3-5
SEMIVOLATILE ORGANIC COMPOUND ANALYSIS RESULTS FOR GROUNDWATER SAMPLES 1989 - 1996

1995-1996 GROUNDWATER MONITORING REPORT
FORMER WESTOVER AIR FORCE BASE SITES
CHICOPEE, MASSACHUSETTS

Notes:

1. Laboratory analyses for 1989 were performed by Weston Analytics Division of Roy F. Weston. Laboratory Analyses for 1992 and March 1994 were performed by Ceimic Corporation. April 1994 analyses performed by PACE Laboratories. 2. Samples were analyzed for SVOCs by USEPA Method 8270.

3. A blank space indicates that the compound was not detected above the detection limits. Detection limit ranges are given; individual detection limits are listed on laboratory data sheets.

4. A "J" following the value indicates an estimate of a compound that is present below the detection limit; a "B" following the value indicates that the compound is present in the method blank as well as the sample.

5. Values for Tentatively Identified Compounds (TICs) are estimates and represent totals for each type of TIC listed on the analytical data sheet.

6. *Concentrations are presented relative to the Massachusetts Contingency Plan (MCP) Method GW-Groundwater Standards (310 CMR 40.0974(2)).* Shaded values are exceedances of current standards.
7. NAV indicates that the value is not available in the MCP Table of Standards.

µ/L = micrograms per liter

APPENDIX A

1995 ROUND I GROUNDWATER SAMPLING PROGRAM

A-1 Daily Quality Control Reports
A-2 Daily Calibration Data Sheets
A-3 Groundwater Sampling Field Data Records
A-4 Water Level Data Sheets
A-5 Sample Tracking Forms
A-6 Laboratory Analytical Data

A-1 DAILY QUALITY CONTROL REPORTS

ABB
ABB Environmental Services, Inc.

ABB-ES DAILY QUALITY CONTROL REPORT

REPORT NUMBER: 1

COE ENGINEERING MANAGER:

PROJECT: Westover AFB

JOB NUMBER: ~~7658~~ m/2 7452-04

CONTRACT NUMBER: 60126

DATE 7/10/95

Day	S	M	T	W	T	F	S
		X					

Weather	Bright Sun	Clear X	Overcast	Rain	Snow
Temperature	To 32	32-50	50-70	70-85 X	85 Up
Wind	Calm	Moderate X	High	Report No. 1	
Humidity	Dry	Moderate X	High		

SUB-CONTRACTORS ON SITE: None

EQUIPMENT ON SITE: Horiba U-10 Water Quality meter, PID-M00105
Water Level Indicator, Submersible pumps, Bailers

WORK PERFORMED (INCLUDING SAMPLING)
Calibrate Equipment
Decontaminate equipment

Samples Collected
WO BSXX1XXX01XX
WO BSXX1XXX01XR
WO GW101XXX01XX
WO GW102XXX01XY
WO GW102XXX01XD
WO GW102XXX01MS
WO GW102XXX01MD
WO GW102XXX01XR
WO BFXX1XXX01XX
WO BFXX1XXX01XR

9406002D(D)

SHEET___ OF ___

FIGURE 5-6
DAILY QUALITY CONTROL REPORT

PROJECT:

JOB NUMBER: 7452-04

REPORT NUMBER: 1

DATE 7/10/95

9406002D(D)

SHEET___ OF ___

FIGURE 5-6 (cont.)

PROJECT:

REPORT NUMBER: 1

JOB NUMBER: 7452-04

DATE 7/16/94

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)
Horiba U-10 water quality meter - PH, Temp, Cond., turb, DO
PID 580B - mod 105
ALL Calibrations were Done to Machine Specifications:
replicates Samples:
WO BS XX1 XXX01XR
WO GW102 XXX01XR
QA/QC
~~GW102 XX~~ WO GW102 XXX01XD, WO ~~BT 101~~ XXX01XX, WO BT XXX01XR
WO GW102 XXX01MS, WO GW102 XXX01MD, WO BS XX1 XXX01XX,
HEALTH AND SAFETY LEVELS AND ACTIVITIES (DAILY HEALTH AND SAFETY AUDIT ATTACHED)
ALL work was Done at Level D
PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:
none
SPECIAL NOTES
The Locks on GW-101 and GW-102 are very rusty and difficult to open. They should probably be replaced at some point.
TOMORROW'S EXPECTATIONS
Continue Ground water Sampling, Install a Swap 2 Product recovery Pump I GW-704

9406002D(D)

SHEET ___ OF ___

BY [signature] TITLE Scientist

FIGURE 5-6 (cont.)

ABB
ABB Environmental Services, Inc.

ABB-ES DAILY QUALITY CONTROL REPORT

REPORT NUMBER: 2

COE ENGINEERING MANAGER: E0136

PROJECT: Westover AFB

JOB NUMBER: 7452-02

CONTRACT NUMBER:

DATE 7/11/95

Day	S	M	T	W	T	F	S
			X				

Weather	Bright Sun	Clear	Overcast	Rain	Snow
			X	X	
Temperature	To 32	32-50	50-70	70-85	85 Up
				X	
Wind	Calm	Moderate	High	Report No.	
	X			2	
Humidity	Dry	Moderate	High		
		X			

SUB-CONTRACTORS ON SITE: None representatives: Dan Phillips
Ken Holmes

EQUIPMENT ON SITE: SAmeas 7/10/95

WORK PERFORMED (INCLUDING SAMPLING)

1.) Installed a swap2 pump in GW-704

2.) Sampled 9 wells

WO GW 208 XXY01XY
WO GW 208XXI01XY
WO GW 207 XXY 01XY
WO GW 704 XXY 01XY
WO GW 206 XXY 01XY
WO GW 206 XXI01XY
WO GW 209 XXY01XY
WO GW 210 XXY01 XY
WO GW 211 XXY 01 XY
WO GW 203 XXX 01 XX MS

Samples Shipped

WO GW 102 XXY01XY
WO GW 102 XXY01XD
WO GW 101 XXY 01 XY
WO GW 208 XXY01 XY
WO GW 704 XXY01 XY
WO GW 704 XXY01 XD
WO GW 207 XXY01 XY
WO GW 208 XXI 01XY
WO BS XX1 XXY01XY
WO BT XX1 XXY01 XY
WO BT XX1 XXY01 XD
WO BS XX1 XXY01 XD

9406002D(D)

SHEET___ OF ___

FIGURE 5-6
DAILY QUALITY CONTROL REPORT

PROJECT:

JOB NUMBER: 7452-04

REPORT NUMBER: 2

DATE 7/11/95

9406002D(D)

SHEET___ OF ___

FIGURE 5-6 (cont.)

PROJECT:

JOB NUMBER: 7452-04

REPORT NUMBER: 2

DATE 7/11/95

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)

Calibrations: Horiba U-10, PID - Molocs

WO GW 704 XXX01XX - MS / MSD / Dup / Replicate
WO BSXX2 XXX01XX - Sampler Blank #2
WO BTXX2 XXX01XX - trip Blank #2

HEALTH AND SAFETY LEVELS AND ACTIVITIES (DAILY HEALTH AND SAFETY AUDIT ATTACHED)

Level D

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

None

SPECIAL NOTES

~~None~~ Initial Contaminated GW-704 Due to product being in the well.

TOMORROW'S EXPECTATIONS

Continue well sampling
Check on the Swap 2 pump in GW-704

9406002D(D)

BY [signature] TITLE Scientist

SHEET ___ OF ___

FIGURE 5-6 (cont.)

ABB
ABB Environmental Services, Inc.

ABB-ES DAILY QUALITY CONTROL REPORT

REPORT NUMBER: 3

COE ENGINEERING MANAGER:

PROJECT: Westover AFB

JOB NUMBER: 7452-04

CONTRACT NUMBER: E0126

DATE 7/12/95

Day	S	M	T	W	T	F	S
				X			

Weather	Bright Sun	Clear X	Overcast	Rain	Snow
Temperature	To 32	33-50	50-70	70-85 X	85 Up
Wind	Calm X	Moderate	High	Report No.	
Humidity	Dry	Moderate X	High		

SUB-CONTRACTORS ON SITE: None

EQUIPMENT ON SITE:
Same as 7/10/95

WORK PERFORMED (INCLUDING SAMPLING)

Samples ~~Collected~~ Shipped	Samples Collected
WO GW 206 XXY01 XY	WO GW 214 XXI01 XY
WO GW 203 XXY01 XY	WO GW 213 XXI01 XY
WO BS XX2 XXY01 XY	WO GW XX2 XXN01 XY
WO BT XX2 XXY01 XY	WO GW 212 XXI01 XY
WO GW 211 XXY01 XY	WO GW 601 XXY01 XY
WO GW 210 XXY01 XY	WO BT XX3 XXY01 XY
WO GW 209 XXY01 XY	WO GW 305 XXY01 XY
WO GW 206 XXI01 XY	WO GW 307 XXI01 XY
WO GW 212 XXI01 XY	WO GW 304 XXA01 XY
WO GW XX2 XXN01 XY	WO GW 307 XXX01 XY
WO GW 213 XXI01 XY	WO GW 303 XXY01 XY
WO GW 214 XXI01 XY	

Continued to check SWAFB product pump in GW-704

9406002D(D)

SHEET___ OF ___

FIGURE 5-6
DAILY QUALITY CONTROL REPORT

PROJECT:

REPORT NUMBER: 3

JOB NUMBER: 7452-04

DATE 7/12/95

9406002D(D)

SHEET___ OF ___

FIGURE 5-6 (cont.)

PROJECT:

JOB NUMBER:

REPORT NUMBER: 3

DATE 7/12/95

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)
Calibrations:
Horiba U-10 water quality meter } both Calibrations were fine!
PID-MOD105 } see calibrat...
WOBTXX3XXX01XX - trip Blank for PALE
WOBTXX2XXX01XR - trip Blank for the Neel LAB

HEALTH AND SAFETY LEVELS AND ACTIVITIES (DAILY HEALTH AND SAFETY AUDIT ATTACHED)
ALL Activities were Conducted at Level D

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:
There was no Product in the SWAP2 product recovery system in GW-704. We're Calibrated and will Check 7/13/95 to see if it has collected any product

SPECIAL NOTES
Containerized - GW-307 Due to high PID Headspace
Steve Hollifield at Commonwealth Packaging asked about using the Groundwater for Landscaping purpose - Shallow wells - I gave him Mark Seelen (ABB P.M.) # as a reference

TOMORROW'S EXPECTATIONS
Continue Groundwater Sampling

9406002D(D)

SHEET ___ OF ___

BY [signature] TITLE Scientist

FIGURE 5-6 (cont.)

ABB
ABB Environmental Services, Inc.

ABB-ES DAILY QUALITY CONTROL REPORT

REPORT NUMBER: 4

DATE 7/13/91

Day: S | M | T | W | T X | F | S

COE ENGINEERING MANAGER:

PROJECT: Westover AFB

JOB NUMBER: 7452-04

CONTRACT NUMBER: 80126

Weather	Bright Sun	Clear X	Overcast	Rain	Snow
Temperature	To 32	32-50	50-70	70-85	85 Up X
Wind	Calm	Moderate X	High	Report No. 4	
Humidity	Dry	Moderate	High X		

SUB-CONTRACTORS ON SITE: None

EQUIPMENT ON SITE:
Same As 7/10/91

WORK PERFORMED (INCLUDING SAMPLING)

Samples Collected	Samples Shipped
WO GW 401 XYY01 XX	WO GW 510 XXI01 XY
WO GW 403 XXY01 XY	WO GW 505 XYX 01 XY
WO GW 507 XYY01 XY	WO BS XY3 XXX 01 XY
WO BT XY3 XXX01 XR	WO GW 506 XXX 01 XY
WO BT XX4 YYY01 XY	WO GW 506 XXI01 XY
WO GW 508 XYY 01 XX	WO GW 302 XXX 01 XY
WO GW XY5 XX0 01 XY	WO GW 601 XXY 01 XY
WO GW 306 XXY 01 XY	WO GW 304 XYA 01 XY
WO GW 510 XXI 01 XY	WO GW 305 XXI 01 XY
WO GW 505 XYX 01 XY	WO BT XX3 XXY 01 XY
WO BS XY3 XYY 01 XY	WO GW 305 XXY 01 XY
WO GW 506 XXY 01 XY	WO GW 303 XYY 01 XY
WO GW 506 XX I01 XY	WO GW 307 XYY 01 XY
WO GW 302 XXY 01 XY	WO GW 307 XYY01 XD
WO GW 301 XYY 01 XY	WO GW 307 XYY01 XR
WO GW 301 XYY 01 XD	WO GW 301 XYX01 XY
WO GW 301 XYY 01 XR	WO GW 301 XYY01 XD
	WO GW 301 XYY01 XR
	WO BT XX2 XYY 01 XR ME

Continued Monitoring GW-704-Product Pump

9406002D(D)

SHEET__ OF __

FIGURE 5-6
DAILY QUALITY CONTROL REPORT

PROJECT: Westover AFB

REPORT NUMBER: 4

JOB NUMBER: 7452-04

DATE 7/13/95

9406002D(D)

SHEET___ OF ___

FIGURE 5-6 (cont.)

PROJECT: Westover AFB

REPORT NUMBER: 4

JOB NUMBER: 7452-04

DATE 7/13/94

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)

Calibrations - Horiba U-10 Water Quality Meter } both Calibration
PID-M01005 } were fine.

Quality Control Samples

WO BtXX4 XXX01XX	WO GW 507 XXX01XD	WO GW 301 XXX01XD
WO BtXX3 XXX01XR	WO GW 507 XXX01 XR	WO GW 301 XXX01X R
WO BS XX3 XXX01 XX		

HEALTH AND SAFETY LEVELS AND ACTIVITIES (DAILY HEALTH AND SAFETY AUDIT ATTACHED)

ALL Activities were performed at Level D

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

None

SPECIAL NOTES

Michael Bolton (WMDC) asked about dismantling some destroyed wells. I asked him to CALL Mark Seelen (ABB) for Direction

TOMORROW'S EXPECTATIONS

Continue Sampling

9406002D(D)

SHEET ___ OF ___

BY [signature] TITLE Scientist

FIGURE 5-6 (cont.)

ABB Environmental Services, Inc.

ABB-ES DAILY QUALITY CONTROL REPORT

REPORT NUMBER: 5

DATE: 7/14/95

COE ENGINEERING MANAGER:

PROJECT: Westover AFB

JOB NUMBER: 7452-04

CONTRACT NUMBER: 80126

Day	S	M	T	W	T	F	S
						X	

Weather	Bright Sun	Clear X	Overcast	Rain	Snow
Temperature	To 32	33-50	50-70	70-85	85 Up X
Wind	Calm	Moderate X	High	Report No. 5	
Humidity	Dry	Moderate	High X		

SUB-CONTRACTORS ON SITE: None

EQUIPMENT ON SITE: SAME as 7/10/95

WORK PERFORMED (INCLUDING SAMPLING)

Samples Collected	Samples Shipped
WO GW 503 XXX 01 XY	WO GW 407 XY I 01 XY
WO GW 502 XXX 01 XY	WO BT XX4 XXX 01 XY
WO GW 504 XXX 01 XY	WO GW 403 XXY 01 XY
WO GW 501 XXX 01 XY	WO GW 508 XXX 01 XX
WO GW 402 XXX 01 XY	WO GW XX5 XX0 01 XY
WO GW 406 XXX XE	WO GW 404 XXX 01 XY
WO GW 406 XXI 01 XY	WO GW 401 XXX 01 XY
WO GW 407 XXI 01 XY	WO GW 507 XXX 01 XY
WO GW 404 XXX 01 XY	WO GW 507 XXX 01 XO
WO GW 405 XXX 01 XY	WO GW 507 XXX 01 XR
WO GW 410 XXI 01 XY	WO BT XX3 XXX 01 XR
WO BS XX4 XXX 01 XY	WO GW 405 XXX 01 XY
WO GW 409 XXI 01 XY	WO GW 410 XXI 01 XY
	WO BS XX4 XXX 01 XY
	WO GW 409 XXI 01 XY

Stored all the Drums in the Drum Storage Area.

9406002D(D)

SHEET__ OF __

FIGURE 5-6
DAILY QUALITY CONTROL REPORT

PROJECT: Westover AFB

REPORT NUMBER: 5

JOB NUMBER: 7452-04

DATE 7/14/95

9406002D(D)

SHEET___ OF ___

FIGURE 5-6 (cont.)

PROJECT: Westover AFB

REPORT NUMBER: 5

JOB NUMBER: 7452-04

DATE 7/14/95

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)
Calibrated:
Horiba U-10 Water Quality Meter } both Calibration
PID-M01005 } were fine
Quality Control Samples:
WBSXX4XXX01XX

HEALTH AND SAFETY LEVELS AND ACTIVITIES (DAILY HEALTH AND SAFETY AUDIT ATTACHED)
All Activities were Performed at Level D

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:
None

SPECIAL NOTES
None

TOMORROW'S EXPECTATIONS
Finish Groundwater Sampling

9406002D(D)

SHEET ___ OF ___

BY _____ TITLE _____

FIGURE 5-6 (cont.)

ABB
ABB Environmental Services, Inc.

ABB-ES DAILY QUALITY CONTROL REPORT

REPORT NUMBER: 6

COE ENGINEERING MANAGER:

PROJECT: Westover AFB

JOB NUMBER: 74520 4

CONTRACT NUMBER: E0126

DATE 7/15/95

Day	S	M	T	W	T	F	S
							X

Weather	Bright Sun	Clear X	Overcast X	Rain X	Snow
Temperature	To 32	32-50	50-70	70-85	85 Up X
Wind	Calm	Moderate	High X	Report No. 6	
Humidity	Dry	Moderate	High X		

SUB-CONTRACTORS ON SITE: None

EQUIPMENT ON SITE: Same as 7/10/95

WORK PERFORMED (INCLUDING SAMPLING)

Samples Collected: No Samples Shipped today

WO GW 707 XYY01XY
WO GW 701 XYY01XY
WO BS XYSXY 01XY
WO GW 702 XYY01XY
WO GW 201 XYY01XY
WO BT XYS XYY01XR
WO BT XY4 XYY01XR
WO GW 204 XYY01XY
WO GW 205 XY001XY
WO GW 202 XYY01XY

9406002D(D)

SHEET___ OF ___

FIGURE 5-6
DAILY QUALITY CONTROL REPORT

PROJECT: Westover AFB

JOB NUMBER: 7452-04

REPORT NUMBER: 6

DATE 7/17/95

9406002D(D)

SHEET___ OF ___

FIGURE 5-6 (cont.)

PROJECT: Westover AFB

REPORT NUMBER: 6

JOB NUMBER: 7452-04

DATE 7/17/95

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)

Calibrations: Horiba U-10 water quality meter } both were Calibrated
PID - M01005 } to site specific requirements

Quality Control Samples:
WO BTXX5XXY01XY WOGW 202 XXY01XY - MS/MSD/Duplicate/Replicate
WO BTXX4XXY01XR
WO BSXX5XXY01XY

HEALTH AND SAFETY LEVELS AND ACTIVITIES (DAILY HEALTH AND SAFETY AUDIT ATTACHED)

ALL Health and Safety Levels were Level D.

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

PID failed due to High Humidity, the PID was opened allowed to Dry and was o.k. We Also Could not retreive the pump out of GW-201 - the pump was Left in the well.

SPECIAL NOTES

We Collected a TOTAL of 3 3/4 burrels of purge water.

TOMORROW'S EXPECTATIONS

We are finished Sampling

9406002D(D)

SHEET ___ OF ___

BY [signature] TITLE Scientist

FIGURE 5-6 (cont.)

A-2 DAILY CALIBRATION DATA SHEETS

CALIBRATION DATA SHEET

Project Wrstover

Job No. 7452-04

Date 7/10/95

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information	
Horiba U-10		pH 4 4.01 pH 7 ____	pH 10 ____
		pH 4 ____ pH 7 ____	pH 10 ____
		pH 4 ____ pH 7 ____	pH 10 ____
		Cond. Std. ____/ 4.54	Cond. Std. ____/ ____
		Cond. Std. ____/ ____	Cond. Std. ____/ ____
		Cond. Std. ____/ ____	Cond. Std. ____/ ____
Dissolved Oxygen			
Horiba-U10		Avg. Winkler Value ____ppm	Meter Value 8.54 ppm
Redox			
		Zorbell Sol. Value ____	Meter Value ____
Photoionization Meter			
TE 17 - M00105		Zero/Zero Air? ☐ Yes ☐ No	Span Gas Value 100 ppm Equiv.
			Meter Value 101 ppm Equiv.
		Zero/Zero Air? ☐ Yes ☐ No	Span Gas Value ____ppm Equiv.
			Meter Value ____ppm Equiv.
Other			

Fluids/Materials Record

Deionized Water Source: [X] ABB Staging [ ] Portable System [ ] Other____

Trip Blank Water Source: [ ] ABB Lab; Lot No. ____ [X] Other; ID PACE LAB Supplied

Decontamination Fluids: [ ] Methyl Hydrate; Lot No.____ [ ] Other____ Lot No.____

Sampler Blank Water Source: [X] ABB Staging [ ] Port .System [ ] Other____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No.____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No.____

H^2SO^4 Lot No.____

HCL Lot No. LAB Supplied

NaOH Lot No.____

ZnAOC Lot No.____

Filtration Paper ID:

Manuf/Type____

Lot No.____

Sampler Signature Cheryl Slocum

Standards

Manuf.____

Lot No.____

FIGURE 5-2
CALIBRATION DATA SHEET

9406002D(C)

CALIBRATION DATA SHEET

Project Westover AFB

Job No. 7452-04

Date 7/11/95

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
Horiba U-10		pH 4 3.98 pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
		Cond. Std. ____/ 448 Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
Dissolved Oxygen Horiba U-10		Avg. Winkler Value ____ppm Meter Value ____ppm
Redox ____		Zorbell Sol. Value ____ Meter Value 8.34
Photoionization Meter M00105		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value 100 ppm Equiv. Meter Value 102 ppm Equiv.
____		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ____ppm Equiv. Meter Value ____ppm Equiv.
Other ____		____

Fluids/Materials Record

Deionized Water Source: [X] ABB Staging [ ] Portable System [ ] Other ____

Trip Blank Water Source: [X] ABB Lab; Lot No. ____ [ ] Other; ID PACE LAB

Decontamination Fluids: [ ] Methyl Hydrate; Lot No. ____ [ ] Other ____ Lot No. ____

Sampler Blank Water Source: [X] ABB Staging [ ] Port .System [ ] Other ____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No. ____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No. ____

H^2SO^4 Lot No. ____

HCL Lot No. PACE LAB

NaOH Lot No. ____

ZnAOC Lot No. ____

Filtration Paper ID:

Manuf/Type ____

Lot No. ____

Sampler Signature Cheryl Slocum

Standards

Manuf. ____

Lot No. ____

FIGURE 5-2
CALIBRATION DATA SHEET

9406002D(C)

CALIBRATION DATA SHEET

Project Westover AFB

Job No. 7452-041

Date 7/12/95

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
Horiba U-10		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
Dissolved Oxygen		
Horiba U-10		Avg. Winkler Value ____ppm Meter Value ____ppm
Redox		
		Zorbell Sol. Value ____ Meter Value ____
Photoionization Meter		
MOO105		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value 100 ppm Equiv. Meter Value 103 ppm Equiv.
		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ____ppm Equiv. Meter Value ____ppm Equiv.
Other		

Fluids/Materials Record

Deionized Water Source: [X] ABB Staging [ ] Portable System [ ] Other____

Trip Blank Water Source: [X] ABB Lab; Lot No. ____ [ ] Other; ID PACE LAB

Decontamination Fluids: [ ] Methyl Hydrate; Lot No.____ [ ] Other____ Lot No.____

Sampler Blank Water Source: [X] ABB Staging [ ] Port .System [ ] Other____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No.____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No.____

H^2SO^4 Lot No.____

HCL Lot No. PACE LAB

NaOH Lot No.____

ZnAOC Lot No.____

Filtration Paper ID:

Manuf/Type____

Lot No.____

Sampler Signature [signature]

Standards

Manuf.____

Lot No.____

FIGURE 5-2
CALIBRATION DATA SHEET

9406002D(C)

CALIBRATION DATA SHEET

Project Westover AFB

Job No. 7452-04

Date 7/13/95

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
Horiba U-10		pH 4 4.01 pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. ____/ 4.47 Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
Dissolved Oxygen		
		Avg. Winkler Value ____ppm Meter Value ____ppm
Redox		
		Zorbell Sol. Value ____ Meter Value ____
Photoionization Meter		
M00105		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value 100 ppm Equiv. Meter Value 101 ppm Equiv.
		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ____ppm Equiv. Meter Value ____ppm Equiv.
Other		

Fluids/Materials Record

Deionized Water Source: [X] ABB Staging [ ] Portable System [ ] Other____

Trip Blank Water Source: [ ] ABB Lab; Lot No. ____ [X] Other; ID Pace

Decontamination Fluids: [ ] Methyl Hydrate; Lot No.____ [ ] Other____ Lot No.____

Sampler Blank Water Source: [X] ABB Staging [ ] Port .System [ ] Other____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No.____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No.____

H^2SO^4 Lot No.____

HCL Lot No. Pace

NaOH Lot No.____

ZnAOC Lot No.____

Filtration Paper ID:

Manuf/Type____

Lot No.____

Sampler Signature Cheryl Slocum

Standards

Manuf.____

Lot No.____

FIGURE 5-2
CALIBRATION DATA SHEET

9406002D(C)

CALIBRATION DATA SHEET

Project Westover AFB

Job No. 7452-04

Date 7/14/95

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
Horiba U-10		pH 4 3.99 pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. ____/ 4.49 Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
Dissolved Oxygen		
Horiba - U-10		Avg. Winkler Value ____ppm Meter Value ____ppm
Redox		
		Zorbell Sol. Value ____ Meter Value ____
Photoionization Meter		
M00105		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value 100 ppm Equiv. Meter Value 101 ppm Equiv.
		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ____ppm Equiv. Meter Value ____ppm Equiv.
Other		

Fluids/Materials Record

Deionized Water Source: [X] ABB Staging [ ] Portable System [ ] Other ____

Trip Blank Water Source: [ ] ABB Lab; Lot No. ____ [X] Other; ID Pace

Decontamination Fluids: [ ] Methyl Hydrate; Lot No. ____ [ ] Other ____ Lot No. ____

Sampler Blank Water Source: [X] ABB Staging [ ] Port .System [ ] Other ____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No. ____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No. ____

H^2SO^4 Lot No. ____

HCL Lot No. PAC

NaOH Lot No. ____

ZnAOC Lot No. ____

Filtration Paper ID:

Manuf/Type ____

Lot No. ____

Sampler Signature Cheryl Slocum

Standards

Manuf. ____

Lot No. ____

FIGURE 5-2
CALIBRATION DATA SHEET

9406002D(C)

CALIBRATION DATA SHEET

Project Westover AFB

Job No.

Date 7/15/95

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information	
Horiba U-10		pH 4 4.00 pH 7 ____	pH 10 ____
Turbidity Std = 0	Reads 0	pH 4 ____ pH 7 ____	pH 10 ____
		pH 4 ____ pH 7 ____	pH 10 ____
		Cond. Std. 4.49 / 4.49	Cond. Std. ____ / ____
		Cond. Std. ____ / ____	Cond. Std. ____ / ____
		Cond. Std. ____ / ____	Cond. Std. ____ / ____
Dissolved Oxygen			
Horiba U-10		Avg. Winkler Value ____ ppm	Meter Value ____ ppm
Redox			
		Zorbell Sol. Value ____	Meter Value ____
Photoionization Meter			
M00105		Zero/Zero Air? ☐ Yes ☐ No	Span Gas Value 100 ppm Equiv.
			Meter Value 102 ppm Equiv.
		Zero/Zero Air? ☐ Yes ☐ No	Span Gas Value ____ ppm Equiv.
			Meter Value ____ ppm Equiv.
Other			

Fluids/Materials Record

Deionized Water Source: [X] ABB Staging [ ] Portable System [ ] Other ____

Trip Blank Water Source: [ ] ABB Lab; Lot No. ____ [X] Other; ID Pace

Decontamination Fluids: [ ] Methyl Hydrate; Lot No. ____ [ ] Other ____ Lot No. ____

Sampler Blank Water Source: [X] ABB Staging [ ] Port .System [ ] Other ____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No. ____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No. ____

H^2SO^4 Lot No. ____

HCL Lot No. Pace

NaOH Lot No. ____

ZnAOC Lot No. ____

Filtration Paper ID:

Manuf/Type ____

Lot No. ____

Sampler Signature Cheryl Slocum

Standards

Manuf. ____

Lot No. ____

FIGURE 5-2
CALIBRATION DATA SHEET

9406002D(C)

A-3 GROUNDWATER SAMPLING FIELD DATA RECORDS

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/10/91
SAMPLE NUMBER (ISIS): WO BS XY1 XXX01 XX
TIME OF ACTIVITY: START: 1541 END: 1541
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR:
ODOR?
GRAIN SIZE:
PID RDG:
UNITS:
SATURATED?
OTHER:

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MAREKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☐	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	1, 2
☒	SVOC	USEPA 8270	N	☐		4 DEG C	3 4
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN? Yes
ISIS CODE: WO BS XX1 XXX01 XR
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: Michael H. Long
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:) SOIL / GROUNDWATER / OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/16/91		
SAMPLE NUMBER (ISIS):	WOGW101XY01XY	TIME OF ACTIVITY:	START: 1530 END: 1600
FIELD QC DATA: ☐	FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	No
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Head Space - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 34.7 mr
B. DEPTH TO WATER(FT): ~~28.74~~ 28.90
C. HEIGHT OF WATER(FT): 6
D. WELL ID (IN) 2"
E. VOL (GAL): 33
F. HISTORICAL WELL DEPTH(FT): 32
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 1.9'
I. DIFF WELL AND CASING(FT): -.16'
J. PURGE VOLUME(GAL): 11
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☒ PID	☒ BOTTLE	☒ LIQUINOX
☐ RAD METER	☐ SPATULA	☒ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☒ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒	2 40 mL vials	4 DEG C	1, 2
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	11	22	33
TEMP (C)	14.4	13.1	13.1
pH	6.25	6.19	6.17
COND	.381	.347	.342
TURBIDITY	3	1	0
D.O.	0.75	0.88	0.70

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: none

QC SAMPLE(S) TAKEN?
ISIS CODE: none

NOTES: Lock on well very rusted, difficult to open.

SIGNATURE: [signature]
RECEIVED BY:

#1 1ft Volume Heavy orange Flock

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 0745204
DATE 7/10/95
SAMPLE NUMBER (ISIS): WOGW102XXX01XX
TIME OF ACTIVITY: START: 1630 END: 1700
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? none
GRAIN SIZE: NA
PID RDG: 0 ppm
UNITS:
SATURATED? NA
OTHER: Headspace - 0 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): ~~30.71~~ 36.55
B. DEPTH TO WATER(FT): 30.71
C. HEIGHT OF WATER(FT): 6'2
D. WELL ID (IN) 2"
E. VOL.(GAL): 11
F. HISTORICAL WELL DEPTH(FT): 34'
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.3
I. DIFF WELL AND CASING(FT): -0.17
J. PURGE VOLUME(GAL): 11
J. WELL LOCKED? Y
K. PROTECTIVE CASING SECURE? Y
L. CONCRETE APRON INTACT? Y
M. WELL MARKINGS READABLE? Y

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	11	22	33
TEMP (C)	8.72	12.4	12.5
pH	5.34	5.39	5.29
COND	.401	.401	.400
TURBIDITY	0	0	0
D.O.	8.62	7.21	7.30

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: WOGW102XXX01XO
" MS
" MO
QC SAMPLE(S) TAKEN?
ISIS CODE: WOGW102XXX01XR

NOTES: Lock very rusty on well, difficult to open, ms/msd/dup/replicate taken

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/15/95
SAMPLE NUMBER (ISIS):	WOGW 201 YYY 01 YYY	TIME OF ACTIVITY:	START: 970 END: 1000
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	Slight Fuel
GRAIN SIZE:	NA	PID RDG:	— UNITS:
SATURATED?	NA	OTHER:	PID down

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 26.64
B. DEPTH TO WATER(FT): 14.21
C. HEIGHT OF WATER(FT): 6
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 1.9
I. DIFF WELL AND CASING(FT): ~0.24
J. PURGE VOLUME(GAL): 5
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☒ PID	☒ BOTTLE	☒ LIQUINOX
☐ RAD METER	☐ SPATULA	☒ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☐ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	5	10	15
TEMP (C)	12.9	12.7	12.4
pH	5.94	5.91	5.89
COND	.118	.124	.125
TURBIDITY	2	0	0
D.O.	0.37	0.48	0.50

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: PID not working
Sampled w/ pump because pump is stuck in well, left pump in well.

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

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SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	[illegible]	DATE	[illegible]
SAMPLE NUMBER (ISIS):	WOGW202XXY01	TIME OF ACTIVITY:	START: [illegible]	END: [illegible]	
FIELD QC DATA:	[X] FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	202XXY01XD		

SAMPLE OBSERVATIONS

COLOR:	Clear/Yellow	ODOR?	Fuel-like
GRAIN SIZE:	NA	PID RDG:	6.4 UNITS: pppm
SATURATED?	NA	OTHER:	Headspace - 19C

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 26.27
B. DEPTH TO WATER(FT): 19.52
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 27
G. MEASURED FROM: (RISER) CASING
H. CASING STICK-UP(FT): 2.0
I. DIFF WELL AND CASING(FT): -0.21
J. PURGE VOLUME(GAL):
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
[X]	PID	[X]	BOTTLE	[X]	LIQUINOX
[ ]	RAD METER	[ ]	SPATULA	[X]	DE-IONIZED WATER
[ ]	EXPLOSIMETER	[ ]	ALUM PAN	[ ]	LAB-PROVIDED BLANK WATER
[ ]	OTHER:	[ ]	OTHER:	[ ]	POTABLE WATER
				[ ]	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[ ]		4 DEG C	
[X]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WKP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	5	10	15
TEMP (C)	13.3	12.8	12.7
pH	5.84	5.85	5.82
COND	.357	.314	.298
TURBIDITY	33	12	7
D.O.	0.62	0.48	0.22

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: WOGW202XXY01MS MD
QC SAMPLE(S) TAKEN?
ISIS CODE: WOGW202XXY01HR

NOTES: MS/MSD/Dup/replicate
Well is bent. containerized
Have to use a disposable bailer to move around the bend in the well

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04	DATE	7/16/04
SAMPLE NUMBER (ISIS):	WOB+xx5xxx01xx	TIME OF ACTIVITY:	START: 7:15	END: 7:15	
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR: _____ ODOR? _____
GRAIN SIZE: _____ PID RDG: _____ UNITS: _____
SATURATED? _____ OTHER: _____

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 26.64 mm
B. DEPTH TO WATER(FT): 19.27 mm
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☐	PID	☐	BOTTLE	☐	LIQUINOX
☐	RAD METER	☐	SPATULA	☐	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☑	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
WOB+xx4xxx01xx
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: trip Blank #5 - PAIR
trip Blank #4 - NEP

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/1/94
SAMPLE NUMBER (ISIS): WO GW 203 XXX 0 XW
TIME OF ACTIVITY: START: 1400 END: 1430
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 25.99
B. DEPTH TO WATER(FT): 19.69
C. HEIGHT OF WATER(FT): 6
D. WELL ID (IN) 2
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.05
I. DIFF WELL AND CASING(FT): -0.23
J. PURGE VOLUME(GAL):
J. WELL LOCKED? yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MAREKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
X	PID	☐	BOTTLE	X	LIQUINOX
☐	RAD METER	☐	SPATULA	X	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
X	VOC	USEPA 8240	N	X		4 DEG C	4950
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	6	12	18
TEMP (C)	13.8	12.6	12.4
pH	5.85	5.68	5.65
COND	.105	.112	.114
TURBIDITY	3	0	0
D.O.	2.75	2.33	2.19

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: None
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Lock is frozen, knowed cap off to sample well.

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7H52-04
DATE 7/15/99
SAMPLE NUMBER (ISIS): WO GW 204 XXX 01XX
TIME OF ACTIVITY: START: 800 END: 830
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? Slight Fuel
GRAIN SIZE: NA
PID RDG: —
UNITS: —
SATURATED? NA
OTHER: PID is down

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: (RISER) CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	5	10	15
TEMP (C)	13.7	13.2	13.1
pH	6.11	6.10	6.09
COND	.1240	.1305	.1311
TURBIDITY	2	1	1
D.O.	0.38	0.35	0.21

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	~~7415195~~ 7658-04
DATE	7/15/95		
SAMPLE NUMBER (ISIS):	WO FW 205 XXB01XX	TIME OF ACTIVITY:	START: 805 END: 845
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Brown/turbid	ODOR?	None
GRAIN SIZE:	WA	PID RDG:	2 UNITS: ppm
SATURATED?	WA	OTHER:	

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.21
B. DEPTH TO WATER(FT): 22.31
C. HEIGHT OF WATER(FT): 2
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.4
I. DIFF WELL AND CASING(FT): -0.31
J. PURGE VOLUME(GAL): 1
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☑	PID	☑	BOTTLE	☑	LIQUINOX
☐	RAD METER	☐	SPATULA	☑	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☑	VOC	USEPA 8240	N	☐		4 DEG C	
☑	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	1		
TEMP (C)	18.6		
pH	6.01		
COND	280		
TURBIDITY	47		
D.O.	2.96		

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: well purged dry after 1 volume. very slow recharge

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/11/94
SAMPLE NUMBER (ISIS): WO GW 206 XXX 01XX
TIME OF ACTIVITY: START: 1430 END: 1500
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: N/A
PID RDG: 0
UNITS: ppm
SATURATED? N/A
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 23.02
B. DEPTH TO WATER(FT): 21.54
C. HEIGHT OF WATER(FT): 2
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 23
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.17
J. PURGE VOLUME(GAL):
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Marginal a faint 206 spray painted on tan

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☒ PID	☒ BOTTLE	☒ LIQUINOX
☐ RAD METER	☐ SPATULA	☒ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☐ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	2	4	6
TEMP (C)	14.5	14.3	14.3
pH	5.77	5.71	5.70
COND	.443	.447	.447
TURBIDITY	1	1	1
D.O.	1.89	1.79	1.86

QA/QC DATA

QA SAMPLE TAKEN? None
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Same orange floc

SIGNATURE: Michael H. [illegible]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	74S2-01	DATE	7/11/95
SAMPLE NUMBER (ISIS):	WOGW206I XY01XY	TIME OF ACTIVITY:	START: 1440	END: 1510	
FIELD QC DATA:	[X] FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	Fuel-like
GRAIN SIZE:	NA	PID RDG:	5 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace - 39 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 39.66
B. DEPTH TO WATER(FT): 23.46
C. HEIGHT OF WATER(FT):
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 60
G. MEASURED FROM: (RISER) CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.17
J. PURGE VOLUME(GAL): 16
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? NO
Not Labeled

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
[X] PID	[X] BOTTLE	[X] LIQUINOX
[ ] RAD METER	[ ] SPATULA	[X] DE-IONIZED WATER
[ ] EXPLOSIMETER	[ ] ALUM PAN	[ ] LAB-PROVIDED BLANK WATER
[ ] OTHER:	[ ] OTHER:	[ ] POTABLE WATER
		[ ] METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[ ]		4 DEG C	
[X]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WKP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	10		
TEMP (C)	15.7		
pH	6.11		
COND	.218		
TURBIDITY	9		
D.O.	3.25		

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Contaminated wells, well purged dry after 10 gals - Let recharge and sample

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04	DATE	7/11/95
SAMPLE NUMBER (ISIS):	WO GW207XXX01XX	TIME OF ACTIVITY:	START: 845	END: 900	
FIELD QC DATA: ☐	FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace 0 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.61
B. DEPTH TO WATER(FT): 21.14
C. HEIGHT OF WATER(FT):
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 22
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 3.0
I. DIFF WELL AND CASING(FT): -0.17
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	69,70
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	9 3	18 6	29 9
TEMP (C)	13.3	12.7	12.5
pH	6.90	6.63	6.64
COND	.142	.143	.143
TURBIDITY	26	1	0
D.O.	7.5	7.4	7.0

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

PAGE __ OF __

SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/11/95		
SAMPLE NUMBER (ISIS):	WU208XXX01XX GW	TIME OF ACTIVITY:	START: 730 END: 800
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: pp
SATURATED?	NA	OTHER:	Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 25.81
B. DEPTH TO WATER(FT): 20.93
C. HEIGHT OF WATER(FT): 5
D. WELL ID (IN) 2
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.3
I. DIFF WELL AND CASING(FT): -0.12
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
[X]	PID	[X]	BOTTLE	[X]	LIQUINOX
[ ]	RAD METER	[ ]	SPATULA	[X]	DE-IONIZED WATER
[ ]	EXPLOSIMETER	[ ]	ALUM PAN	[ ]	LAB-PROVIDED BLANK WATER
[ ]	OTHER:	[ ]	OTHER:	[ ]	POTABLE WATER
				[ ]	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[ ]		4 DEG C	
[ ]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WKP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	13	26	39
TEMP (C)	12.5	12.0	12.0
pH	6.76	6.71	6.68
COND	118	115	115
TURBIDITY	5	0	0
D.O.	8.47	7.23	7.10

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Bend In well, Grundfos would not fit down well, Had to ~~Sample~~ Purge with the whale pump. Bend is at water table

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

PAGE __ OF __

SOIL
GROUNDWATER

OTHER: _____

PROJECT:	West over AFB	JOB NO.	7452-04
DATE	7/11/94		
SAMPLE NUMBER (ISIS):	WOGW208XXI01XX	TIME OF ACTIVITY:	START: 800 END: 830
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace-0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 62.31
B. DEPTH TO WATER(FT): 27.17
C. HEIGHT OF WATER(FT): 35
D. WELL ID (IN) 2"
E. VOL(GAL): 48
F. HISTORICAL WELL DEPTH(FT): 59
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 3.3
I. DIFF WELL AND CASING(FT): -0.10
J. PURGE VOLUME(GAL): 16
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
X	PID	X	BOTTLE	X	LIQUINOX
☐	RAD METER	☐	SPATULA	X	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
X	VOC	USEPA 8240	N	☐		4 DEG C	
X	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	16	32	48
TEMP (C)	13.8	13.7	13.4
pH	6.03	5.93	5.82
COND	.119	.156	.150
TURBIDITY	2	0	2
D.O.	7.60	5.83	7.06

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: Michael H. Young
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	~~7458~~ 745204	DATE	7/11/95
SAMPLE NUMBER (ISIS):	WO BTXY2 XYYOLXY	TIME OF ACTIVITY:	START: 1545	END: 1545	
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR: _____ ODOR? _____

GRAIN SIZE: _____ PID RDG: _____ UNITS: _____

SATURATED? _____ OTHER: _____

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☐ PID	☐ BOTTLE	☐ LIQUINOX
☐ RAD METER	☐ SPATULA	☐ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☐ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: trip Blank #2

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/11/97
SAMPLE NUMBER (ISIS): WO GW209 XYY01 XY
TIME OF ACTIVITY: START: 1600 END: 1611
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS
COLOR: Clear
ODOR? None

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.36
B. DEPTH TO WATER(FT): 20.22
C. HEIGHT OF WATER(FT): 4
D. WELL ID (IN) 2"
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED? No
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	4	8	12
TEMP (C)	14.4	14.1	
pH	5.33	5.40	
COND	.110	.118	
TURBIDITY	1	7	
D.O.	4.21	4.21	

QA/QC DATA
QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Well purged dry after 2 volumes. Let recharge and sampled

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/11/95
SAMPLE NUMBER (ISIS): WOGW210XX01XX
TIME OF ACTIVITY: START: 1645 END: 1700
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: N/A
PID RDG: 0
UNITS: ppm
SATURATED? N/A
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 32.07
B. DEPTH TO WATER(FT): 23.27
C. HEIGHT OF WATER(FT): 9
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
X	PID	X	BOTTLE	X	LIQUINOX
	RAD METER		SPATULA	X	DE-IONIZED WATER
	EXPLOSIMETER		ALUM PAN		LAB-PROVIDED BLANK WATER
	OTHER:		OTHER:		POTABLE WATER
					METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
X	VOC	USEPA 8240	N			4 DEG C	
	SVOC	USEPA 8270	N			4 DEG C	
	METALS *	see WKP Table 7	N			HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	7	14	21
TEMP (C)	14.3	14.1	14.2
pH	5.15	5.12	5.04
COND	.104	.104	.103
TURBIDITY	0	2	1
D.O.	4.88	3.98	4.99

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE:
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

PAGE __ OF __

SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/11/91		
SAMPLE NUMBER (ISIS):	WO GW 211XXX01XX	TIME OF ACTIVITY:	START: 1730 END: 1800
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 23.37
B. DEPTH TO WATER(FT): 20.22
C. HEIGHT OF WATER(FT): 3
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: (RISER) CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.31
J. PURGE VOLUME(GAL): 3
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? NO
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	13.4	13.2	13.2
pH	5.48	5.41	5.41
COND	.647	.634	.640
TURBIDITY	2	1	1
D.O.	8.30	8.61	8.57

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Well cap can be lifted off the ground, well is not secure

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: _____ JOB NO. 7452-04 DATE 7/1/95

SAMPLE NUMBER (ISIS): ~~WO BS~~ WO BSX62XXXXXXX TIME OF ACTIVITY: START: 1745 END: 1745

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED DUPLICATE ID NO. _____

SAMPLE OBSERVATIONS

COLOR: _____ ODOR? _____

GRAIN SIZE: _____ PID RDG: _____ UNITS: _____

SATURATED? _____ OTHER: _____

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RIBER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
K. WELL LOCKED?
L. PROTECTIVE CASING SECURE?
M. CONCRETE APRON INTACT?
N. WELL MAREINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☐	PID	☐	BOTTLE	☑	LIQUINOX
☐	RAD METER	☐	SPATULA	☑	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☑	VOC	USEPA 8240	N	☐		4 DEG C	_____
☑	SVOC	USEPA 8270	N	☐		4 DEG C	_____
☐	METALS *	see WKP Table 7	N	☐		HNO3	_____

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Sampler Blank #2

SIGNATURE: [signature]
RECEIVED BY: _____

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/12/95
SAMPLE NUMBER (ISIS): WOGW 212I XXXXXX
TIME OF ACTIVITY: START: 730 END: 800
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace 0 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 62
B. DEPTH TO WATER(FT): 28.36
C. HEIGHT OF WATER(FT): 34
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 62
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 1.55
I. DIFF WELL AND CASING(FT): -0.22
J. PURGE VOLUME(GAL): 15
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? No
Well Read 212 not 212I

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	15	30	45
TEMP (C)	13.6	13.4	13.4
pH	5.86	5.85	5.81
COND	254	222	208
TURBIDITY	0	0	0
D.O.	5.75	5.58	5.88

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Bottom Depth Reading 62', Sampled Well

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/12/96
SAMPLE NUMBER (ISIS): WO GW XX2 XXD 01XX
TIME OF ACTIVITY: START: 830 END: 900
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Head space - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 100.42
B. DEPTH TO WATER(FT): 26.51
C. HEIGHT OF WATER(FT): 74
D. WELL ID (IN) 7"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 97
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.15
I. DIFF WELL AND CASING(FT): -0.23
J. PURGE VOLUME(GAL): 20
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	20	40 60	60
TEMP (C)	13.4	13.4	13.4
pH	6.15	6.13	6.15
COND	.232	.230	.230
TURBIDITY	0	0	0
D.O.	4.42	5.30	7.49

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/12/95
SAMPLE NUMBER (ISIS): WO GW213XY L01XY
TIME OF ACTIVITY: START: 1000 END: 1030
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 62.14
B. DEPTH TO WATER(FT): 24.72
C. HEIGHT OF WATER(FT): 37
D. WELL ID (IN) 2"
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT): 60
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.03
I. DIFF WELL AND CASING(FT): -0.22
J. PURGE VOLUME(GAL): 15
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? NO
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	15	30	45
TEMP (C)	13.2	13.3	13.1
pH	5.85	5.83	5.82
COND	118	128	131
TURBIDITY	0	0	0
D.O.	4.56	3.90	3.11

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04	DATE	7/12/95
SAMPLE NUMBER (ISIS):	WO GW 214 XYI 01 XY	TIME OF ACTIVITY:	START: 1035	END: 1160	
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	none
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace -

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 61.70
B. DEPTH TO WATER(FT): 27.56
C. HEIGHT OF WATER(FT): 34
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 60
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.4
I. DIFF WELL AND CASING(FT): -0.29
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Y
K. PROTECTIVE CASING SECURE? Y
L. CONCRETE APRON INTACT? NO
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	15	30	45
TEMP (C)	13.4	13.5	
pH	5.54	5.48	
COND	.180	.182	
TURBIDITY	367	5	
D.O.	5.01	4.99	

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: well purged dry after 2 volumes, Let recharge and sampled

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7652-04
DATE 7/12/97
SAMPLE NUMBER (ISIS): WO BTX03XXX01XX
TIME OF ACTIVITY: START: 1200 END: 1300
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR:
ODOR?
GRAIN SIZE:
PID RDG:
UNITS:
SATURATED?
OTHER:

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RIMER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☐	PID	☐	BOWLE	☐	LIQUINOX
☐	RAD METER	☐	SPATULA	☐	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☐	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Trip Blank #3

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/12/95
SAMPLE NUMBER (ISIS): WO GW 601 XYY01XY
TIME OF ACTIVITY: START: 1300 END: 1330
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? none
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 30.82
B. DEPTH TO WATER(FT): ~~30.87~~ 21.20
C. HEIGHT OF WATER(FT): ~~9~~ 9.78
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 29
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	8	16	24
TEMP (C)	19.5		
pH	5.18		
COND	.085		
TURBIDITY	75		
D.O.	5.97		

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: well purged dry after 1 volume, let recharge and sample

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/13/95
SAMPLE NUMBER (ISIS): WO GW301 XX601XX
TIME OF ACTIVITY: START: 715 END: 730
FIELD QC DATA: [X] FIELD DUPLICATE COLLECTED
DUPLICATE ID NO. WO GW302 XX601XX

SAMPLE OBSERVATIONS

COLOR: Heavy Orange Flocc
ODOR? very Slight Fuel-like
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 9

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 36.15
B. DEPTH TO WATER(FT): 27.65
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT): 34
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.01
I. DIFF WELL AND CASING(FT): -0.11
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
[X]	PID	[X]	BOTTLE	[X]	LIQUINOX
[ ]	RAD METER	[ ]	SPATULA	[X]	DE-IONIZED WATER
[ ]	EXPLOSIMETER	[ ]	ALUM PAN	[ ]	LAB-PROVIDED BLANK WATER
[ ]	OTHER:	[ ]	OTHER:	[ ]	POTABLE WATER
				[ ]	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[ ]		4 DEG C	
[X]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WEP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	7	14	21
TEMP (C)	12.9	12.7	12.7
pH	6.33	6.33	6.29
COND	.103	.107	.107
TURBIDITY	7	6	5
D.O.	1.82	1.74	0.70

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: WO GW301 XX601XR
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Heavy orange Flocc

SIGNATURE: Scott Allocca
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 745204
DATE 7/13/97
SAMPLE NUMBER (ISIS): WO GW 302XXY01XX
TIME OF ACTIVITY: START: 720 END: 740
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Orange Floc
ODOR? None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Head Space - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 35.73
B. DEPTH TO WATER(FT): 26.96
C. HEIGHT OF WATER(FT):
D. WELL ID (IN) 2"
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT): 34
G. MEASURED FROM: (RISER) CASING
H. CASING STICK-UP(FT): 2.05
I. DIFF WELL AND CASING(FT): -0.20
J. PURGE VOLUME(GAL):
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	8	16	24
TEMP (C)	12.2	12.0	11.9
pH	6.01	6.01	6.01
COND	.100	.100	.101
TURBIDITY	2	4	0
D.O.	1.97	2.13	1.91

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04	DATE	7/12/95
SAMPLE NUMBER (ISIS):	WOGW303XXXO1XX	TIME OF ACTIVITY:	START: 1650	END: ~~1815~~ 1715	
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR:	Light orange/Flock	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 26.51
B. DEPTH TO WATER(FT): 21.51
C. HEIGHT OF WATER(FT): 5
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 25
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 1.8
I. DIFF WELL AND CASING(FT): -0.16
J. PURGE VOLUME(GAL): 4
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? No
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	~~12~~ 4	~~24~~ 8	~~3~~ 12
TEMP (C)	13.5	12.7	12.7
pH	5.81	5.51	5.65
COND	.069	.070	.070
TURBIDITY	1	0	0
D.O.	2.63	2.44	2.77

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/12/97
SAMPLE NUMBER (ISIS): WOGW304XYA01XY
TIME OF ACTIVITY: START: 1700 END: 1730
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR: Slight - Fuel like
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 39.91
B. DEPTH TO WATER(FT): 26.66
C. HEIGHT OF WATER(FT): 13
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 38
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.7
I. DIFF WELL AND CASING(FT): -0.18
J. PURGE VOLUME(GAL): 12
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	12	24	36
TEMP (C)	13.6	13.2	13.1
pH	6.04	5.97	5.94
COND	.061	.063	.063
TURBIDITY	0	0	0
D.O.	3.32	3.77	2.78

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [illegible]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/12/91
SAMPLE NUMBER (ISIS): WO GW 305 XTX 01 XY
TIME OF ACTIVITY: START: 1320 END: 1341
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? none
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 32.05
B. DEPTH TO WATER(FT): 27.46
C. HEIGHT OF WATER(FT): 5
D. WELL ID (IN) 2
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT): 30
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.1
I. DIFF WELL AND CASING(FT): -0.24
J. PURGE VOLUME(GAL): 5
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	~~5~~ 5	10	~~7~~ 15
TEMP (C)	13.4	13.5	13.3
pH	5.91	5.74	5.74
COND	.072	.074	.074
TURBIDITY	0	0	0
D.O.	5.3	5.44	5.5

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE _ OF _

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 9/12/97
SAMPLE NUMBER (ISIS): WOGW305XXI01XX
TIME OF ACTIVITY: START: 1330 END: ~~1350~~ 1445 1445
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? Slight fuel
GRAIN SIZE: NA
PID RDG: 0 UNITS: ppm
SATURATED? NA
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 37.40
B. DEPTH TO WATER(FT): 27.22
C. HEIGHT OF WATER(FT): 10
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 35
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.5
I. DIFF WELL AND CASING(FT): -0.10
J. PURGE VOLUME(GAL): 9
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☒	RAD METER	☐	SPATULA	☐	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	9 9	18	27
TEMP (C)	13.9	14.2	13.5
pH	6.01	6.00	6.02
COND	.088	.086	.086
TURBIDITY	0	0	0
D.O.	3.55	3.31	3.27

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/13/95
SAMPLE NUMBER (ISIS): WO GW306 xxx 01xx
TIME OF ACTIVITY: START: 1330 END: 1345
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: N/A
PID RDG: 0
UNITS: ppm
SATURATED? N/A
OTHER: Heads of Arco-Co

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 28.69
B. DEPTH TO WATER(FT): 25.27
C. HEIGHT OF WATER(FT): 4
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 30
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.26
J. PURGE VOLUME(GAL): 3
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	17.1	13.3	13.2
pH	6.20	6.12	6.08
COND	.079	.081	.082
TURBIDITY	3	0	0
D.O.	1.47	1.58	1.31

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/12/95
SAMPLE NUMBER (ISIS): WOGW307XYY01XY
TIME OF ACTIVITY: START: 1545 END: 1600
FIELD QC DATA: [X] FIELD DUPLICATE COLLECTED
DUPLICATE ID NO. WOGW307XYY01XD

SAMPLE OBSERVATIONS

COLOR: clear
ODOR? Strong fuel-like
GRAIN SIZE: NA
PID RDG: 44
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 160 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): ~~2031~~ 34.45
B. DEPTH TO WATER(FT): 20.31
C. HEIGHT OF WATER(FT): 14
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 35
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): F/W/A
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL): 13
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
[X] PID	[X] BOTTLE	[X] LIQUINOX
[ ] RAD METER	[ ] SPATULA	[X] DE-IONIZED WATER
[ ] EXPLOSIMETER	[ ] ALUM PAN	[ ] LAB-PROVIDED BLANK WATER
[ ] OTHER:	[ ] OTHER:	[ ] POTABLE WATER
		[ ] METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[ ]		4 DEG C	
[ ]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WKP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	12	24	36
TEMP (C)	13.1	13.1	12.8
pH	5.97	5.92	5.89
COND	.050	.050	.050
TURBIDITY	0	0	0
D.O.	0.97	0.83	1.06

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
WOGW307XYY01XR
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Continuous seal well

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04	DATE	~~26580~~ 7/12/95
SAMPLE NUMBER (ISIS):	WO B+XX2 XX+01XR	TIME OF ACTIVITY:	START: 1600	END: 1600	
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR: _____ ODOR? _____

GRAIN SIZE: _____ PID RDG: _____ UNITS: _____

SATURATED? _____ OTHER: _____

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☐ PID	☐ BOTTLE	☐ LIQUINOX
☐ RAD METER	☐ SPATULA	☐ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☐ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: trip Blank #2 - Wen LAB

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/13/96
SAMPLE NUMBER (ISIS): WOGW 401 XXY 01 XY
TIME OF ACTIVITY: START: 1630 END: 1700
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? none
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace 0 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 34.85
B. DEPTH TO WATER(FT): 21.70
C. HEIGHT OF WATER(FT): 3
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 23
G. MEASURED FROM: (RISER) CASING
H. CASING STICK-UP(FT): 2.3
I. DIFF WELL AND CASING(FT): -0.22
J. PURGE VOLUME(GAL): 3
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes
Scratched on side of well

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	13.0	12.6	12.6
pH	5.83	5.80	5.76
COND	205	201	200
TURBIDITY	1	0	0
D.O.	7.42	7.57	8.91

CS

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover ARB	JOB NO.	7/14/91
DATE	7/14/91		
SAMPLE NUMBER (ISIS):	WOGW402 XXX01XX	TIME OF ACTIVITY:	START: 1330 END: 1430
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	Slight fuel odor
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace 7 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.70
B. DEPTH TO WATER(FT): 22.13
C. HEIGHT OF WATER(FT): 3
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 23
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.1
I. DIFF WELL AND CASING(FT): -0.21
J. PURGE VOLUME(GAL): 3
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☑	PID	☑	BOTTLE	☑	LIQUINOX
☐	RAD METER	☐	SPATULA	☑	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☑	VOC	USEPA 8240	N	☐		4 DEG C	
☑	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	2	2
TEMP (C)	14.2	13.9	13.8
pH	6.35	6.31	6.22
COND	.197	.202	.209
TURBIDITY	5	0	0
D.O.	0.29	0.40	0.40

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

PAGE __ OF __

SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/17/95		
SAMPLE NUMBER (ISIS):	Wo GW 403 XXX01 XX	TIME OF ACTIVITY:	START: 1705 END: ~~1715~~ 1730
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace 0 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 26.79
B. DEPTH TO WATER(FT): 21.83
C. HEIGHT OF WATER(FT): 5
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.3
I. DIFF WELL AND CASING(FT): -0.21
J. PURGE VOLUME(GAL): 4
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	4	8	12
TEMP (C)	9.7	9.7	9.5
pH	5.83	5.81	5.82
COND	.026	.027	.028
TURBIDITY	0	0	0
D.O.	8.12	7.74	7.74

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Well is bent from bldg not by truck

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/14/95		
SAMPLE NUMBER (ISIS):	WJGW404XXX01XX	TIME OF ACTIVITY:	START: 715 END: 745
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 25.22
B. DEPTH TO WATER(FT): 22.70
C. HEIGHT OF WATER(FT): 3
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 25
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.7
I. DIFF WELL AND CASING(FT): -0.22
J. PURGE VOLUME(GAL): 3
J. WELL LOCKED? NO - Lock was not Locked
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	12.4	12.2	12.2
pH	6.17	6.18	6.18
COND	109	117	119
TURBIDITY	0	0	0
D.O.	7.12	7.10	7.91

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Lock was not Locked

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT: Westover AFB ~~WO GW 405 xxx olxx~~ MPL

JOB NO. 7452-04 DATE 7/14/97

SAMPLE NUMBER (ISIS): WO GW 405 xxx olxx

TIME OF ACTIVITY: START: 7YT END: 800

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED

DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear

ODOR? None

GRAIN SIZE: NA

PID RDG: 0 UNITS: ppm

SATURATED? NA

OTHER: Headspace - 1.1

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.73
B. DEPTH TO WATER(FT): 20.04
C. HEIGHT OF WATER(FT): 5
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? NO
M. WELL MARKINGS READABLE? NO

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	4	8	12
TEMP (C)	12.4	12.2	12.1
pH	5.92	5.92	5.91
COND	501	490	486
TURBIDITY	0	0	0
D.O.	2.62	2.24	2.26

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Well CAP/CAlng is completely Broken, the well is not Secure

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04 7449
DATE 7/14/97
SAMPLE NUMBER (ISIS): WO GW 406 XYY 01 XY
TIME OF ACTIVITY: START: 1130 END: 1200
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? Fuel-like
GRAIN SIZE: NA
PID RDG: 6 UNITS: ppm
SATURATED? NA
OTHER: Headspace – 7.5

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 26.11
B. DEPTH TO WATER(FT): 20.59
C. HEIGHT OF WATER(FT): 3
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.4
I. DIFF WELL AND CASING(FT): ~0.05
J. PURGE VOLUME(GAL): 3
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	14.0	13.3	13.3
pH	6.36	6.29	6.24
COND	.271	.273	.280
TURBIDITY	1	0	1
D.O.	0.18	0.42	0.60

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/14/95		
SAMPLE NUMBER (ISIS):	WO GW 406XXT 01XX	TIME OF ACTIVITY:	START: 1135 END: ~~1[illegible]~~ 1215
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	Fuel-like
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace - 26

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 41.46
B. DEPTH TO WATER(FT): 22.12
C. HEIGHT OF WATER(FT): 20
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 40
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.4
I. DIFF WELL AND CASING(FT): -0.34
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	18	36	39
TEMP (C)	15.1	14.3	14.5
pH	89 ~~.311~~ 6.47	6.45	6.45
COND	89 ~~0~~ .311	.313	.312
TURBIDITY	0	0	0
D.O.	0.58	1.44	0.61

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Contaminated well

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/14/
SAMPLE NUMBER (ISIS): WO GW 407 XX I01 XX
TIME OF ACTIVITY: START: 925 END: 945
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 61.89
B. DEPTH TO WATER(FT): 27.24
C. HEIGHT OF WATER(FT): 40
D. WELL ID (IN) 5
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 60
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.2
I. DIFF WELL AND CASING(FT): -0.10
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	17	34	51
TEMP (C)	13.9	13.9	13.9
pH	6.40	6.34	6.33
COND	.249	.272	.277
TURBIDITY	3	1	1
D.O.	0.44	0.40	0.46

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/14/97		
SAMPLE NUMBER (ISIS):	WO GW409 XXI01XX	TIME OF ACTIVITY:	START: 817 END: 830
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	turbid-Black	ODOR?	Slight fuel-like
GRAIN SIZE:	WA	PID RDG:	5.3 UNITS: ppm
SATURATED?	WA	OTHER:	Headspace - 4.8 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 33.04
B. DEPTH TO WATER(FT): 22.29
C. HEIGHT OF WATER(FT):
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 33
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.24
J. PURGE VOLUME(GAL):
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	8		
TEMP (C)	16.4		
pH	6.47		
COND	1.14		
TURBIDITY	56		
D.O.	4.52		

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Purged dry after 8 gallons
Slow recharge

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	745204	DATE	7/14/97
SAMPLE NUMBER (ISIS):	WOGW410XY001XX	TIME OF ACTIVITY:	START: 840	END: 840	
FIELD QC DATA: ☐	FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	Slight Fuel-like
GRAIN SIZE:	NA	PID RDG:	1.2 UNITS: ppm
SATURATED?	NA	OTHER:	Head Space - 4.0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 53.35
B. DEPTH TO WATER(FT): 21.64
C. HEIGHT OF WATER(FT): 31
D. WELL ID (IN)
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT): 53
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.42
I. DIFF WELL AND CASING(FT): -0.17
J. PURGE VOLUME(GAL): 15
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? NO

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	15	30	45
TEMP (C)	14.8	14.8	14.6
pH	6.67	6.65	6.64
COND	.413	.416	.416
TURBIDITY	80	8	3
D.O.	6.21	1.77	1.04

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/14/97
SAMPLE NUMBER (ISIS): WO GW 4 TOXY 1 0187
WO GS XX4X XOXX
TIME OF ACTIVITY: START: 841 END: 900 SY
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR:
ODOR?
GRAIN SIZE: NA
PID REG:
UNITS:
SATURATED? NA
OTHER:

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☐	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☐	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Sampler Blank #V2 L1

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover NRB
JOB NO. 7452-04
DATE 7/14/95
SAMPLE NUMBER (ISIS): WO GWS01XW01XX
TIME OF ACTIVITY: START: 1630 END: 1630
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear/Orange
ODOR? Slight Fuel
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 2

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 26.59
B. DEPTH TO WATER(FT): 19.17
C. HEIGHT OF WATER(FT): 6
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.2
I. DIFF WELL AND CASING(FT): -0.25
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☒	SPATULA	☒	DI-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	5	10	15
TEMP (C)	13.4	12.9	13.4
pH	6.00	5.91	6.00
COND	.044	.047	.048
TURBIDITY	1	0	0
D.O.	1.84	2.03	2.39

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/13/97		
SAMPLE NUMBER (ISIS):	WGGW 502 XXX 01XY	TIME OF ACTIVITY:	START: 1710 END: 1730
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Orange	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 ~~PID~~
UNITS:			
SATURATED?	NA	OTHER:	Head space - ~~X~~ 2

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.73
B. DEPTH TO WATER(FT): 18.02
C. HEIGHT OF WATER(FT): 7
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.4
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? No

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☑	PID	☑	BOTTLE	☑	LIQUINOX
☐	RAD METER	☐	SPATULA	☑	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☑	VOC	USEPA 8240	N	☐		4 DEG C	
☑	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	6	12	18
TEMP (C)	15.4	15.2	15.1
pH	6.14	6.11	6.13
COND	.151	.155	.157
TURBIDITY	104	21	15
D.O.	0.67	0.66	0.75

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Very Heavy orange floats

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: WESTOVER AFB
JOB NO. 2412-04
DATE 7/14/01
SAMPLE NUMBER (ISIS): WO GW 503 YY 01 YY
TIME OF ACTIVITY: START: 1450 END: 1500
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? Fuel-like
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 26

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.61
B. DEPTH TO WATER(FT): 17.19
C. HEIGHT OF WATER(FT): 7
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	6	12	18
TEMP (C)	14.5	13.8	13.9
pH	5.97	5.94	5.94
COND	.183	.188	.190
TURBIDITY	0	0	0
D.O.	0.71	0.76	0.74

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: Michael H. [illegible]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:) SOIL / GROUNDWATER / OTHER: _____

PROJECT: Westover ARB ~~WW-GW-SGY YYYO1XX~~ MLC

JOB NO. 7412-04 DATE 7/14/97

SAMPLE NUMBER (ISIS): WW GW SGY YYYO1XX

TIME OF ACTIVITY: START: 1400 END: 1441

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED

DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear

ODOR? Slight odor

GRAIN SIZE: N/A

PID RDG: 0 UNITS: ppm

SATURATED? NA

OTHER: Headspace - 2

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.62
B. DEPTH TO WATER(FT): 20.30
C. HEIGHT OF WATER(FT): 4
D. WELL ID (IN) 2"
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 3.3
I. DIFF WELL AND CASING(FT): -0.11
J. PURGE VOLUME(GAL): 3
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	1	2	3
TEMP (C)	16.2	15.2	15.5
pH	6.19	6.07	6.08
COND	.137	.138	.139
TURBIDITY	0	0	0
D.O.	1.29	0.68	.39

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: Michael H. [illegible]

RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04	DATE	7/13/95
SAMPLE NUMBER (ISIS):	WO GW 505 XXX01XX	TIME OF ACTIVITY:	START: 830	END: 900	
FIELD QC DATA: ☐	FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 23.47
B. DEPTH TO WATER(FT): 19.15
C. HEIGHT OF WATER(FT): 4
D. WELL ID (IN) 2"
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: (REF) / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Spray paint on pavement

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	14.0	13.5	13.5
pH	5.91	5.90	5.87
COND	.065	.066	.067
TURBIDITY	3	0	0
D.O.	5.9	6.07	5.95

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: no well cap, alot of debris had fallen into the well.

SIGNATURE: Michael H. Lowry
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/13/95		
SAMPLE NUMBER (ISIS):	WOGW506XX40XX	TIME OF ACTIVITY:	START: 940 END: 1015
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 23.73
B. DEPTH TO WATER(FT): 19.83
C. HEIGHT OF WATER(FT): 4
D. WELL ID (IN) 2"
E. VOL (GAL): 3
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.31
J. PURGE VOLUME(GAL): 3
I. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	14.5	14.1	14.1
pH	6.02	5.85	5.83
COND	8~~.00~~ .050	.048	.049
TURBIDITY	3	0	0
D.O.	7.03	4.38	3.98

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: No well CAP

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

PAGE __ OF __

SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	745304
DATE	7/13/95		
SAMPLE NUMBER (ISIS):	WS GW806 XXI01XX	TIME OF ACTIVITY:	START: 945 END: 1000
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	Fuel - Coke
GRAIN SIZE:	NA	PID RDG:	16 UNITS: ppm
SATURATED?	NA	OTHER:	Head space - 106

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 43.41
B. DEPTH TO WATER(FT): 19.98
C. HEIGHT OF WATER(FT): 24
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 45
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.27
J. PURGE VOLUME(GAL):
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	12	24	36
TEMP (C)	14.3	14.1	14.1
pH	6.49	6.41	6.44
COND	102	102	103
TURBIDITY	2	1	1
D.O.	1.22	1.36	1.14

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: No well CAP, Containerized WPII

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04
DATE	7/13/97		
SAMPLE NUMBER (ISIS):	WO GW 507 XYX 01XY	TIME OF ACTIVITY:	START: 1845 END: 1615
FIELD QC DATA:	[X] FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	WO GW 507XYX01X D

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace 0 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.81
B. DEPTH TO WATER(FT): 20.56
C. HEIGHT OF WATER(FT): 4
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 22
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.5
I. DIFF WELL AND CASING(FT): -0.18
J. PURGE VOLUME(GAL): 8
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
[X]	PID	[X]	BOTTLE	[X]	LIQUINOX
[ ]	RAD METER	[ ]	SPATULA	[X]	DE-IONIZED WATER
[ ]	EXPLOSIMETER	[ ]	ALUM PAN	[ ]	LAB-PROVIDED BLANK WATER
[ ]	OTHER:	[ ]	OTHER:	[ ]	POTABLE WATER
				[ ]	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[ ]		4 DEG C	
[ ]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WKP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	13.4	13.4	13.1
pH	6.09	6.09	6.05
COND	.233	.251	.258
TURBIDITY	1	0	0
D.O.	7.79	7.62	7.67

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: WO GW 507XYX01XR
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	WESTOVER AFB	JOB NO.	7458-04	DATE	7/13/94
SAMPLE NUMBER (ISIS):	WO GW 508XXX 01XX	TIME OF ACTIVITY:	START: 1700	END: 1730	
FIELD QC DATA: ☐	FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.83
B. DEPTH TO WATER(FT): 20.83
C. HEIGHT OF WATER(FT):
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 22
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.4
I. DIFF WELL AND CASING(FT): -0.27
J. PURGE VOLUME(GAL): 3
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	13.5	13.3	13.1
pH	5.80	5.74	5.72
COND	.117	.118	.120
TURBIDITY	1	0	0
D.O.	7.63	6.74	7.26

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7412-04
DATE 7/17/97
SAMPLE NUMBER (ISIS): WO GW 510XX1 01XX
TIME OF ACTIVITY: START: 800 END: 830 930
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? none
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Head Space = 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 67.69
B. DEPTH TO WATER(FT): +22.72
C. HEIGHT OF WATER(FT): 45
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 65
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.8
I. DIFF WELL AND CASING(FT): -0.19
J. PURGE VOLUME(GAL): 40
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☒ PID	☒ BOTTLE	☐ LIQUINOX
☐ RAD METER	☐ SPATULA	☐ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☐ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	40	50	60
TEMP (C)	15.1	14.1	14.3
pH	6.13	6.01	6.02
COND	152	.153	.153
TURBIDITY	0	0	0
D.O.	0.49	1.05	0.74

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	74SR-04	DATE	7/17/01
SAMPLE NUMBER (ISIS):	WO BXX3 XXX01XX	TIME OF ACTIVITY:	START: 915	END: 94	
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.			

SAMPLE OBSERVATIONS

COLOR: _____ ODOR? _____

GRAIN SIZE: _____ PID RDG: _____ UNITS: _____

SATURATED? _____ OTHER: _____

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☐	PID	☐	BOTTLE	☐	LIQUINOX
☐	RAD METER	☐	SPATULA	☐	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
X	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Rinsate Blank #3

SIGNATURE: [signature]
RECEIVED BY: _____

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/13/95
SAMPLE NUMBER (ISIS): WOGWXX45XX001XX
TIME OF ACTIVITY: START: 1345 END: 1415
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear / Light orange
ODOR? None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace - 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 67.55
B. DEPTH TO WATER(FT): 29.62
C. HEIGHT OF WATER(FT): 38
D. WELL ID (IN) 2"
E. VOL.(GAL):
F. HISTORICAL WELL DEPTH(FT): 65
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.5
I. DIFF WELL AND CASING(FT): -0.16
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? No
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	15	35	4..
TEMP (C)	14.8	14.8	14.6
pH	6.51	6.48	6.57
COND	.191	.152	.194
TURBIDITY	3	2	1
D.O.	1.44	1.23	1.54

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 5/13/91
SAMPLE NUMBER (ISIS): WO B+XY4 XY401 XY
TIME OF ACTIVITY: START: 1611 END: 1711
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR:
ODOR?
GRAIN SIZE:
PID RDG:
UNITS:
SATURATED?
OTHER:

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☐	PID	☐	BOTTLE	☐	LIQUINOX
☐	RAD METER	☐	SPATULA	☐	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☑	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: trip Blank #4

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7452-04 ~~7/2~~
DATE	7/13/94		
SAMPLE NUMBER (ISIS):	WO BTXX3XXX01XR	TIME OF ACTIVITY:	START: 1600 END: 1601
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR: _____ ODOR? _____

GRAIN SIZE: _____ PID RDG: _____ UNITS: _____

SATURATED? _____ OTHER: _____

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☐ PID	☐ BOTTLE	☐ LIQUINOX
☐ RAD METER	☐ SPATULA	☐ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☐ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: trip Blank #3 for the Well Lad

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover
JOB NO. 7452-01
DATE 7/15/91
SAMPLE NUMBER (ISIS): WU GW 701 XXX01 XX
TIME OF ACTIVITY: START: 1030 END: 1100
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: ~~Clear~~ Light SL. turbid
ODOR? Fuel-like
GRAIN SIZE: NA
PID READ: 0
UNITS: ppm
SATURATED? NA
OTHER: Head Space - 66 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 32.32
B. DEPTH TO WATER(FT): 21.06
C. HEIGHT OF WATER(FT): 11
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 30
G. MEASURED FROM: (RISER) CASING
H. CASING STICK-UP(FT): 2.7
I. DIFF WELL AND CASING(FT): -0.41
J. PURGE VOLUME(GAL): 10
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☒	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	10	20	30
TEMP (C)	12.5	12.4	12.4
pH	5.68	5.66	5.64
COND	.069	.069	.069
TURBIDITY	2	3	5
D.O.	0.46	0.36	0.40

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Continuing well.

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover NFB
JOB NO. 7452-04
DATE 7/15/98
SAMPLE NUMBER (ISIS): WOGW 702 XYY01XY
TIME OF ACTIVITY: START: 1000 END: 1030
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR? None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace 0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.01
B. DEPTH TO WATER(FT): 20.83
C. HEIGHT OF WATER(FT): 3
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 22
G. MEASURED FROM: (RISER) CASING
H. CASING STICK-UP(FT): 2.0
I. DIFF WELL AND CASING(FT): -0.20
J. PURGE VOLUME(GAL): 3
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? NO
remarked well on the inside and out

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☒ PID	☒ BOTTLE	☒ LIQUINOX
☐ RAD METER	☐ SPATULA	☒ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☐ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☑	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	12.6	12.5	12.4
pH	6.09	6.02	5.95
COND	.053	.054	.054
TURBIDITY	86	18	6
D.O.	~~8.05~~ 6.95	6.96	7.13

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 745204
DATE 7/15/91
SAMPLE NUMBER (ISIS): 600BSXYSXXY01XY
TIME OF ACTIVITY: START: 1015 END: 1043
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR:
ODOR?
GRAIN SIZE:
PID RDG:
UNITS:
SATURATED?
OTHER:

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT):
B. DEPTH TO WATER(FT):
C. HEIGHT OF WATER(FT):
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT):
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT):
I. DIFF WELL AND CASING(FT):
J. PURGE VOLUME(GAL):
J. WELL LOCKED?
K. PROTECTIVE CASING SECURE?
L. CONCRETE APRON INTACT?
M. WELL MARKINGS READABLE?

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☐	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☐	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME			
TEMP (C)			
pH			
COND			
TURBIDITY			
D.O.			

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Sampler Blank #5

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 7452-04
DATE 7/1/95
SAMPLE NUMBER (ISIS): WO GW 704 XX 01 XX
TIME OF ACTIVITY: START: 930 END: 1000
FIELD QC DATA: [X] FIELD DUPLICATE COLLECTED
DUPLICATE ID NO. WO GW 704 XX 01 XD

SAMPLE OBSERVATIONS

COLOR: Clear / Foamy
ODOR? Fuel (Strong)
GRAIN SIZE: NA
PID RDG: 18 UNITS: ppm
SATURATED? NA
OTHER: Headspace of 32 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): —
B. DEPTH TO WATER(FT): 26.69
C. HEIGHT OF WATER(FT):
D. WELL ID (IN) 2"
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 27
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.3
I. DIFF WELL AND CASING(FT): -0.21
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? No - Fully Apart
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
[X]	PID	[X]	BOTTLE	[X]	LIQUINOX
[ ]	RAD METER	[ ]	SPATULA	[X]	DE-IONIZED WATER
[ ]	EXPLOSIMETER	[ ]	ALUM PAN	[ ]	LAB-PROVIDED BLANK WATER
[ ]	OTHER:	[ ]	OTHER:	[ ]	POTABLE WATER
				[ ]	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[ ]		4 DEG C	
[X]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WEP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	5	10	15
TEMP (C)	13.1	12.8	12.7
pH	6.24	5.84	5.81
COND	.083	.086	.088
TURBIDITY	2	1	0
D.O.	1.39	0.52	0.24

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: WO GW 704 XX 01 XR
QC SAMPLE(S) TAKEN?
ISIS CODE: WO GW XXX 01 MS MD

NOTES: top of Product 26.00
WL 26.69
MS/MSD/Dup/Rep

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

PAGE __ OF __

SOIL
GROUNDWATER

OTHER: _____

PROJECT:	Westover AFB	JOB NO.	7412-04 ~~7/15/95~~
DATE	7/15/95		
SAMPLE NUMBER (ISIS):	WO GW 707 XXY 01 XX	TIME OF ACTIVITY:	START: 1115 END: 1141
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR?	Fuel-Like
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace - 11 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 28.97
B. DEPTH TO WATER(FT): 25.23
C. HEIGHT OF WATER(FT): 3
D. WELL ID (IN)
E. VOL (GAL):
F. HISTORICAL WELL DEPTH(FT): 30
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.2
I. DIFF WELL AND CASING(FT): -0.20
J. PURGE VOLUME(GAL):
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? NO
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☒ PID	☒ BOTTLE	☒ LIQUINOX
☐ RAD METER	☐ SPATULA	☒ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☐ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☐		4 DEG C	
☒	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	14.3		
pH	10.09		
COND	.206		
TURBIDITY	71		
D.O.	2.23		

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: well purged Dry after 1 Volume containerized wel.

SIGNATURE: [signature]
RECEIVED BY:

FIGURE 5-4
FIELD DATA RECORD

A-4 WATER LEVEL DATA SHEETS

WATER LEVEL DATA SHEET

ABB
ABB Environmental Services, Inc.

Personnel: M. Lounsbury
Time In: 7/10/95
Time Out: 7/15/95

Date: 7/19/95
Location: Westover AFB
Client: USACE - NED
Job Number: 7452-04
Weather: Sunny Hot
Recent Weather: Sunny and very Hot, Very Dry
Sheet # 1 of 2

WELL NO.	TIME Time	TIME Date	DEPTH TO WATER	ELEVATION	REFERENCE PT (TOC, TOR)	GROUNDWATER ELEVATION	REMARKS	
GW-101	1600	7/10	28.90				rusty Lock	GW-101
GW-102	1700	7/10	30.71				rusty Lock	GW-102
GW-201	1000	7/15	19.21					
GW-202	745	7/15	19.52					
GW-203	1430	7/11	19.69				needs a new Lock	GW-203
GW-204	830	7/15	20.28					
GW-205B	845	7/15	22.31				purged dry	GW-205B
GW-206	1500	7/11	21.54					
GW-206I	1510	7/11	23.46					
GW-207	900	7/11	21.14					
GW-208	800	7/11	20.43				Bent in well	GW-208
GW-208I	830	7/11	27.17					
GW-209	1615	7/11	20.22					
GW-210	1700	7/11	23.27					
GW-211	1800	7/11	20.22				CASING CAP not Secure.	GW-210
GW-212I	800	7/12	28.36					
GW-213I	1030	7/12	24.72					
GW-214I	1100	7/12	27.56				Purged dry	GW-214I
GW-601	1330	7/12	21.20					
GW-301	1345	7/12	27.46					
GW-20	900	7/12	26.51					
GW-301	730	7/13	27.65					
GW-302	740	7/13	20.46					
GW-303	1715	7/12	21.51					
GW-304	Destroyed							
GW-304A	1730	7/12	26.56					
GW-305I	1445	7/12	27.22					
GW-306	1345	7/13	25.27					
GW-307	1600	7/12	20.31					

9406002D(B)

FIGURE 5-5
WATER LEVEL DATA SHEET

WATER LEVEL DATA SHEET

ABB
ABB Environmental Services, Inc.

Personnel: M. Lounsbury
Time In: 7/10/95
Time Out: 7/15/95

Date: 7/19/95
Location: Westover AFB
Client: USACE-NED
Job Number: 7452-04
Weather:
Recent Weather:

Sheet # 2 of 2

WELL NO.	TIME (time)	DATE	DEPTH TO WATER	ELEVATION	REFERENCE PT (TOC, TOR)	GROUNDWATER ELEVATION	REMARKS	
GW-308 I	Destroyed							
GW-~~A~~50	1415	7/13	29.62					
GW-401	1700	7/13	21.70					
GW-402	1430	7/14	22.13					
GW-403	1730	7/14	21.83				well is Bent	-GW-403
GW-404	745	7/14	22.70				Needs a new Lock	GW-404
GW-405	800	7/14	20.04				Hit By Plow	GW-405
GW-406	1200	7/14	22.54					
GW-406I	1215	7/14	22.12					
GW-407I	945	7/14	22.29					
GW-408I	Destroyed							
GW-410 O	840	7/14	21.64					
GW-409 I	830	7/14	22.29				purged dry	GW-409
GW-501	1630	7/14	19.17					
GW-502	1730	7/14	18.02					
GW-503	1500	7/14	17.19					
GW-504	1445	7/14	20.30					
GW-505	900	7/13	19.15				No well CAP	-GW-505
GW-506	1015	7/13	14.83				No well CAP	GW-506
GW-506I	1000	7/13	19.98				No well CAP	GW-506I
GW-507	1615	7/13	20.56					
GW-508	1730	7/13	20.83					
GW-509 O	Destroyed							
GW-510I	930	7/13	22.72					
GW-701	1100	7/15	21.06					
GW-702	1030	7/15	20.83					
GW-704	1000	7/11	26.00				0.64 ft of Product	
GW-707	1145	7/15	25.23				purge dry	GW-

9406002D(B)

FIGURE 5-5
WATER LEVEL DATA SHEET

A-5 SAMPLE TRACKING FORMS

SAMPLE TRACKING FORM

SITE NAME: Westover Groundwater Monitoring Program - 1995 Round I **03/05/98**
JOB NO. : 7452-04

DATE SAMPLED	DATE SHIPPED	SAMPLE NUMBER	SAMPLE MATRIX	ANALYTICAL LABORATORY	VOC	SVOC	ASSOCIATED RINSATE	ASSOCIATED TRIP BLANK
07/10/95	07/11/95	WOBSXX1XXX01XX	WATER	PACE	X	X	-	WOBTXX1XXX01XX
07/10/95	07/11/95	WOBSXX1XXX01XR	WATER	NED Env. Lab	X	X	-	WOBTXX1XXX01XR
07/10/95	07/11/95	WOGW101XXX01XX	WATER	PACE	X		WOBSXX1XXX01XX	WOBTXX1XXX01XX
07/10/95	07/11/95	WOGW102XXX01XX	WATER	PACE	X		WOBSXX1XXX01XX	WOBTXX1XXX01XX
07/10/95	07/11/95	WOGW102XXX01XD	WATER	PACE	X		WOBSXX1XXX01XX	WOBTXX1XXX01XX
07/10/95	07/11/95	WOGW102XXX01XR	WATER	NED Env. Lab	X		WOBSXX1XXX01XR	WOBTXX1XXX01XR
07/10/95	07/11/95	WOBTXX1XXX01XX	WATER	PACE	X		-	-
07/10/95	07/11/95	WOBTXX1XXX01XR	WATER	NED Env. Lab	X		-	-
07/11/95	07/11/95	WOGW208XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX1XXX01XX
07/11/95	07/11/95	WOGW704XXX01XX	WATER	PACE	X	X	WOBSXX2XXX01XX	WOBTXX1XXX01XX
07/11/95	07/11/95	WOGW704XXX01XD	WATER	PACE	X	X	WOBSXX2XXX01XX	WOBTXX1XXX01XX
07/11/95	07/11/95	WOGW704XXX01XR	WATER	NED Env. Lab	X	X	WOBSXX1XXX01XR	WOBTXX1XXX01XR
07/11/95	07/11/95	WOGW207XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX1XXX01XX
07/11/95	07/11/95	WOGW208XXI01XX	WATER	PACE	X	X	WOBSXX2XXX01XX	WOBTXX1XXX01XX
07/11/95	07/12/95	WOGW206XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/11/95	07/12/95	WOGW206XXI01XX	WATER	PACE	X	X	WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/11/95	07/12/95	WOGW203XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/11/95	07/12/95	WOBTXX2XXX01XX	WATER	PACE	X		-	-
07/11/95	07/12/95	WOGW211XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/11/95	07/12/95	WOGW210XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/11/95	07/12/95	WOGW209XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/11/95	07/12/95	WOBSXX2XXX01XX	WATER	PACE	X	X	-	WOBTXX2XXX01XX
07/12/95	07/12/95	WOGW212XXI01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/12/95	07/12/95	WOGWXX2XXD01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/12/95	07/12/95	WOGW213XXI01XX	WATER	PACE	X	X	WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/12/95	07/12/95	WOGW214XXI01XX	WATER	PACE	X	X	WOBSXX2XXX01XX	WOBTXX2XXX01XX
07/12/95	07/13/95	WOGW303XXX01XX	WATER	PACE	X	X	WOBSXX2XXX01XX	WOBTXX3XXX01XX
07/12/95	07/13/95	WOGW307XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX3XXX01XX
07/12/95	07/13/95	WOGW307XXX01XD	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX3XXX01XX
07/12/95	07/13/95	WOGW307XXX01XR	WATER	NED Env. Lab	X		WOBSXX1XXX01XR	WOBTXX2XXX01XR
07/12/95	07/13/95	WOGW304XXA01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX3XXX01XX
07/12/95	07/13/95	WOGW305XXI01XX	WATER	PACE	X	X	WOBSXX2XXX01XX	WOBTXX3XXX01XX

SAMPLE TRACKING FORM

SITE NAME: Westover Groundwater Monitoring Program - 1995 Round I **03/05/98**
JOB NO. : 7452-04

DATE SAMPLED	DATE SHIPPED	SAMPLE NUMBER	SAMPLE MATRIX	ANALYTICAL LABORATORY	VOC	SVOC	ASSOCIATED RINSATE	ASSOCIATED TRIP BLANK
07/12/95	07/13/95	WOGW305XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX3XXX01XX
07/12/95	07/13/95	WOBTXX3XXX01XX	WATER	PACE	X	X	-	-
07/12/95	07/13/95	WOGW601XXX01XX	WATER	PACE	X		WOBSXX2XXX01XX	WOBTXX3XXX01XX
07/13/95	07/13/95	WOBSXX3XXX01XX	WATER	PACE	X		-	WOBTXX3XXX01XX
07/13/95	07/13/95	WOGW505XXX01XX	WATER	PACE	X	X	WOBSXX3XXX01XX	WOBTXX3XXX01XX
07/13/95	07/13/95	WOGW510XXI01XX	WATER	PACE	X		WOBSXX3XXX01XX	WOBTXX3XXX01XX
07/13/95	07/13/95	WOBTXX2XXX01XR	WATER	NED Env. Lab	X		-	-
07/13/95	07/13/95	WOGW506XXX01XX	WATER	PACE	X	X	WOBSXX3XXX01XX	WOBTXX3XXX01XX
07/13/95	07/13/95	WOGW506XXI01XX	WATER	PACE	X	X	WOBSXX3XXX01XX	WOBTXX3XXX01XX
07/13/95	07/13/95	WOGW302XXX01XX	WATER	PACE	X	X	WOBSXX3XXX01XX	WOBTXX3XXX01XX
07/13/95	07/13/95	WOGW301XXX01XX	WATER	PACE	X	X	WOBSXX3XXX01XX	WOBTXX3XXX01XX
07/13/95	07/13/95	WOGW301XXX01XD	WATER	PACE	X	X	WOBSXX3XXX01XX	WOBTXX3XXX01XX
07/13/95	07/13/95	WOGW301XXX01XR	WATER	NED Env. Lab	X	X	WOBSXX1XXX01XR	WOBTXX2XXX01XR
07/13/95	07/14/95	WOGW401XXX01XX	WATER	PACE	X		WOBSXX3XXX01XX	WOBTXX4XXX01XX
07/13/95	07/14/95	WOGW403XXX01XX	WATER	PACE	X		WOBSXX3XXX01XX	WOBTXX4XXX01XX
07/13/95	07/14/95	WOBTXX4XXX01XX	WATER	PACE	X		-	-
07/13/95	07/14/95	WOGW306XXX01XX	WATER	PACE	X	X	WOBSXX3XXX01XX	WOBTXX4XXX01XX
07/13/95	07/14/95	WOGW507XXX01XX	WATER	PACE	X		WOBSXX3XXX01XX	WOBTXX4XXX01XX
07/13/95	07/14/95	WOGW507XXX01XD	WATER	PACE	X		WOBSXX3XXX01XX	WOBTXX4XXX01XX
07/13/95	07/14/95	WOGW507XXX01XR	WATER	NED Env. Lab	X		WOBSXX1XXX01XR	WOBTXX3XXX01XR
07/13/95	07/14/95	WOBTXX3XXX01XR	WATER	NED Env. Lab	X		-	-
07/13/95	07/14/95	WOGW508XXX01XX	WATER	PACE	X		WOBSXX3XXX01XX	WOBTXX4XXX01XX
07/13/95	07/14/95	WOGWXX5XXD01XX	WATER	PACE	X	X	WOBSXX3XXX01XX	WOBTXX4XXX01XX
07/14/95	07/14/95	WOGW409XXI01XX	WATER	PACE	X	X	WOBSXX4XXX01XX	WOBTXX4XXX01XX
07/14/95	07/14/95	WOBSXX4XXX01XX	WATER	PACE	X		-	WOBTXX4XXX01XX
07/14/95	07/14/95	WOGW410XXD01XX	WATER	PACE	X	X	WOBSXX4XXX01XX	WOBTXX4XXX01XX
07/14/95	07/14/95	WOGW405XXX01XX	WATER	PACE	X		WOBSXX4XXX01XX	WOBTXX4XXX01XX
07/14/95	07/14/95	WOGW404XXX01XX	WATER	PACE	X		WOBSXX4XXX01XX	WOBTXX4XXX01XX
07/14/95	07/14/95	WOGW407XXI01XX	WATER	PACE	X		WOBSXX4XXX01XX	WOBTXX4XXX01XX
07/14/95	07/17/95*	WOGW406XXX01XX	WATER	PACE	X	X	WOBSXX4XXX01XX	WOBTXX5XXX01XX
07/14/95	07/17/95*	WOGW406XXI01XX	WATER	PACE	X	X	WOBSXX4XXX01XX	WOBTXX5XXX01XX
07/14/95	07/17/95*	WOGW402XXX01XX	WATER	PACE	X	X	WOBSXX4XXX01XX	WOBTXX5XXX01XX

SAMPLE TRACKING FORM

SITE NAME: Westover Groundwater Monitoring Program - 1995 Round I **03/05/98**
JOB NO. : *7452-04*

DATE SAMPLED	DATE SHIPPED	SAMPLE NUMBER	SAMPLE MATRIX	ANALYTICAL LABORATORY	VOC	SVOC	ASSOCIATED RINSATE	ASSOCIATED TRIP BLANK
07/14/95	07/17/95*	WOGW502XXX01XX	WATER	PACE	X	X	WOBSXX4XXX01XX	WOBTXX5XXX01XX
07/14/95	07/17/95*	WOGW501XXX01XX	WATER	PACE	X	X	WOBSXX4XXX01XX	WOBTXX5XXX01XX
07/14/95	07/17/95*	WOGW504XXX01XX	WATER	PACE	X	X	WOBSXX4XXX01XX	WOBTXX5XXX01XX
07/14/95	07/17/95*	WOGW503XXX01XX	WATER	PACE	X	X	WOBSXX4XXX01XX	WOBTXX5XXX01XX
07/15/95	07/17/95*	WOGW205XXB01XX	WATER	PACE	X	X	WOBSXX5XXX01XX	WOBTXX5XXX01XX
07/15/95	07/17/95*	WOGW202XXX01XX	WATER	PACE	X	X	WOBSXX5XXX01XX	WOBTXX5XXX01XX
07/15/95	07/17/95*	WOGW202XXX01XD	WATER	PACE	X	X	WOBSXX5XXX01XX	WOBTXX5XXX01XX
07/15/95	07/17/95*	WOGW202XXX01XR	WATER	NED Env. Lab	X	X	WOBSXX1XXX01XR	WOBTXX4XXX01XR
07/15/95	07/17/95*	WOGW204XXX01XX	WATER	PACE	X	X	WOBSXX5XXX01XX	WOBTXX5XXX01XX
07/15/95	07/17/95*	WOBTXX5XXX01XX	WATER	PACE	X		-	-
07/15/95	07/17/95*	WOBTXX4XXX01XR	WATER	NED Env. Lab	X		-	-
07/15/95	07/17/95*	WOGW702XXX01XX	WATER	PACE	X		WOBSXX5XXX01XX	WOBTXX5XXX01XX
07/15/95	07/17/95*	WOGW201XXX01XX	WATER	PACE	X	X	WOBSXX5XXX01XX	WOBTXX5XXX01XX
07/15/95	07/17/95*	WOGW701XXX01XX	WATER	PACE	X	X	WOBSXX5XXX01XX	WOBTXX5XXX01XX
07/15/95	07/17/95*	WOGW707XXX01XX	WATER	PACE	X	X	WOBSXX5XXX01XX	WOBTXX5XXX01XX
07/15/95	07/17/95*	WOBSXX5XXX01XX	WATER	PACE	X		-	WOBTXX5XXX01XX

NOTES:

*	= HAND DELIVERED	D	= DUPLICATE
BS	= BLANK, SAMPLER	MS	= MATRIX SPIKE
BT	= BLANK, TRIP	MD	= MATRIX DUPLICATE
GW	= GROUNDWATER	VOC	= VOLATILE ORGANIC COMPOUND
R	= REPLICATE	SVOC	= SEMIVOLATILE ORGANIC COMPOUND

SAMPLE TRACKING FORM

Sample Site Name/Code: Westover AFB

Task No. E0126

Job No. 7452-04

Sampling Personnel: M. Lounsbury, S. ALLOCCA, C. Slocum

Date Sampled	Date Shipped	Sample Location (ISIS Code)	Type of (1) Sample	Laboratory Identification	Analytical Laboratory	Required Analysis (2) VOC	SVOC							
7/10/95	7/11/95	WOBSXX1XXY01XX	GW		PACE	✓ ✓	✓ ✓							
		WOBSXXX1XXY01XR			NED	✓ ✓	✓ ✓							
		WOGW101XXY01XY			PACE	✓ ✓								
		WOGW102XXY01XY				✓ ✓								
		WOGW102XXY01XO				✓ ✓								
		WOGW102XXY01MS				✓ ✓								
		WOGW102XXY01MD				✓ ✓								
		WOGW102XXY01XR			NED	✓ ✓								
		WOBTXX1XXY01XY			PACE	✓ ✓								
		WOBTXX1XXY01XR			NED	✓ ✓								

Comments: WO GW102 XXY01XX – MS/MSD/Dup/Replicate

(1) SW - Surface Water
GW - Groundwater
S - Solids
L - Leachate
M - Mixed Media
O - Other

(2) Top Half of Box = Proposed Analysis
Bottom Half of Box = Analysis Actually Requested

FIGURE 6-3
SAMPLE TRACKING FORM

9401027D(E)

SAMPLE TRACKING FORM

Sample Site Name/Code: Westover AFB

Task No. E0126

Job No. 7452-04

Sampling Personnel: M. Lounsbury, S. Allocca, C. Slocum

Date Sampled	Date Shipped	Sample Location (ISIS Code)	Type of (1) Sample	Laboratory Identification	Analytical Laboratory	Required Analysis (2) VOC	SVOC							
7/11/95 ✓	7/11/95 ✓	WOGW208XY 01XY	GW		PACE	✓ ✓								
✓		WOGW704XY 01XY				✓ ✓	✓ ✓							
		WOGW704XY 01XD				✓ ✓	✓ ✓							
		WOGW704XY 01XR			NEN	✓ ✓	✓ ✓							
✓	✓	WOGW207XY 01XY			PACE	✓ ✓								
✓	✓	WOGW208XYI 01XY				✓ ✓	✓ ✓							
✓	7/12/95 ✓	WOGW206XY 01XY				✓ ✓								
✓	✓	WOGW206XYI 01XY				✓ ✓	✓ ✓							
–	✓	WOGW203XY 01XY				✓ ✓								
		WOBXX2XY 01XY				✓ ✓								

Comments: WOGW704XY01XY MS/MSD

(1) SW - Surface Water
GW - Groundwater
S - Solids
L - Leachate
M - Mixed Media
O - Other

(2) Top Half of Box = Proposed Analysis
Bottom Half of Box = Analysis Actually Requested

FIGURE 6-3
SAMPLE TRACKING FORM

9401027D(E)

SAMPLE TRACKING FORM

Sample Site Name/Code: Westover AFB

Task No. ~ E0126

Job No. 7452-04

Sampling Personnel: M. Lounsbury, S. ALLOCCA, C. Slocum

Date Sampled	Date Shipped	Sample Location (ISIS Code)	Type of (1) Sample	Laboratory Identification	Analytical Laboratory	Required Analysis (2) VOC	SVOC							
7/11/95	7/12/95	WOGW211XYY 01XY	GW		PACE									
		WOGW210XYY 01XY												
		WOGW209XYY 01XY												
		WOB5XX2XYY 01XY												
7/12/95		WOGW212XYI01 XY												
	~~7/13/95~~ MS	WOGWXY2XY001 XY												
		WOGW213XYI01 MS XY												
		WOGW214XYI 01XY												
	7/13/95	WOGW303XYY 01XY												
		WOGW307XYY01 XX												

Comments:

(1) SW - Surface Water
GW - Groundwater
S - Solids
L - Leachate
M - Mixed Media
O - Other

(2) Top Half of Box = Proposed Analysis
Bottom Half of Box = Analysis Actually Requested

FIGURE 6-3
SAMPLE TRACKING FORM

9401027D(E)

SAMPLE TRACKING FORM

Sample Site Name/Code: Westover AFB

Task No. E0126

Job No. 7452-04

Sampling Personnel: M. Lounsbury, S. Allocca, C. Slocum

Date Sampled	Date Shipped	Sample Location (ISIS Code)	Type of (1) Sample	Laboratory Identification	Analytical Laboratory	Required Analysis (2) VOC	SVOC							
7/12/95	7/13/95	WOGW307XYY 01XD	GW		PACE	✓ ✓								
		WOGW307XYY 01XR			NED	✓ ✓								
		WOGW304XXA 01XX			PACE	✓ ✓								
	✓	WOGW305XXI 01XX				✓ ✓	✓ ✓							
		WOGW305XYY 01XY				✓ ✓								
		WOBTXY3XYY 01XY				✓ ✓	✓ ✓							
	✓	WOGW601XYY 01XY				✓ ✓								
7/13/95	✓	WOBSXY30XXI 01XY	GW		PACE	✓ ✓								
	✓	WOGW505XYX 01XX				✓ ✓	✓ ✓							
	✓	WOGW510XYI 01XY				✓ ✓								
MS		WOBTXX2XXX01XR			NED	✓ ✓								

Comments:

(1) SW - Surface Water
GW - Groundwater
S - Solids
L - Leachate
M - Mixed Media
O - Other

(2) Top Half of Box = Proposed Analysis
Bottom Half of Box = Analysis Actually Requested

FIGURE 6-3
SAMPLE TRACKING FORM

9401027D(E)

SAMPLE TRACKING FORM

Sample Site Name/Code: Westover AFB

Task No. E0126

Job No. 7452-04

Sampling Personnel: M. Lounsbury, S. ALLOCCA, C. Slack

Date Sampled	Date Shipped	Sample Location (ISIS Code)	Type of (1) Sample	Laboratory Identification	Analytical Laboratory	Required Analysis (2) VOC	SVOC							
7/13/95	7/13/95	WOGW506XXY 01XX	GW		PACE	L L	L L							
		WOGW506XXI 01XY				L L	L L							
		WOGW302XXY 01XX				L L	L L							
		WOGW301XXY 01XY				L L	L L							
		WOGW301XXY 01XO				L L	L L							
		WOGW301XXY 01XR			WED	L L	L L							
	7/14/95	WOGW401XXY 01XX			PACE	L L								
		WOGW403XXY 01XY				L L								
		WOBTXX4XXY 01XY				L L								
		WOGW306XXY 01XY				L L	L L							

Comments: GW-301 Has a Duplicate and replicate Sample

(1) SW - Surface Water
GW - Groundwater
S - Solids
L - Leachate
M - Mixed Media
O - Other

(2) Top Half of Box = Proposed Analysis
Bottom Half of Box = Analysis Actually Requested

FIGURE 6-3
SAMPLE TRACKING FORM

9401027D(E)

SAMPLE TRACKING FORM

Sample Site Name/Code: Westover AFB

Task No. E0126

Job No. 7452-04

Sampling Personnel: M. Lounsbury, S. Allocca, C. Sloom

Date Sampled	Date Shipped	Sample Location (ISIS Code)	Type of (1) Sample	Laboratory Identification	Analytical Laboratory	Required Analysis (2) VOC	SVOC							
7/13/95	7/14/95	WOGW507XXY 01XY	GW	~~PALE~~	PALE	✓ ✓								
		WOGW507XXY 01XD			PALE	✓ ✓								
		WOGW507XXY 01XR			NED	✓ ✓								
		WOBTXX3XX01 XXR MS			NED	✓ ✓								
		WOGW508XXY 01XY			PALE	✓ ✓								
	Hand glacier	WOGWXX3XYD01 XY				✓ ✓	✓ ✓							
7/14/95	7/17/95	WOGW409XXE 01XY				✓ ✓	✓ ✓							
		WOBSXX4XXY 01XY				✓ ✓								
		WOGW410XYD01 XX				✓ ✓	✓ ✓							
		WOGW405XXY 01XY				✓ ✓								

Comments: ~~GW-507 - WOGW507XXY01XY - MS/MSD~~ MAL

(1) SW - Surface Water
GW - Groundwater
S - Solids
L - Leachate
M - Mixed Media
O - Other

(2) Top Half of Box = Proposed Analysis
Bottom Half of Box = Analysis Actually Requested

FIGURE 6-3
SAMPLE TRACKING FORM

9401027D(E)

SAMPLE TRACKING FORM

Sample Site Name/Code: Westover AFB

Task No. E0126

Job No. 7452-04

Sampling Personnel: M. Lounsbury, S. ALLOCCA, C. SLocum

Date Sampled	Date ~~Shipped~~ Hand Delivered	Sample Location (ISIS Code)	Type of (1) Sample	Laboratory Identification	Analytical Laboratory	Required Analysis (2) VOC	SVOC							
7/14/95		WOGW404 xxy01xy	GW		PACE	✓ ✓								
↓		WOGW407 xxz 01xy	↓		↓	✓ ✓								
7/14/95		WOGW406 xxy 01xy	↓		↓	✓ ✓	✓ ✓							
↓		WOGW406 xx I 01xy	↓		↓	✓ ✓	✓ ✓							
↓		WOGW402 xxy 01xy	↓		↓	✓ ✓	✓ ✓							
↓		WOGW502 xxy 01xy	↓		↓	✓ ✓	✓ ✓							
↓		WOGW501 xxy 01xy	↓		↓	✓ ✓	✓ ✓							
↓		WOGW504 xxy 01xy	↓		↓	✓ ✓	✓ ✓							
↓		WOGW503 xxy 01xy	↓		↓	✓ ✓	✓ ✓							
7/15/95		WOGW 205 ~~B~~ xxy 01xy B MS	↓		↓	✓ ✓	✓ ✓							

Comments:

(1) SW - Surface Water
GW - Groundwater
S - Solids
L - Leachate
M - Mixed Media
O - Other

(2) Top Half of Box = Proposed Analysis
Bottom Half of Box = Analysis Actually Requested

FIGURE 6-3
SAMPLE TRACKING FORM

94010270(E)

SAMPLE TRACKING FORM

Sample Site Name/Code: Westover AFB

Task No. E0126

Job No. 7452-04

Sampling Personnel: M. Lounsbury, S. Alzocca, C. Slocum

Date Sampled	Date Shipped	Sample Location (ISIS Code)	Type of (1) Sample	Laboratory Identification	Analytical Laboratory	Required Analysis (2) VOC	SVOC							
7/15/95		WOGW202XXY 01XY	GW		PALE	✓✓	✓✓							
		WOGW202XXY 01XD			PALE	✓✓	✓✓							
	7/17/95	WOGW202XXY 01XR			NED	✓✓	✓✓							
		WOGW204XXY 01XY			PALE	✓✓	✓✓							
		WOBFXY1XXY01XY			PALE	✓✓								
	7/17/95	WOBFXY4XXY 01XR			NED	✓✓								
		WOGW202XXY 01XY			PALE	✓✓								
		WOGW201XXY 01XY				✓✓	✓✓							
		WOGW701XXY 01XY				✓✓	✓✓							
		WOGW703XXY 01XY				✓✓	✓✓							

Comments: WO GW 202 XXY01XY - MS/MSD, NED - Lab Samples were shipped 7/17/95

(1) SW - Surface Water
GW - Groundwater
S - Solids
L - Leachate
M - Mixed Media
O - Other

(2) Top Half of Box = Proposed Analysis
Bottom Half of Box = Analysis Actually Requested

FIGURE 6-3
SAMPLE TRACKING FORM

9401027D(E)

A-6 LABORATORY ANALYTICAL DATA

MEMORANDUM

To: Mark Seelen

From: Paul C. Smith PCS

Date: September 13, 1995

Subject: Validation: USACE-NED Westover AFB
Project No.: 07452-04
Sampling Dates: July 10th, through July 15th, 1995

Review is complete for the data packages generated by Pace Incorporated Environmental Laboratories concerning the water and soil samples collected during the Westover AFB field program. Review was performed following USEPA-CLP National Functional Guidelines. Samples were evaluated for holding time, surrogate recovery, field and laboratory blank contamination, duplicate results, laboratory control sample results, and matrix spike results. Samples were analyzed for volatiles by method 8240, and semivolatiles by method 8270. The data tables referred to in this memo consist of the following:

Table 1: Laboratory Report of Analysis
Table 2: Validation / Summary Table

The following subsections summarize the qualifications/edits that have been detected by validation. For organic analyses, compound results below the CRQL were flagged with a J by the laboratory on Table 1. These results were considered estimated and qualified J on Table 2.

Volatile Analyses - Qualifications/Edits

1. Due to trip, equipment or laboratory method blank contamination, methylene chloride, acetone, 1,1,2,2-tetrachloroethane, benzene, toluene, ethylbenzene, and total xylenes were qualified as nondetect (U) in associated samples where the results were below the calculated blank action level.

2. The matrix spike/matrix spike duplicate (MS/MSD) recovery criteria were not met for toluene and the relative percent difference (RPD) for benzene was outside of acceptable limits causing samples WOGW202XXX01XX and WOGW202XXX01XD to be qualified as estimated (J) for those compounds.

3. Field duplicate relative percent difference (RPD) criteria were not met for the samples and compounds listed below and indicating the application of the appropriate qualifier.

volatile

FIELD DUPLICATES

Sample	Criterion not met	Compound	Qualifier
WOGW307XXX01XX	RPD	Total Xylenes	J
WOGW307XXX01XD	RPD	4-Methyl-2-Pentanone	J
WOGW704XXX01XX	RPD	Benzene	J
WOGW704XXX01XD	RPD	Benzene	J
WOGW507XXX01XX	RPD	Total Xylenes Acetone	J J
WOGW507XXX01XD	RPD	Total Xylenes	J
WOGW202XXX01XX	RPD	Acetone	J
WOGW202XXX01XD	RPD	Acetone	J

4. Hold time was exceeded for sample WOGW507XXX01XX from collection to analysis, resulting in qualifying of all results as estimated (J).

Semivolatile Analyses - Qualifications/Edits

5. Due to equipment or laboratory method blank contamination diethylphthalate, phenol, and bis(2-ethylhexyl)phthalate were qualified as nondetect (U) in associated samples where the results were below the calculated blank action level.

6. Surrogate recovery of 2-fluorophenol and 2,4,6-tribromophenol in samples WOGW214XXI01XX and WOGW208XXI01XX were below 10%. If recoveries fall below 10%, then all results within that fraction are qualified as rejected (R), for these samples all of the acids were rejected.

7. Field duplicate criteria were not met for the samples and compounds listed in the table below along with the qualifier associated with them.

semivolatile

FIELD DUPLICATES

Sample	Criterion not met	Compound	Qualifier
WOGW301XXX01XX	RPD	4-methylphenol	J
WOGW301XXX01XD	RPD	4-methylphenol	J

9/13/95

semivolatiles

FIELD DUPLICATES (cont'd)

WOGW704XXX01XX	RPD	bis(2-ethylhexyl)phthalate, naphthalene dibenzofuran 2-methylnaphthalene phenanthrene	J J J J J
WOGW704XXX01XD	RPD	bis(2-ethylhexyl)phthalate, naphthalene dibenzofuran 2-methylnaphthalene phenanthrene	J J J J J
WOGW202XXX01XX	RPD	4-methylphenol fluorene 2-methylphenol dibenzofuran naphthalene 2-methylnaphthalene 2,4-dimethylphenol	J J J J J J J
WOGW202XXX01XD	RPD	fluorene dibenzofuran naphthalene 2-methylnaphthalene 2,4-dimethylphenol	J J J J J

Table 1
Laboratory Report of Analysis

LOCATION:	BT-1	BT-2	BT-3	BT-4	BT-5
ISIS ID:	WOBTXX1XXX01XX	WOBTXX2XXX02XX	WOBTXX3XXX01XX	WOBTXX4XXX01XX	WOBTXX5XXX01XX
LAB NUMBER:	44688-010	44691-011	WL1062-13	WL1074-12	WL1075-17
DATE SAMPLED:	07/11/95	07/11/95	07/12/95	07/13/95	07/15/95
DATE ANALYZED:	07/25/95	07/20/95	07/19/95	07/21/95	07/26/95

ANALYTE	SW-846.3 CRQL					
Chloromethane	10	10 U	10 U	10 U	•10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	10 U	10 U	3 JB	3 JB	3 JB
Acetone	10	15 U	15 U	15 U	15 U	15 U
Carbon Disulfide	5	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	15 U	15 U	15 U	15 U	15 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	15 U	15 U	15 U	15 U	15 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	10	15 U	15 U	15 U	15 U	15 U
2-Hexanone	10	15 U	15 U	15 U	15 U	15 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	1 JB	5 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	3 J
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U
Total Xylenes	5	5 U	5 U	5 U	5 U	3 JB
Dilution Factor:		1.00	1.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):		5.00	5.00	5.00	5.00	5.00
Associated Method Blank:		BC072595A1	44691	WL1062A	WL1074B	WL1075C
Associated Equipment Blank:		-	-	-	-	-
Associated Field Blank:		-	-	-	-	-
Associated Trip Blank:		-	-	-	-	-

Table 1
Laboratory Report of Analysis

LOCATION:	BS-1	BS-2	BS-3	BS-4	BS-5
ISIS ID:	WOBSXX1XXX01XX	WOBSXX2XXX01XX	WOBSXX3XXX01XX	WOBSXX4XXX01XX	WOBSXX5XXX01XX
LAB NUMBER:	44688-009	44691-012	WL1062-9	WL1074-6	WL1075-15
DATE SAMPLED:	07/10/95	07/12/95	07/13/95	07/14/95	07/15/95
DATE ANALYZED:	07/21/95	07/20/95	07/21/95	07/20/95	07/27/95

ANALYTE	SW-846.3	CRQL									
Chloromethane		10	10	U	10	U	10	U	10	U	10 U
Bromomethane		10	10	U	10	U	10	U	10	U	10 U
Vinyl Chloride		10	10	U	10	U	10	U	10	U	10 U
Chloroethane		10	10	U	10	U	10	U	10	U	10 U
Methylene Chloride		5	10	U	10	U	9	JB	3	JB	3 JB
Acetone		10	15	U	15	U	15	U	15	U	15 U
Carbon Disulfide		5	10	U	10	U	10	U	10	U	10 U
1,1-Dichloroethene		5	5	U	5	U	5	U	5	U	5 U
1,1-Dichloroethane		5	5	U	5	U	5	U	5	U	5 U
1,2-Dichloroethene (total)		5	5	U	5	U	5	U	5	U	5 U
Chloroform		5	5	U	5	U	5	U	5	U	5 U
1,2-Dichloroethane		5	5	U	5	U	5	U	5	U	5 U
2-Butanone		10	15	U	15	U	15	U	15	U	15 U
1,1,1-Trichloroethane		5	5	U	5	U	5	U	5	U	5 U
Carbon Tetrachloride		5	5	U	5	U	5	U	5	U	5 U
Vinyl Acetate		10	15	U	15	U	15	U	15	U	15 U
Bromodichloromethane		5	5	U	5	U	5	U	5	U	5 U
1,2-Dichloropropane		5	5	U	5	U	5	U	5	U	5 U
trans-1,3-Dichloropropene		5	5	U	5	U	5	U	5	U	5 U
Trichloroethene		5	5	U	5	U	5	U	5	U	5 U
Dibromochloromethane		5	5	U	5	U	5	U	5	U	5 U
1,1,2-Trichloroethane		5	5	U	5	U	5	U	5	U	5 U
Benzene		5	5	U	5	U	5	U	5	U	1 J
cis-1,3-Dichloropropene		5	5	U	5	U	5	U	5	U	5 U
Bromoform		5	5	U	5	U	5	U	5	U	5 U
4-Methyl-2-Pentanone		10	15	U	15	U	15	U	15	U	15 U
2-Hexanone		10	15	U	15	U	15	U	15	U	15 U
1,1,2,2-Tetrachloroethane		5	5	U	5	U	5	U	5	U	5 U
Tetrachloroethene		5	5	U	5	U	5	U	5	U	5 U
Toluene		5	5	U	3	J	6		4	J	7
Chlorobenzene		5	5	U	5	U	5	U	5	U	5 U
Ethylbenzene		5	5	U	5	U	2	J	5	U	1 J
Styrene		5	5	U	5	U	5	U	5	U	5 U
Total Xylenes		5	5	U	5	U	6		4	J	7
Dilution Factor:			1.00		1.00		1.00		1.00		1.00
Sample Volume\Weight (ml\g):			5.00		5.00		5.00		5.00		5.00
Associated Method Blank:			BC072195A1		44691		WL1062C		WL1074A		WL1075D
Associated Equipment Blank:			-		-		-		-		-
Associated Field Blank:			-		-		-		-		-
Associated Trip Blank:			-		-		-		-		-

Table 1
Laboratory Report of Analysis

LOCATION:		BS-1	BS-2
ISIS ID:		WOBSXX1XXX01XX	WOBSXX2XXX01XX
LAB NUMBER:		WL1045-4	WL1057-4
DATE SAMPLED:		07/10/95	07/12/95
DATE EXTRACTED:		07/13/95	07/14/95
DATE ANALYZED:		07/18/95	07/17/95
ANALYTE	SW-846.3 CRQL		
Phenol	10	1 J	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U
2-Chlorophenol	10	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U
2-Methylphenol	10	10 U	10 U
bis(2-Chloroisopropyl)ether	10	10 U	10 U
4-Methylphenol	10	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U
Hexachloroethane	10	10 U	10 U
Nitrobenzene	10	10 U	10 U
Isophorone	10	10 U	10 U
2-Nitrophenol	10	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U
bis(2-Chloroethoxy)methane	10	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U
Naphthalene	10	10 U	10 U
4-Chloroaniline	10	10 U	10 U
Hexachlorobutadiene	10	10 U	10 U
4-Chloro-3-Methylphenol	10	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U
Hexachlorocyclopentadiene	10	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U
2,4,5-Trichlorophenol	50	25 U	25 U
2-Chloronaphthalene	10	10 U	10 U
2-Nitroaniline	50	25 U	25 U
Dimethylphthalate	10	10 U	10 U
Acenaphthylene	10	10 U	10 U
3-Nitroaniline	50	25 U	25 U
Acenaphthene	10	10 U	10 U
2,4-Dinitrophenol	50	25 U	25 U
4-Nitrophenol	50	25 U	25 U
Dibenzofuran	10	10 U	10 U

Table 1
Laboratory Report of Analysis

		LOCATION:	BS-1		BS-2	
		ISIS ID:	WOBSXX1XXX01XX		WOBSXX2XXX01XX	
		LAB NUMBER:	WL1045-4		WL1057-4	
		DATE SAMPLED:	07/10/95		07/12/95	
		DATE EXTRACTED:	07/13/95		07/14/95	
		DATE ANALYZED:	07/18/95		07/17/95	
ANALYTE	SW-846.3	CRQL				
2,4-Dinitrotoluene		10	10	U	10	U
2,6-Dinitrotoluene		10	10	U	10	U
Diethylphthalate		10	10	U	1	JB
4-Chlorophenyl-phenylether		10	10	U	10	U
Fluorene		10	10	U	10	U
4-Nitroaniline		50	25	U	25	U
4,6-Dinitro-2-methylphenol		50	25	U	25	U
N-Nitrosodiphenylamine		10	10	U	10	U
4-Bromophenyl-phenylether		10	10	U	10	U
Hexachlorobenzene		10	10	U	10	U
Pentachlorophenol		50	25	U	25	U
Phenanthrene		10	10	U	10	U
Anthracene		10	10	U	10	U
Di-n-butylphthalate		10	10	U	10	U
Fluoranthene		10	10	U	10	U
Pyrene		10	10	U	10	U
Butylbenzylphthalate		10	10	U	10	U
3,3'-Dichlorobenzidine		20	10	U	10	U
Benzo(a)Anthracene		10	10	U	10	U
bis(2-Ethylhexyl)phthalate		10	33	B	4	JB
Chrysene		10	10	U	10	U
Di-n-octylphthalate		10	10	U	10	U
Benzo(b)Fluoranthene		10	10	U	10	U
Benzo(k)Fluoranthene		10	10	U	10	U
Benzo(a)Pyrene		10	10	U	10	U
Indeno(1,2,3-c,d)Pyrene		10	10	U	10	U
Dibenz(a,h)Anthracene		10	10	U	10	U
Benzo(g,h,i)perylene		10	10	U	10	U
Dilution Factor:			1.00		1.00	
Sample Volume\Weight (ml\g):			1000		1000	
Associated Method Blank:			WL-1045-A		WL1057A	
Associated Equipment Blank:			-		-	
Associated Field Blank:			-		-	

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-101	WMW-102 DUP	WMW-102	WMW-201	WMW-202 DUP	WMW-202	WMW-203	WMW-204
ISIS ID:	WOGW101XXX01XX	WOGW102XXX01XD	WOGW102XXX01XX	WOGW201XXX01XX	WOGW202XXX01XD	WOGW202XXX01XX	WOGW203XXX01XX	WOGW204XXX01XX
LAB NUMBER:	44688-003	44688-002	44688-001	WL1075-4	WL1075-7	WL1075-1	44691-010	WL1075-5
DATE SAMPLED:	07/10/95	07/10/95	07/10/95	07/15/95	07/15/95	07/15/95	07/11/95	07/15/95
DATE ANALYZED:	07/24/95	07/21/95	07/21/95	07/26/95	07/26/95	07/25/95	07/20/95	07/25/95
ANALYTE SW-846.3	CRQL							
Chloromethane	10	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
Bromomethane	10	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
Vinyl Chloride	10	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
Chloroethane	10	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
Methylene Chloride	5	50 U	10 U	10 U	4 JB	59 JB	57 JB	10 U	50 U
Acetone	10	75 U	15 U	15 U	15 U	45 J	27 J	4 J	75 U
Carbon Disulfide	5	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
1,1-Dichloroethene	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,1-Dichloroethane	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,2-Dichloroethene (total)	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Chloroform	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,2-Dichloroethane	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
2-Butanone	10	75 U	15 U	15 U	15 U	300 U	150 U	15 U	75 U
1,1,1-Trichloroethane	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Carbon Tetrachloride	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Vinyl Acetate	10	75 U	15 U	15 U	15 U	300 U	150 U	15 U	75 U
Bromodichloromethane	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,2-Dichloropropane	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
trans-1,3-Dichloropropene	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Trichloroethene	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Dibromochloromethane	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,1,2-Trichloroethane	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Benzene	5	25 U	5 U	5 U	5 U	100	87	5 U	25 U
cis-1,3-Dichloropropene	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Bromoform	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
4-Methyl-2-Pentanone	10	75 U	15 U	15 U	15 U	300 U	150 U	15 U	75 U
2-Hexanone	10	75 U	15 U	15 U	15 U	300 U	150 U	15 U	75 U
1,1,2,2-Tetrachloroethane	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Tetrachloroethene	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Toluene	5	300	5 U	5 U	37	3800	3400	5 U	170
Chlorobenzene	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Ethylbenzene	5	400	5 U	5 U	24	1000	850	5 U	120
Styrene	5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Total Xylenes	5	1400	5 U	5 U	140 B	4700	4300	5 U	660 B
Dilution Factor:		5.00	1.00	1.00	1.00	20.0	10.0	1.00	5.00
Sample Volume\Weight (ml\g):		1.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:		BC072495A1	BC072195A1	BC072195A1	WL1075C	WL1075C	WL1075A	44691	WL1075A
Associated Equipment Blank:		WOBSXX1XXX01XX	WOBSXX1XXX01XX	WOBSXX1XXX01XX	WOBSXX5XXX01XX	WOBSXX5XXX01XX	WOBSXX5XXX01XX	WOBSXX2XXX01XX	WOBSXX5XXX01XX
Associated Field Blank:		-	-	-	-	-	-	-	-
Associated Trip Blank:		WOBTXX1XXX01XX	WOBTXX1XXX01XX	WOBTXX1XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX2XXX02XX	WOBTXX5XXX01XX

Table 1
Laboratory Report of Analysis

	LOCATION:	WMW-205	WMW-206	WMW-206	WMW-207	WMW-208	WMW-208	WMW-209	WMW-210
	ISIS ID:	WOGW205XXB01XX	WOGW206XXI01XX	WOGW206XXX01XX	WOGW207XXX01XX	WOGW208XXI01XX	WOGW208XXX01XX	WOGW209XXX01XX	WOGW210XXX01XX
	LAB NUMBER:	WL1075-6	44691-005	44691-009	44688-007	44688-008	44688-004	44691-006	44691-007
	DATE SAMPLED:	07/15/95	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95
	DATE ANALYZED:	07/26/95	07/20/95	07/20/95	07/25/95	07/24/95	07/25/95	07/20/95	07/20/95
ANALYTE SW-846.3	CRQL								
Chloromethane	10	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Bromomethane	10	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Chloroethane	10	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Methylene Chloride	5	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Acetone	10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
Carbon Disulfide	5	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
1,1-Dichloroethene	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Chloroform	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
2-Butanone	10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
1,1,1-Trichloroethane	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Vinyl Acetate	10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
Bromodichloromethane	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Trichloroethene	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Benzene	5	5 U	18	7	5 U	640	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Bromoform	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
2-Hexanone	10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
1,1,2,2-Tetrachloroethane	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Tetrachloroethene	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Toluene	5	5 U	90	5 U	6	92	5 U	5 U	5 U
Chlorobenzene	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Ethylbenzene	5	1 J	660	5 U	5 U	390	5 U	5 U	5 U
Styrene	5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Total Xylenes	5	3 JB	710	5	5 U	1100	5 U	5 U	5 U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):		5.00	1.50	5.00	5.00	1.50	5.00	5.00	5.00
Associated Method Blank:		WL1075C	44691	44691	BC072595A1	BC072495A1	BC072595A1	44691	44691
Associated Equipment Blank:		WOBSXX5XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX1XXX01XX	WOBSXX1XXX01XX	WOBSXX1XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX
Associated Field Blank:		-	-	-	-	-	-	-	-
Associated Trip Blank:		WOBTXX5XXX01XX	WOBTXX2XXX02XX	WOBTXX2XXX02XX	WOBTXX1XXX01XX	WOBTXX1XXX01XX	WOBTXX1XXX01XX	WOBTXX2XXX02XX	WOBTXX2XXX02XX

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-211	WMW-212	WMW-213	WMW-214	WMW-301 DUP	WMW-301	WMW-302	WMW-303
ISIS ID:	WOGW211XXX01XX	WOGW212XX101XX	WOGW213XX101XX	WOGW214XX101XX	WOGW301XXX01XD	WOGW301XXX01XX	WOGW302XXX01XX	WOGW303XXX01XX
LAB NUMBER:	44691-008	44691-004	44691-002	44691-001	WL1062-4	WL1062-3	WL1062-5	WL1062-7
DATE SAMPLED:	07/11/95	07/12/95	07/12/95	07/12/95	07/13/95	07/13/95	07/13/95	07/12/95
DATE ANALYZED:	07/20/95	07/20/95	07/20/95	07/20/95	07/19/95	07/19/95	07/19/95	07/19/95

ANALYTE	SW-846.3	CRQL															
Chloromethane		10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane		10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride		10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane		10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methylene Chloride		5	10	U	10	U	10	U	10	U	10	U	10	U	10	U	4	JB
Acetone		10	15	U	15	U	15	U	15	U	15	U	15	U	15	U	1	JB
Carbon Disulfide		5	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone		10	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U
1,1,1-Trichloroethane		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl Acetate		10	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U
Bromodichloromethane		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Benzene		5	5	U	5	U	11		5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-Pentanone		10	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U
2-Hexanone		10	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U
1,1,2,2-Tetrachloroethane		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene		5	5	U	5	U	5	U	5	U	2	J	2	J	5	U	5	U
Chlorobenzene		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene		5	5	U	5	U	5	U	5	U	640		620		450		8	
Styrene		5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Total Xylenes		5	5	U	5	U	5	U	5	U	2300		2200		1200		24	

Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:	44691	44691	44691	44691	WL1062A	WL1062A	WL1062A	WL1062A
Associated Equipment Blank:	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX2XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-
Associated Trip Blank:	WOBTXX2XXX02XX	WOBTXX2XXX02XX	WOBTXX2XXX02XX	WOBTXX2XXX02XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-304	WMW-305	WMW-305	WMW-306	WMW-307 DUP	WMW-307	WMW-401	WMW-402
ISIS ID:	WOGW304XXA01XX	WOGW305XXI01XX	WOGW305XXX01XX	WOGW306XXX01XX	WOGW307XXX01XD	WOGW307XXX01XX	WOGW401XXX01XX	WOGW402XXX01XX
LAB NUMBER:	WL1062-12	WL1062-6	WL1062-14	WL1074-4	WL1062-16	WL1062-15	WL1074-14	WL1075-10
DATE SAMPLED:	07/12/95	07/12/95	07/12/95	07/13/95	07/12/95	07/12/95	07/13/95	07/14/95
DATE ANALYZED:	07/19/95	07/21/95	07/19/95	07/20/95	07/21/95	07/21/95	07/25/95	07/26/95
ANALYTE SW-846.3 CRQL								
Chloromethane 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
Bromomethane 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
Vinyl Chloride 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
Chloroethane 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
Methylene Chloride 5	10 U	9 JB	2 JB	3 JB	100 B	61 JB	4 JB	24 JB
Acetone 10	15 U	15 U	15 U	15 U	150 U	150 U	15 U	150 U
Carbon Disulfide 5	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
1,1-Dichloroethene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,1-Dichloroethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,2-Dichloroethene (total) 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Chloroform 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,2-Dichloroethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
2-Butanone 10	15 U	15 U	15 U	15 U	150 U	150 U	15 U	150 U
1,1,1-Trichloroethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Carbon Tetrachloride 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Vinyl Acetate 10	15 U	15 U	15 U	15 U	150 U	150 U	15 U	150 U
Bromodichloromethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,2-Dichloropropane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
trans-1,3-Dichloropropene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Trichloroethene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Dibromochloromethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,1,2-Trichloroethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Benzene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
cis-1,3-Dichloropropene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Bromoform 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
4-Methyl-2-Pentanone 10	15 U	15 U	15 U	15 U	45 J	150 U	15 U	150 U
2-Hexanone 10	15 U	15 U	15 U	15 U	150 U	150 U	15 U	150 U
1,1,2,2-Tetrachloroethane 5	5 U	5 U	1 JB	5 U	50 U	50 U	5 U	50 U
Tetrachloroethene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Toluene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	180
Chlorobenzene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Ethylbenzene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	1300
Styrene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Total Xylenes 5	5 U	5 U	1 J	1 J	50 U	30 J	5 U	14000 B
Dilution Factor:	1.00	1.00	1.00	1.00	10.0	10.0	1.00	10.0
Sample Volume\Weight (ml\g):	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:	WL1062A	WL1062C	WL1062A	WL1074A	WL1062C	WL1062C	WL1074C	WL1075B
Associated Equipment Blank:	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX3XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX3XXX01XX	WOBSXX4XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-
Associated Trip Blank:	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX4XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX4XXX01XX	WOBTXX5XXX01XX

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-403	WMW-404	WMW-405	WMW-406	WMW-406	WMW-407	WMW-409	WMW-410
ISIS ID:	WOGW403XXX01XX	WOGW404XXX01XX	WOGW405XXX01XX	WOGW406XXI01XX	WOGW406XXX01XX	WOGW407XXI01XX	WOGW409XXI01XX	WOGW410XXD01XX
LAB NUMBER:	WL1074-13	WL1074-8	WL1074-7	WL1075-8	WL1075-9	WL1074-5	WL1074-2	WL1074-1
DATE SAMPLED:	07/13/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95
DATE ANALYZED:	07/21/95	07/21/95	07/20/95	07/26/95	07/26/95	07/20/95	07/21/95	07/20/95
ANALYTE SW-846.3 CRQL								
Chloromethane 10	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
Bromomethane 10	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
Vinyl Chloride 10	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
Chloroethane 10	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
Methylene Chloride 5	2 JB	1 JB	3 JB	12 JB	4 JB	4 JB	7 JB	2 JB
Acetone 10	15 U	2 J	15 U	75 U	30 U	15 U	15 U	15 U
Carbon Disulfide 5	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
1,1-Dichloroethene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,1-Dichloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,2-Dichloroethene (total) 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Chloroform 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,2-Dichloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
2-Butanone 10	15 U	15 U	15 U	75 U	30 U	15 U	15 U	15 U
1,1,1-Trichloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Carbon Tetrachloride 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Vinyl Acetate 10	15 U	15 U	15 U	75 U	30 U	15 U	15 U	15 U
Bromodichloromethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,2-Dichloropropane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
trans-1,3-Dichloropropene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Trichloroethene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Dibromochloromethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,1,2-Trichloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Benzene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	72
cis-1,3-Dichloropropene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Bromoform 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
4-Methyl-2-Pentanone 10	15 U	15 U	15 U	75 U	30 U	15 U	15 U	15 U
2-Hexanone 10	15 U	15 U	15 U	75 U	30 U	15 U	15 U	15 U
1,1,2,2-Tetrachloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Tetrachloroethene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Toluene 5	5 U	5 U	5 U	56	10 U	5 U	5 U	490
Chlorobenzene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Ethylbenzene 5	5 U	5 U	21	760	55	1 J	9	420
Styrene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Total Xylenes 5	5 U	5 U	17	3500	290	2 J	58	2000
Dilution Factor:	1.00	1.00	1.00	5.00	2.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:	WL1074B	WL1074B	WL1074A	WL1075B	WL1075B	WL1074A	WL1074B	WL1074A
Associated Equipment Blank:	WOBSXX3XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-
Associated Trip Blank:	WOBTXX4XXX01XX	WOBTXX4XXX01XX	WOBTXX4XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX4XXX01XX	WOBTXX4XXX01XX	WOBTXX4XXX01XX

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-501	WMW-502	WMW-503	WMW-504	WMW-505	WMW-506	WMW-506	WMW-507 DUP
ISIS ID:	WOGW501XXX01XX	WOGW502XXX01XX	WOGW503XXX01XX	WOGW504XXX01XX	WOGW505XXX01XX	WOGW506XXI01XX	WOGW506XXX01XX	WOGW507XXX01XD
LAB NUMBER:	WL1075-12	WL1075-11	WL1075-14	WL1075-13	WL1062-2	WL1062-8	WL1062-1	WL1074-11
DATE SAMPLED:	07/14/95	07/14/95	07/14/95	07/14/95	07/13/95	07/13/95	07/13/95	07/13/95
DATE ANALYZED:	07/26/95	07/26/95	07/27/95	07/26/95	07/19/95	07/21/95	07/19/95	07/21/95
ANALYTE SW-846.3 CRQL								
Chloromethane 10	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
Bromomethane 10	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
Vinyl Chloride 10	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
Chloroethane 10	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
Methylene Chloride 5	10 U	26 JB	40 JB	50 JB	3 JB	21 JB	4 JB	1 JB
Acetone 10	15 U	150 U	300 U	300 U	15 U	140	15 U	15 U
Carbon Disulfide 5	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
1,1-Dichloroethene 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,1-Dichloroethane 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,2-Dichloroethene (total) 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Chloroform 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,2-Dichloroethane 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
2-Butanone 10	15 U	150 U	300 U	300 U	15 U	75 U	15 U	15 U
1,1,1-Trichloroethane 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Carbon Tetrachloride 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Vinyl Acetate 10	15 U	150 U	300 U	300 U	15 U	75 U	15 U	15 U
Bromodichloromethane 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,2-Dichloropropane 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
trans-1,3-Dichloropropene 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Trichloroethene 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Dibromochloromethane 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,1,2-Trichloroethane 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Benzene 5	2 J	51	630	100 U	5 U	13 J	5 U	5 U
cis-1,3-Dichloropropene 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Bromoform 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
4-Methyl-2-Pentanone 10	15 U	150 U	300 U	300 U	15 U	75 U	15 U	15 U
2-Hexanone 10	15 U	150 U	300 U	300 U	15 U	75 U	15 U	15 U
1,1,2,2-Tetrachloroethane 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Tetrachloroethene 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Toluene 5	160	50 U	13000	270	5 U	110	5 U	1 J
Chlorobenzene 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Ethylbenzene 5	150	370	1300	930	5 U	610	5	2 J
Styrene 5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Total Xylenes 5	360	1500 B	6700	5400 B	5 U	3400	5	6
Dilution Factor:	1.00	10.0	20.0	20.0	1.00	5.00	1.00	1.00
Sample Volume\Weight (ml\g):	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:	WL1075C	WL1075C	WL1075D	WL1075C	WL1062A	WL1062C	WL1062A	WL1074B
Associated Equipment Blank:	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-
Associated Trip Blank:	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX4XXX01XX

Table 1
Laboratory Report of Analysis

		LOCATION:	WMW-507	WMW-508	WMW-510	WMW-601	WMW-701	WMW-702	WMW-704 DUP	WMW-704
		ISIS ID:	WOGW507XXX01XX	WOGW508XXX01XX	WOGW510XX101XX	WOGW601XXX01XX	WOGW701XXX01XX	WOGW702XXX01XX	WOGW704XXX01XD	WOGW704XXX01XX
		LAB NUMBER:	WL1074-10	WL1074-9	WL1062-10	WL1062-11	WL1075-3	WL1075-16	44688-006	44688-005
		DATE SAMPLED:	07/13/95	07/13/95	07/13/95	07/12/95	07/15/95	07/15/95	07/11/95	07/11/95
		DATE ANALYZED:	08/01/95	07/21/95	07/19/95	07/19/95	07/25/95	07/26/95	07/24/95	07/25/95
ANALYTE	SW-846.3	CRQL								
Chloromethane		10	10 U	10 U	10 U	10 U	100 U	10 U	500 U	420 U
Bromomethane		10	10 U	10 U	10 U	10 U	100 U	10 U	500 U	420 U
Vinyl Chloride		10	10 U	10 U	10 U	10 U	100 U	10 U	500 U	420 U
Chloroethane		10	10 U	10 U	10 U	10 U	100 U	10 U	500 U	420 U
Methylene Chloride		5	3 JB	3 JB	4 JB	4 JB	71 JB	2 JB	500 U	420 U
Acetone		10	1 J	15 U	15 U	15 U	150 U	15 U	750 U	630 U
Carbon Disulfide		5	10 U	10 U	10 U	10 U	100 U	10 U	500 U	420 U
1,1-Dichloroethene		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
1,1-Dichloroethane		5	5 U	5 U	5 U	5 U	10 J	5 U	250 U	210 U
1,2-Dichloroethene (total)		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Chloroform		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
1,2-Dichloroethane		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
2-Butanone		10	15 U	15 U	15 U	15 U	150 U	15 U	750 U	630 U
1,1,1-Trichloroethane		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Carbon Tetrachloride		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Vinyl Acetate		10	15 U	15 U	15 U	15 U	150 U	15 U	750 U	630 U
Bromodichloromethane		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
1,2-Dichloropropane		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
trans-1,3-Dichloropropene		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Trichloroethene		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Dibromochloromethane		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
1,1,2-Trichloroethane		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Benzene		5	5 U	5 U	5	5 U	50 U	5 U	370	570
cis-1,3-Dichloropropene		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Bromoform		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
4-Methyl-2-Pentanone		10	15 U	15 U	15 U	15 U	150 U	15 U	750 U	630 U
2-Hexanone		10	15 U	15 U	15 U	15 U	150 U	15 U	750 U	630 U
1,1,2,2-Tetrachloroethane		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Tetrachloroethene		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Toluene		5	5 U	5 U	5 U	5 U	3400	5	5900	6100
Chlorobenzene		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Ethylbenzene		5	5 U	5 U	16	5 U	1400	5 U	2000	1700
Styrene		5	5 U	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Total Xylenes		5	5 U	5 U	11	2 J	5400	2 JB	8300	7100
		Dilution Factor:	1.00	1.00	1.00	1.00	10.0	1.00	1.00	1.00
		Sample Volume\Weight (ml\g):	5.00	5.00	5.00	5.00	5.00	5.00	.100	.120
		Associated Method Blank:	WL1074B	WL1074B	WL1062A	WL1062A	WL1075A	WL1075C	BC072495A1	BC072595A1
		Associated Equipment Blank:	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX2XXX01XX	WOBSXX5XXX01XX	WOBSXX5XXX01XX	WOBSXX1XXX01XX	WOBSXX1XXX01XX
		Associated Field Blank:	-	-	-	-	-	-	-	-
		Associated Trip Blank:	WOBTXX4XXX01XX	WOBTXX4XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX1XXX01XX	WOBTXX1XXX01XX

Table 1
Laboratory Report of Analysis

		LOCATION:	WMW-707		WMW-2		WMW-5	
		ISIS ID:	WOGW707XXX01XX		WOGWXX2XXD01XX		WOGWXX5XXD01XX	
		LAB NUMBER:	WL1075-2		44691-003		WL1074-3	
		DATE SAMPLED:	07/15/95		07/12/95		07/13/95	
		DATE ANALYZED:	07/25/95		07/20/95		07/20/95	
ANALYTE	SW-846.3	CRQL						
Chloromethane		10	50	U	10	U	10	U
Bromomethane		10	50	U	10	U	10	U
Vinyl Chloride		10	50	U	10	U	10	U
Chloroethane		10	50	U	10	U	10	U
Methylene Chloride		5	30	JB	10	U	3	JB
Acetone		10	75	U	15	U	15	U
Carbon Disulfide		5	50	U	10	U	10	U
1,1-Dichloroethene		5	25	U	5	U	5	U
1,1-Dichloroethane		5	25	U	5	U	5	U
1,2-Dichloroethene (total)		5	25	U	5	U	5	U
Chloroform		5	25	U	5	U	5	U
1,2-Dichloroethane		5	25	U	5	U	5	U
2-Butanone		10	75	U	15	U	15	U
1,1,1-Trichloroethane		5	25	U	5	U	5	U
Carbon Tetrachloride		5	25	U	5	U	5	U
Vinyl Acetate		10	75	U	15	U	15	U
Bromodichloromethane		5	25	U	5	U	5	U
1,2-Dichloropropane		5	25	U	5	U	5	U
trans-1,3-Dichloropropene		5	25	U	5	U	5	U
Trichloroethene		5	25	U	10		3	J
Dibromochloromethane		5	25	U	5	U	5	U
1,1,2-Trichloroethane		5	25	U	5	U	5	U
Benzene		5	220		5	U	1	J
cis-1,3-Dichloropropene		5	25	U	5	U	5	U
Bromoform		5	25	U	5	U	5	U
4-Methyl-2-Pentanone		10	75	U	15	U	15	U
2-Hexanone		10	75	U	15	U	15	U
1,1,2,2-Tetrachloroethane		5	25	U	5	U	5	U
Tetrachloroethene		5	25	U	11		5	U
Toluene		5	1300		5	U	5	U
Chlorobenzene		5	25	U	5	U	5	U
Ethylbenzene		5	680		5	U	10	
Styrene		5	25	U	5	U	5	U
Total Xylenes		5	2900		5	U	5	
Dilution Factor:			5.00		1.00		1.00	
Sample Volume\Weight (ml\g):			5.00		5.00		5.00	
Associated Method Blank:			WL1075A		44691		WL1074A	
Associated Equipment Blank:			WOBSXX5XXX01XX		WOBSXX2XXX01XX		WOBSXX3XXX01XX	
Associated Field Blank:			-		-		-	
Associated Trip Blank:			WOBTXX5XXX01XX		WOBTXX2XXX02XX		WOBTXX4XXX01XX	

Table 2
Validation / Summary Table

LOCATION:	WMW-101	WMW-102 DUP	WMW-102	WMW-201	WMW-202 DUP	WMW-202	WMW-203	WMW-204
ISIS ID:	WOGW101XXX01XX	WOGW102XXX01XD	WOGW102XXX01XX	WOGW201XXX01XX	WOGW202XXX01XD	WOGW202XXX01XX	WOGW203XXX01XX	WOGW204XXX01XX
LAB NUMBER:	44688-003	44688-002	44688-001	WL1075-4	WL1075-7	WL1075-1	44691-010	WL1075-5
DATE SAMPLED:	07/10/95	07/10/95	07/10/95	07/15/95	07/15/95	07/15/95	07/11/95	07/15/95
DATE ANALYZED:	07/24/95	07/21/95	07/21/95	07/26/95	07/26/95	07/25/95	07/20/95	07/25/95
ANALYTE SW-846.3 CRQL								
Chloromethane 10	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
Bromomethane 10	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
Vinyl Chloride 10	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
Chloroethane 10	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
Methylene Chloride 5	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
Acetone 10	75 U	15 U	15 U	15 U	45 J	27 J	4 J	75 U
Carbon Disulfide 5	50 U	10 U	10 U	10 U	200 U	100 U	10 U	50 U
1,1-Dichloroethene 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,1-Dichloroethane 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,2-Dichloroethene (total) 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Chloroform 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,2-Dichloroethane 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
2-Butanone 10	75 U	15 U	15 U	15 U	300 U	150 U	15 U	75 U
1,1,1-Trichloroethane 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Carbon Tetrachloride 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Vinyl Acetate 10	75 U	15 U	15 U	15 U	300 U	150 U	15 U	75 U
Bromodichloromethane 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,2-Dichloropropane 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
trans-1,3-Dichloropropene 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Trichloroethene 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Dibromochloromethane 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
1,1,2-Trichloroethane 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Benzene 5	25 U	5 U	5 U	5 U	100 UJ	87 J	5 U	25 U
cis-1,3-Dichloropropene 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Bromoform 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
4-Methyl-2-Pentanone 10	75 U	15 U	15 U	15 U	300 U	150 U	15 U	75 U
2-Hexanone 10	75 U	15 U	15 U	15 U	300 U	150 U	15 U	75 U
1,1,2,2-Tetrachloroethane 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Tetrachloroethene 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Toluene 5	300	5 U	5 U	37	3800 J	3400 J	5 U	170 U
Chlorobenzene 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Ethylbenzene 5	400	5 U	5 U	24	1000	850	5 U	120
Styrene 5	25 U	5 U	5 U	5 U	100 U	50 U	5 U	25 U
Total Xylenes 5	1400	5 U	5 U	140	4700	4300	5 U	660
Dilution Factor:	5.00	1.00	1.00	1.00	20.0	10.0	1.00	5.00
Sample Volume\Weight (ml\g):	1.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:	BC072495A1	BC072195A1	BC072195A1	WL1075C	WL1075C	WL1075A	44691	WL1075A
Associated Equipment Blank:	WOBSXX1XXX01XX	WOBSXX1XXX01XX	WOBSXX1XXX01XX	WOBSXX5XXX01XX	WOBSXX5XXX01XX	WOBSXX5XXX01XX	WOBSXX2XXX01XX	WOBSXX5XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-
Associated Trip Blank:	WOBTXX1XXX01XX	WOBTXX1XXX01XX	WOBTXX1XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX2XXX02XX	WOBTXX5XXX01XX

Table 2
Validation / Summary Table

		LOCATION:	WMW-205	WMW-206	WMW-206	WMW-207	WMW-208	WMW-208	WMW-209	WMW-210
		ISIS ID:	WOGW205XXB01XX	WOGW206XXI01XX	WOGW206XXX01XX	WOGW207XXX01XX	WOGW208XXI01XX	WOGW208XXX01XX	WOGW209XXX01XX	WOGW210XXX01XX
		LAB NUMBER:	WL1075-6	44691-005	44691-009	44688-007	44688-008	44688-004	44691-006	44691-007
		DATE SAMPLED:	07/15/95	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95
		DATE ANALYZED:	07/26/95	07/20/95	07/20/95	07/25/95	07/24/95	07/25/95	07/20/95	07/20/95
ANALYTE	SW-846.3	CRQL								
Chloromethane		10	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Bromomethane		10	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Vinyl Chloride		10	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Chloroethane		10	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Methylene Chloride		5	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
Acetone		10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
Carbon Disulfide		5	10 U	33 U	10 U	10 U	33 U	10 U	10 U	10 U
1,1-Dichloroethene		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,1-Dichloroethane		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,2-Dichloroethene (total)		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Chloroform		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,2-Dichloroethane		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
2-Butanone		10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
1,1,1-Trichloroethane		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Carbon Tetrachloride		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Vinyl Acetate		10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
Bromodichloromethane		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,2-Dichloropropane		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
trans-1,3-Dichloropropene		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Trichloroethene		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Dibromochloromethane		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Benzene		5	5 U	18	7	5 U	640	5 U	5 U	5 U
cis-1,3-Dichloropropene		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Bromoform		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
2-Hexanone		10	15 U	50 U	15 U	15 U	50 U	15 U	15 U	15 U
1,1,2,2-Tetrachloroethane		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Tetrachloroethene		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Toluene		5	5 U	90	5 U	6	92	5 U	5 U	5 U
Chlorobenzene		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Ethylbenzene		5	5 U	660	5 U	5 U	390	5 U	5 U	5 U
Styrene		5	5 U	17 U	5 U	5 U	17 U	5 U	5 U	5 U
Total Xylenes		5	5 U	710	5	5 U	1100	5 U	5 U	5 U
Dilution Factor:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):			5.00	1.50	5.00	5.00	1.50	5.00	5.00	5.00
Associated Method Blank:			WL1075C	44691	44691	BC072595A1	BC072495A1	BC072595A1	44691	44691
Associated Equipment Blank:			WOBSXX5XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX1XXX01XX	WOBSXX1XXX01XX	WOBSXX1XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX
Associated Field Blank:			-	-	-	-	-	-	-	-
Associated Trip Blank:			WOBTXX5XXX01XX	WOBTXX2XXX02XX	WOBTXX2XXX02XX	WOBTXX1XXX01XX	WOBTXX1XXX01XX	WOBTXX1XXX01XX	WOBTXX2XXX02XX	WOBTXX2XXX02XX

Table 2
Validation / Summary Table

LOCATION:	WMW-211	WMW-212	WMW-213	WMW-214	WMW-301 DUP	WMW-301	WMW-302	WMW-303
ISIS ID:	WOGW211XXX01XX	WOGW212XXI01XX	WOGW213XXI01XX	WOGW214XXI01XX	WOGW301XXX01XD	WOGW301XXX01XX	WOGW302XXX01XX	WOGW303XXX01XX
LAB NUMBER:	44691-008	44691-004	44691-002	44691-001	WL1062-4	WL1062-3	WL1062-5	WL1062-7
DATE SAMPLED:	07/11/95	07/12/95	07/12/95	07/12/95	07/13/95	07/13/95	07/13/95	07/12/95
DATE ANALYZED:	07/20/95	07/20/95	07/20/95	07/20/95	07/19/95	07/19/95	07/19/95	07/19/95
ANALYTE SW-846.3 CRQL								
Chloromethane 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride 5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone 10	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Carbon Disulfide 5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total) 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone 10	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
1,1,1-Trichloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate 10	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Bromodichloromethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene 5	5 U	5 U	11	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone 10	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
2-Hexanone 10	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
1,1,2,2-Tetrachloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene 5	5 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U
Chlorobenzene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene 5	5 U	5 U	5 U	5 U	640	620	450	8
Styrene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total Xylenes 5	5 U	5 U	5 U	5 U	2300	2200	1200	24
Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:	44691	44691	44691	44691	WL1062A	WL1062A	WL1062A	WL1062A
Associated Equipment Blank:	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX2XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-
Associated Trip Blank:	WOBTXX2XXX02XX	WOBTXX2XXX02XX	WOBTXX2XXX02XX	WOBTXX2XXX02XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX

Table 2
Validation / Summary Table

LOCATION:	WMW-304	WMW-305	WMW-305	WMW-306	WMW-307 DUP	WMW-307	WMW-401	WMW-402
ISIS ID:	WOGW304XXA01XX	WOGW305XXI01XX	WOGW305XXX01XX	WOGW306XXX01XX	WOGW307XXX01XD	WOGW307XXX01XX	WOGW401XXX01XX	WOGW402XXX01XX
LAB NUMBER:	WL1062-12	WL1062-6	WL1062-14	WL1074-4	WL1062-16	WL1062-15	WL1074-14	WL1075-10
DATE SAMPLED:	07/12/95	07/12/95	07/12/95	07/13/95	07/12/95	07/12/95	07/13/95	07/14/95
DATE ANALYZED:	07/19/95	07/21/95	07/19/95	07/20/95	07/21/95	07/21/95	07/25/95	07/26/95
ANALYTE SW-846.3 CRQL								
Chloromethane 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
Bromomethane 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
Vinyl Chloride 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
Chloroethane 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
Methylene Chloride 5	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
Acetone 10	15 U	15 U	15 U	15 U	150 U	150 U	15 U	150 U
Carbon Disulfide 5	10 U	10 U	10 U	10 U	100 U	100 U	10 U	100 U
1,1-Dichloroethene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,1-Dichloroethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,2-Dichloroethene (total) 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Chloroform 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,2-Dichloroethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
2-Butanone 10	15 U	15 U	15 U	15 U	150 U	150 U	15 U	150 U
1,1,1-Trichloroethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Carbon Tetrachloride 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Vinyl Acetate 10	15 U	15 U	15 U	15 U	150 U	150 U	15 U	150 U
Bromodichloromethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,2-Dichloropropane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
trans-1,3-Dichloropropene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Trichloroethene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Dibromochloromethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
1,1,2-Trichloroethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Benzene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
cis-1,3-Dichloropropene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Bromoform 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
4-Methyl-2-Pentanone 10	15 U	15 U	15 U	15 U	45 J	150 U	15 U	150 U
2-Hexanone 10	15 U	15 U	15 U	15 U	150 U	150 U	15 U	150 U
1,1,2,2-Tetrachloroethane 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Tetrachloroethene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Toluene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	180
Chlorobenzene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Ethylbenzene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	1300
Styrene 5	5 U	5 U	5 U	5 U	50 U	50 U	5 U	50 U
Total Xylenes 5	5 U	5 U	1 J	5 U	50 U	30 J	5 U	14000
Dilution Factor:	1.00	1.00	1.00	1.00	10.0	10.0	1.00	10.0
Sample Volume\Weight (ml\g):	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:	WL1062A	WL1062C	WL1062A	WL1074A	WL1062C	WL1062C	WL1074C	WL1075B
Associated Equipment Blank:	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX3XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX3XXX01XX	WOBSXX4XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-
Associated Trip Blank:	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX4XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX4XXX01XX	WOBTXX5XXX01XX

Table 2
Validation / Summary Table

LOCATION:	WMW-403	WMW-404	WMW-405	WMW-406	WMW-406	WMW-407	WMW-409	WMW-410
ISIS ID:	WOGW403XXX01XX	WOGW404XXX01XX	WOGW405XXX01XX	WOGW406XXI01XX	WOGW406XXX01XX	WOGW407XXI01XX	WOGW409XXI01XX	WOGW410XXD01XX
LAB NUMBER:	WL1074-13	WL1074-8	WL1074-7	WL1075-8	WL1075-9	WL1074-5	WL1074-2	WL1074-1
DATE SAMPLED:	07/13/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95
DATE ANALYZED:	07/21/95	07/21/95	07/20/95	07/26/95	07/26/95	07/20/95	07/21/95	07/20/95
ANALYTE SW-846.3 CRQL								
Chloromethane 10	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
Bromomethane 10	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
Vinyl Chloride 10	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
Chloroethane 10	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
Methylene Chloride 5	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
Acetone 10	15 U	2 J	15 U	75 U	30 U	15 U	15 U	15 U
Carbon Disulfide 5	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U
1,1-Dichloroethene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,1-Dichloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,2-Dichloroethene (total) 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Chloroform 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,2-Dichloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
2-Butanone 10	15 U	15 U	15 U	75 U	30 U	15 U	15 U	15 U
1,1,1-Trichloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Carbon Tetrachloride 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Vinyl Acetate 10	15 U	15 U	15 U	75 U	30 U	15 U	15 U	15 U
Bromodichloromethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,2-Dichloropropane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
trans-1,3-Dichloropropene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Trichloroethene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Dibromochloromethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
1,1,2-Trichloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Benzene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	72
cis-1,3-Dichloropropene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Bromoform 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
4-Methyl-2-Pentanone 10	15 U	15 U	15 U	75 U	30 U	15 U	15 U	15 U
2-Hexanone 10	15 U	15 U	15 U	75 U	30 U	15 U	15 U	15 U
1,1,2,2-Tetrachloroethane 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Tetrachloroethene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Toluene 5	5 U	5 U	5 U	56 U	10 U	5 U	5 U	490
Chlorobenzene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Ethylbenzene 5	5 U	5 U	21	760	55	1 J	9	420
Styrene 5	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U
Total Xylenes 5	5 U	5 U	17 U	3500	290	5 U	58	2000
Dilution Factor:	1.00	1.00	1.00	5.00	2.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:	WL1074B	WL1074B	WL1074A	WL1075B	WL1075B	WL1074A	WL1074B	WL1074A
Associated Equipment Blank:	WOBSXX3XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-
Associated Trip Blank:	WOBTXX4XXX01XX	WOBTXX4XXX01XX	WOBTXX4XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX4XXX01XX	WOBTXX4XXX01XX	WOBTXX4XXX01XX

Table 2
Validation / Summary Table

LOCATION:	WMW-501	WMW-502	WMW-503	WMW-504	WMW-505	WMW-506	WMW-506	WMW-507 DUP
ISIS ID:	WOGW501XXX01XX	WOGW502XXX01XX	WOGW503XXX01XX	WOGW504XXX01XX	WOGW505XXX01XX	WOGW506XXI01XX	WOGW506XXX01XX	WOGW507XXX01XD
LAB NUMBER:	WL1075-12	WL1075-11	WL1075-14	WL1075-13	WL1062-2	WL1062-8	WL1062-1	WL1074-11
DATE SAMPLED:	07/14/95	07/14/95	07/14/95	07/14/95	07/13/95	07/13/95	07/13/95	07/13/95
DATE ANALYZED:	07/26/95	07/26/95	07/27/95	07/26/95	07/19/95	07/21/95	07/19/95	07/21/95
ANALYTE SW-846.3	CRQL							
Chloromethane	10	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
Bromomethane	10	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
Vinyl Chloride	10	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
Chloroethane	10	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
Methylene Chloride	5	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
Acetone	10	15 U	150 U	300 U	300 U	15 U	140	15 U	15 U
Carbon Disulfide	5	10 U	100 U	200 U	200 U	10 U	50 U	10 U	10 U
1,1-Dichloroethene	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,1-Dichloroethane	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Chloroform	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,2-Dichloroethane	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
2-Butanone	10	15 U	150 U	300 U	300 U	15 U	75 U	15 U	15 U
1,1,1-Trichloroethane	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Carbon Tetrachloride	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Vinyl Acetate	10	15 U	150 U	300 U	300 U	15 U	75 U	15 U	15 U
Bromodichloromethane	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,2-Dichloropropane	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Trichloroethene	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Dibromochloromethane	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Benzene	5	2 J	51	630	100 U	5 U	13 J	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Bromoform	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
4-Methyl-2-Pentanone	10	15 U	150 U	300 U	300 U	15 U	75 U	15 U	15 U
2-Hexanone	10	15 U	150 U	300 U	300 U	15 U	75 U	15 U	15 U
1,1,2,2-Tetrachloroethane	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Tetrachloroethene	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Toluene	5	160	50 U	13000	270 U	5 U	110 U	5 U	5 U
Chlorobenzene	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Ethylbenzene	5	150	370	1300	930	5 U	610	5 U	5 U
Styrene	5	5 U	50 U	100 U	100 U	5 U	25 U	5 U	5 U
Total Xylenes	5	360	1500	6700	5400	5 U	3400	5 U	6 J
Dilution Factor:		1.00	10.0	20.0	20.0	1.00	5.00	1.00	1.00
Sample Volume\Weight (ml\g):		5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Associated Method Blank:		WL1075C	WL1075C	WL1075D	WL1075C	WL1062A	WL1062C	WL1062A	WL1074B
Associated Equipment Blank:		WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX4XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX
Associated Field Blank:		-	-	-	-	-	-	-	-
Associated Trip Blank:		WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX4XXX01XX

Table 2
Validation / Summary Table

LOCATION:		WMW-507	WMW-508	WMW-510	WMW-601	WMW-701	WMW-702	WMW-704 DUP	WMW-704
ISIS ID:		WOGW507XXX01XX	WOGW508XXX01XX	WOGW510XXI01XX	WOGW601XXX01XX	WOGW701XXX01XX	WOGW702XXX01XX	WOGW704XXX01XD	WOGW704XXX01XX
LAB NUMBER:		WL1074-10	WL1074-9	WL1062-10	WL1062-11	WL1075-3	WL1075-16	44688-006	44688-005
DATE SAMPLED:		07/13/95	07/13/95	07/13/95	07/12/95	07/15/95	07/15/95	07/11/95	07/11/95
DATE ANALYZED:		08/01/95	07/21/95	07/19/95	07/19/95	07/25/95	07/26/95	07/24/95	07/25/95
ANALYTE	SW-846.3 CRQL								
Chloromethane	10	10 UJ	10 U	10 U	10 U	100 U	10 U	500 U	420 U
Bromomethane	10	10 UJ	10 U	10 U	10 U	100 U	10 U	500 U	420 U
Vinyl Chloride	10	10 UJ	10 U	10 U	10 U	100 U	10 U	500 U	420 U
Chloroethane	10	10 UJ	10 U	10 U	10 U	100 U	10 U	500 U	420 U
Methylene Chloride	5	10 UJ	10 U	10 U	10 U	100 U	10 U	500 U	420 U
Acetone	10	1 J	15 U	15 U	15 U	150 U	15 U	750 U	630 U
Carbon Disulfide	5	10 UJ	10 U	10 U	10 U	100 U	10 U	500 U	420 U
1,1-Dichloroethene	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
1,1-Dichloroethane	5	5 UJ	5 U	5 U	5 U	10 J	5 U	250 U	210 U
1,2-Dichloroethene (total)	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Chloroform	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
1,2-Dichloroethane	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
2-Butanone	10	15 UJ	15 U	15 U	15 U	150 U	15 U	750 U	630 U
1,1,1-Trichloroethane	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Carbon Tetrachloride	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Vinyl Acetate	10	15 UJ	15 U	15 U	15 U	150 U	15 U	750 U	630 U
Bromodichloromethane	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
1,2-Dichloropropane	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
trans-1,3-Dichloropropene	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Trichloroethene	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Dibromochloromethane	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
1,1,2-Trichloroethane	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Benzene	5	5 UJ	5 U	5	5 U	50 U	5 U	370 J	570 J
cis-1,3-Dichloropropene	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Bromoform	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
4-Methyl-2-Pentanone	10	15 UJ	15 U	15 U	15 U	150 U	15 U	750 U	630 U
2-Hexanone	10	15 UJ	15 U	15 U	15 U	150 U	15 U	750 U	630 U
1,1,2,2-Tetrachloroethane	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Tetrachloroethene	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Toluene	5	5 UJ	5 U	5 U	5 U	3400	5 U	5900	6100
Chlorobenzene	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Ethylbenzene	5	5 UJ	5 U	16	5 U	1400	5 U	2000	1700
Styrene	5	5 UJ	5 U	5 U	5 U	50 U	5 U	250 U	210 U
Total Xylenes	5	5 UJ	5 U	11 U	2 J	5400	5 U	8300	7100
Dilution Factor:		1.00	1.00	1.00	1.00	10.0	1.00	1.00	1.00
Sample Volume\Weight (ml\g):		5.00	5.00	5.00	5.00	5.00	5.00	.100	.120
Associated Method Blank:		WL1074B	WL1074B	WL1062A	WL1062A	WL1075A	WL1075C	BC072495A1	BC072595A1
Associated Equipment Blank:		WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX3XXX01XX	WOBSXX2XXX01XX	WOBSXX5XXX01XX	WOBSXX5XXX01XX	WOBSXX1XXX01XX	WOBSXX1XXX01XX
Associated Field Blank:		-	-	-	-	-	-	-	-
Associated Trip Blank:		WOBTXX4XXX01XX	WOBTXX4XXX01XX	WOBTXX3XXX01XX	WOBTXX3XXX01XX	WOBTXX5XXX01XX	WOBTXX5XXX01XX	WOBTXX1XXX01XX	WOBTXX1XXX01XX

Table 2
Validation / Summary Table

		LOCATION:	WMW-707		WMW-2		WMW-5	
		ISIS ID:	WOGW707XXX01XX		WOGWXX2XXD01XX		WOGWXX5XXD01XX	
		LAB NUMBER:	WL1075-2		44691-003		WL1074-3	
		DATE SAMPLED:	07/15/95		07/12/95		07/13/95	
		DATE ANALYZED:	07/25/95		07/20/95		07/20/95	
ANALYTE	SW-846.3 CRQL							
Chloromethane	10		50	U	10	U	10	U
Bromomethane	10		50	U	10	U	10	U
Vinyl Chloride	10		50	U	10	U	10	U
Chloroethane	10		50	U	10	U	10	U
Methylene Chloride	5		50	U	10	U	10	U
Acetone	10		75	U	15	U	15	U
Carbon Disulfide	5		50	U	10	U	10	U
1,1-Dichloroethene	5		25	U	5	U	5	U
1,1-Dichloroethane	5		25	U	5	U	5	U
1,2-Dichloroethene (total)	5		25	U	5	U	5	U
Chloroform	5		25	U	5	U	5	U
1,2-Dichloroethane	5		25	U	5	U	5	U
2-Butanone	10		75	U	15	U	15	U
1,1,1-Trichloroethane	5		25	U	5	U	5	U
Carbon Tetrachloride	5		25	U	5	U	5	U
Vinyl Acetate	10		75	U	15	U	15	U
Bromodichloromethane	5		25	U	5	U	5	U
1,2-Dichloropropane	5		25	U	5	U	5	U
trans-1,3-Dichloropropene	5		25	U	5	U	5	U
Trichloroethene	5		25	U	10		3	J
Dibromochloromethane	5		25	U	5	U	5	U
1,1,2-Trichloroethane	5		25	U	5	U	5	U
Benzene	5		220		5	U	1	J
cis-1,3-Dichloropropene	5		25	U	5	U	5	U
Bromoform	5		25	U	5	U	5	U
4-Methyl-2-Pentanone	10		75	U	15	U	15	U
2-Hexanone	10		75	U	15	U	15	U
1,1,2,2-Tetrachloroethane	5		25	U	5	U	5	U
Tetrachloroethene	5		25	U	11		5	U
Toluene	5		1300		5	U	5	U
Chlorobenzene	5		25	U	5	U	5	U
Ethylbenzene	5		680		5	U	10	U
Styrene	5		25	U	5	U	5	U
Total Xylenes	5		2900		5	U	5	U
Dilution Factor:			5.00		1.00		1.00	
Sample Volume\Weight (ml\g):			5.00		5.00		5.00	
Associated Method Blank:			WL1075A		44691		WL1074A	
Associated Equipment Blank:			WOBSXX5XXX01XX		WOBSXX2XXX01XX		WOBSXX3XXX01XX	
Associated Field Blank:			-		-		-	
Associated Trip Blank:			WOBTXX5XXX01XX		WOBTXX2XXX02XX		WOBTXX4XXX01XX	

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-201	WMW-202 DUP	WMW-202	WMW-204	WMW-205	WMW-206	WMW-208	WMW-213
ISIS ID:	WOGW201XXX01XX	WOGW202XXX01XD	WOGW202XXX01XX	WOGW204XXX01XX	WOGW205XXB01XX	WOGW206XXI01XX	WOGW208XXI01XX	WOGW213XXI01XX
LAB NUMBER:	WL1075-4	WL1075-7	WL1075-1	WL1075-5 $	WL1075-6	WL1057-3	WL1045-3	WL1057-2
DATE SAMPLED:	07/15/95	07/15/95	07/15/95	07/15/95	07/15/95	07/12/95	07/11/95	07/12/95
DATE EXTRACTED:	07/21/95	07/21/95	07/21/95	07/21/95	07/21/95	07/14/95	07/13/95	07/14/95
DATE ANALYZED:	07/28/95	08/03/95	07/31/95	07/28/95	07/28/95	07/17/95	07/18/95	07/17/95

ANALYTE	*SW-846.3*	*CRQL*																			
Phenol		10	10	U	30	U	50	U	2	J	10	U	10	U	10	U	1	JB
bis(2-Chloroethyl)ether		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol		10	10	U	30	U	50	U	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2-Methylphenol		10	10	U	26	J	16	J	21		10	U	10	U	10	U	10	U
bis(2-Chloroisopropyl)ether		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
4-Methylphenol		10	2	J	31		20	J	60		10	U	8	J	10	U	10	U
N-Nitroso-di-n-propylamine		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Hexachloroethane		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Nitrobenzene		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Isophorone		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol		10	10	U	30	U	50	U	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol		10	10	U	30	U	50		24		10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol		10	10	U	30	U	50	U	10	U	10	U	16		10	U	10	U
1,2,4-Trichlorobenzene		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Naphthalene		10	14		100		190		75		10	U	47		52		17	
4-Chloroaniline		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-Methylphenol		10	10	U	30	U	50	U	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene		10	11		50		99		29		10	U	19		19		4	J
Hexachlorocyclopentadiene		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol		10	10	U	30	U	50	U	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol		50	50	U	75	U	130	U	50	U	50	U	25	U	25	U	25	U
2-Chloronaphthalene		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline		50	25	U	25	U	130	U	25	U	25	U	25	U	25	U	25	U
Dimethylphthalate		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Acenaphthylene		10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline		50	25	U	25	U	130	U	25	U	25	U	25	U	25	U	25	U
Acenaphthene		10	1	J	10	U	50	U	10	U	10	U	10	U	1	J	10	U
2,4-Dinitrophenol		50	50	U	75	U	130	U	50	U	50	U	25	U	25	U	25	U
4-Nitrophenol		50	50	U	75	U	130	U	50	U	50	U	25	U	25	U	25	U
Dibenzofuran		10	1	J	1	J	2	J	10	U	10	U	10	U	1	J	10	U

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-201	WMW-202 DUP	WMW-202	WMW-204	WMW-205	WMW-206	WMW-208	WMW-213
ISIS ID:	WOGW201XXX01XX	WOGW202XXX01XD	WOGW202XXX01XX	WOGW204XXX01XX	WOGW205XXB01XX	WOGW206XXI01XX	WOGW208XXI01XX	WOGW213XXI01XX
LAB NUMBER:	WL1075-4	WL1075-7	WL1075-1	WL1075-5 $	WL1075-6	WL1057-3	WL1045-3	WL1057-2
DATE SAMPLED:	07/15/95	07/15/95	07/15/95	07/15/95	07/15/95	07/12/95	07/11/95	07/12/95
DATE EXTRACTED:	07/21/95	07/21/95	07/21/95	07/21/95	07/21/95	07/14/95	07/13/95	07/14/95
DATE ANALYZED:	07/28/95	08/03/95	07/31/95	07/28/95	07/28/95	07/17/95	07/18/95	07/17/95
ANALYTE SW-846.3 CRQL								
2,4-Dinitrotoluene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate 10	10 U	10 U	50 U	10 U	10 U	1 JB	10 U	2 JB
4-Chlorophenyl-phenylether 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Fluorene 10	2 J	2 J	3 J	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline 50	25 U	25 U	130 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol 50	50 U	50 U	130 U	50 U	50 U	25 U	25 U	25 U
N-Nitrosodiphenylamine 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol 50	50 U	50 U	130 U	50 U	50 U	25 U	25 U	25 U
Phenanthrene 10	4 J	1 J	50 U	10 U	10 U	10 U	1 J	10 U
Anthracene 10	1 J	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene 10	1 J	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Pyrene 10	1 J	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine 20	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate 10	2 JB	280 B	350 B	4 JB	4 JB	7 JB	34 B	13 B
Chrysene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)Fluoranthene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Dilution Factor:	1.00	1.00	5.00	1.00	1.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):	1000	1000	1000	1000	1000	1000	1000	1000
Associated Method Blank:	WL1075B/1320B	WL1075B/1320B	WL1075B	WL1075B/1320C	WL1075B/1320B	WL1057A	WL-1045-C	WL1057A
Associated Equipment Blank:	-	-	-	-	-	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 1
Laboratory Report of Analysis

ANALYTE	SW-846.3	CRQL							
		LOCATION:	WMW-214	WMW-301 DUP	WMW-301	WMW-302	WMW-303	WMW-305	WMW-306	WMW-402
		ISIS ID:	WOGW214XXI01XX	WOGW301XXX01XD	WOGW301XXX01XX	WOGW302XXX01XX	WOGW303XXX01XX	WOGW305XXI01XX	WOGW306XXX01XX	WOGW402XXX01XX
		LAB NUMBER:	WL1057-1	WL1062-4	WL1062-3	WL1062-5	WL1062-7	WL1062-6	WL1074-4	WL1075-10 @
		DATE SAMPLED:	07/12/95	07/13/95	07/13/95	07/13/95	07/12/95	07/12/95	07/13/95	07/14/95
		DATE EXTRACTED:	07/14/95	07/18/95	07/18/95	07/18/95	07/18/95	07/18/95	07/20/95	07/20/95
		DATE ANALYZED:	07/17/95	07/22/95	07/24/95	07/22/95	07/25/95	07/24/95	07/29/95	07/29/95
Phenol		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10	10 U	1 J	2 J	9 J	10 U	10 U	10 U	5 J
N-Nitroso-di-n-propylamine		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10	10 U	8 J	7 J	4 J	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10	10 U	10 U	10 U	10 U	12	10 U	10 U	6 J
4-Chloroaniline		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10	10 U	10 U	10 U	10 U	16	10	3 J	6 J
Hexachlorocyclopentadiene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	50 U
2-Chloronaphthalene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J
2,4-Dinitrophenol		50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	50 U
4-Nitrophenol		50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	50 U
Dibenzofuran		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-214	WMW-301 DUP	WMW-301	WMW-302	WMW-303	WMW-305	WMW-306	WMW-402
ISIS ID:	WOGW214XXI01XX	WOGW301XXX01XD	WOGW301XXX01XX	WOGW302XXX01XX	WOGW303XXX01XX	WOGW305XXI01XX	WOGW306XXX01XX	WOGW402XXX01XX
LAB NUMBER:	WL1057-1	WL1062-4	WL1062-3	WL1062-5	WL1062-7	WL1062-6	WL1074-4	WL1075-10 @
DATE SAMPLED:	07/12/95	07/13/95	07/13/95	07/13/95	07/12/95	07/12/95	07/13/95	07/14/95
DATE EXTRACTED:	07/14/95	07/18/95	07/18/95	07/18/95	07/18/95	07/18/95	07/20/95	07/20/95
DATE ANALYZED:	07/17/95	07/22/95	07/24/95	07/22/95	07/25/95	07/24/95	07/29/95	07/29/95
ANALYTE SW-846.3 CRQL								
2,4-Dinitrotoluene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate 10	1 JB	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J
4-Nitroaniline 50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol 50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	50 U
N-Nitrosodiphenylamine 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol 50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	50 U
Phenanthrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine 20	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate 10	4 JB	13 B	18 B	10 B	9 JB	8 JB	1 J	8 J
Chrysene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):	1000	1000	1000	1000	1000	1000	1000	1000
Associated Method Blank:	WL1057A	WL1062	WL1062	WL1062	WL1062	WL1062	WL1074	WL1075A/1320A
Associated Equipment Blank:	WOBSXX2XXX01XX	-	-	-	WOBSXX2XXX01XX	WOBSXX2XXX01XX	-	-
Associated Field Blank:	-	-	-	-	-	-	-	-

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 1
Laboratory Report of Analysis

		LOCATION:	WMW-406	WMW-406	WMW-409	WMW-410	WMW-501	WMW-502	WMW-503	WMW-504
		ISIS ID:	WOGW406XXI01XX	WOGW406XXX01XX	WOGW409XXI01XX	WOGW410XXD01XX	WOGW501XXX01XX	WOGW502XXX01XX	WOGW503XXX01XX	WOGW504XXX01XX
		LAB NUMBER:	WL1075-8	WL1075-9	WL1074-2	WL1074-1	WL1075-12	WL1075-11	WL1075-14	WL1075-13 @
		DATE SAMPLED:	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95
		DATE EXTRACTED:	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95
		DATE ANALYZED:	07/29/95	07/29/95	07/29/95	07/29/95	07/29/95	07/29/95	08/03/95	07/29/95
ANALYTE	SW-846.3	CRQL								
Phenol		10	10 U	10 U	10 U	10 U	10 U	5 J	10 J	10 U
bis(2-Chloroethyl)ether		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
2-Chlorophenol		10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,3-Dichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
1,4-Dichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
1,2-Dichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
2-Methylphenol		10	10 U	10 U	10 U	10 U	10 U	10 U	55	7 J
bis(2-Chloroisopropyl)ether		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
4-Methylphenol		10	1 J	3 J	10 U	2 J	22	2 J	68	11
N-Nitroso-di-n-propylamine		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Hexachloroethane		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Nitrobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Isophorone		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
2-Nitrophenol		10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2,4-Dimethylphenol		10	10 U	10 U	10 U	4 J	10 U	9 J	17 J	51
bis(2-Chloroethoxy)methane		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
2,4-Dichlorophenol		10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,2,4-Trichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Naphthalene		10	100	10 U	3 J	61	10 U	49	120	110
4-Chloroaniline		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Hexachlorobutadiene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
4-Chloro-3-Methylphenol		10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2-Methylnaphthalene		10	67	10 U	6 J	82	10 U	22	40	61
Hexachlorocyclopentadiene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
2,4,6-Trichlorophenol		10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2,4,5-Trichlorophenol		50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
2-Chloronaphthalene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
2-Nitroaniline		50	25 U	25 U	25 U	25 U	25 U	25 U	100 U	25 U
Dimethylphthalate		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Acenaphthylene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
3-Nitroaniline		50	25 U	25 U	25 U	25 U	25 U	25 U	100 U	25 U
Acenaphthene		10	1 J	10 U	10 U	1 J	10 U	10 U	40 U	10 U
2,4-Dinitrophenol		50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
4-Nitrophenol		50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
Dibenzofuran		10	1 J	10 U	10 U	10 U	10 U	10 U	40 U	10 U

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 1
Laboratory Report of Analysis

		LOCATION:	WMW-406	WMW-406	WMW-409	WMW-410	WMW-501	WMW-502	WMW-503	WMW-504
		ISIS ID:	WOGW406XXI01XX	WOGW406XXX01XX	WOGW409XXI01XX	WOGW410XXD01XX	WOGW501XXX01XX	WOGW502XXX01XX	WOGW503XXX01XX	WOGW504XXX01XX
		LAB NUMBER:	WL1075-8	WL1075-9	WL1074-2	WL1074-1	WL1075-12	WL1075-11	WL1075-14	WL1075-13 @
		DATE SAMPLED:	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95
		DATE EXTRACTED:	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95
		DATE ANALYZED:	07/29/95	07/29/95	07/29/95	07/29/95	07/29/95	07/29/95	08/03/95	07/29/95
ANALYTE	SW-846.3	CRQL								
2,4-Dinitrotoluene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
2,6-Dinitrotoluene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Diethylphthalate		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
4-Chlorophenyl-phenylether		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Fluorene		10	1 J	10 U	10 U	10 U	10 U	10 U	40 U	10 U
4-Nitroaniline		50	25 U	25 U	25 U	25 U	25 U	25 U	100 U	25 U
4,6-Dinitro-2-methylphenol		50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
N-Nitrosodiphenylamine		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
4-Bromophenyl-phenylether		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Hexachlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Pentachlorophenol		50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
Phenanthrene		10	1 J	10 U	10 U	1 J	10 U	10 U	40 U	10 U
Anthracene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Di-n-butylphthalate		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Fluoranthene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Pyrene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Butylbenzylphthalate		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
3,3'-Dichlorobenzidine		20	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Benzo(a)Anthracene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
bis(2-Ethylhexyl)phthalate		10	5 J	2 J	4 J	2 J	10 U	2 J	10 J	3 J
Chrysene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Di-n-octylphthalate		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Benzo(b)Fluoranthene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Benzo(k)Fluoranthene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Benzo(a)Pyrene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Indeno(1,2,3-c,d)Pyrene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Dibenz(a,h)Anthracene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Benzo(g,h,i)perylene		10	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Dilution Factor:			1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00
Sample Volume\Weight (ml\g):			1000	1000	1000	1000	1000	1000	1000	1000
Associated Method Blank:			WL1075A/1320A	WL1075A/1320A	WL1074	WL1074	WL1075A/1320A	WL1075A/1320A	WL1075A/1320A	WL1075A/1320A
Associated Equipment Blank:			-	-	-	-	-	-	-	-
Associated Field Blank:			-	-	-	-	-	-	-	-

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-505	WMW-506	WMW-506	WMW-701	WMW-704 DUP	WMW-704	WMW-707	WMW-5
ISIS ID:	WOGW505XXX01XX	WOGW506XXI01XX	WOGW506XXX01XX	WOGW701XXX01XX	WOGW704XXX01XD	WOGW704XXX01XX	WOGW707XXX01XX	WOGWXX5XXD01XX
LAB NUMBER:	WL1062-2	WL1062-8	WL1062-1	WL1075-3 @	WL1045-2	WL1045-1	WL1075-2	WL1074-3
DATE SAMPLED:	07/13/95	07/13/95	07/13/95	07/15/95	07/11/95	07/11/95	07/15/95	07/13/94
DATE EXTRACTED:	07/18/95	07/18/95	07/18/95	07/21/95	07/18/95	07/18/95	07/21/95	07/20/95
DATE ANALYZED:	07/24/95	07/31/95	07/21/95	07/28/95	07/24/95	07/24/95	07/28/95	07/29/95
ANALYTE SW-846.3	CRQL							
Phenol	10	10 U	10 U	10 U	100 U	100 U	4 J	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	30	100 U	100 U	18	10 U
bis(2-Chloroisopropyl)ether	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	6 J	100 U	100 U	7 J	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	8 J	2 J	10 U	100 U	100 U	10 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
Naphthalene	10	10 U	100	2 J	82	450	640	86
4-Chloroaniline	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
Hexachlorobutadiene	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
4-Chloro-3-Methylphenol	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
2-Methylnaphthalene	10	10 U	58	10 U	23	250	360	24
Hexachlorocyclopentadiene	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
2,4,5-Trichlorophenol	50	25 U	25 U	25 U	50 U	250 U	250 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
2-Nitroaniline	50	25 U	25 U	25 U	25 U	250 U	250 U	25 U
Dimethylphthalate	10	10 U	10 U	10 U	1 J	100 U	100 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
3-Nitroaniline	50	25 U	25 U	25 U	25 U	250 U	250 U	25 U
Acenaphthene	10	10 U	10 U	10 U	10 U	100 U	100 U	10 U
2,4-Dinitrophenol	50	25 U	25 U	25 U	50 U	250 U	250 U	50 U
4-Nitrophenol	50	25 U	25 U	25 U	50 U	250 U	250 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	7 J	10 J	10 U

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 1
Laboratory Report of Analysis

LOCATION:	WMW-505	WMW-506	WMW-506	WMW-701	WMW-704 DUP	WMW-704	WMW-707	WMW-5
ISIS ID:	WOGW505XXX01XX	WOGW506XXI01XX	WOGW506XXX01XX	WOGW701XXX01XX	WOGW704XXX01XD	WOGW704XXX01XX	WOGW707XXX01XX	WOGWXX5XXD01XX
LAB NUMBER:	WL1062-2	WL1062-8	WL1062-1	WL1075-3 @	WL1045-2	WL1045-1	WL1075-2	WL1074-3
DATE SAMPLED:	07/13/95	07/13/95	07/13/95	07/15/95	07/11/95	07/11/95	07/15/95	07/13/94
DATE EXTRACTED:	07/18/95	07/18/95	07/18/95	07/21/95	07/18/95	07/18/95	07/21/95	07/20/95
DATE ANALYZED:	07/24/95	07/31/95	07/21/95	07/28/95	07/24/95	07/24/95	07/28/95	07/29/95
ANALYTE SW-846.3 CRQL								
2,4-Dinitrotoluene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2,6-Dinitrotoluene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Diethylphthalate 10	10 U	10 U	10 U	10 U	100 U	100 U	1 J	10 U
4-Chlorophenyl-phenylether 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Fluorene 10	10 U	10 U	10 U	10 U	21 J	28 J	10 U	10 U
4-Nitroaniline 50	25 U	25 U	25 U	25 U	250 U	250 U	25 U	25 U
4,6-Dinitro-2-methylphenol 50	25 U	25 U	25 U	50 U	250 U	250 U	50 U	25 U
N-Nitrosodiphenylamine 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
4-Bromophenyl-phenylether 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Hexachlorobenzene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Pentachlorophenol 50	25 U	25 U	25 U	50 U	250 U	250 U	50 U	25 U
Phenanthrene 10	10 U	2 J	10 U	10 U	8 J	11 J	10 U	10 U
Anthracene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Di-n-butylphthalate 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Fluoranthene 10	1 J	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Pyrene 10	1 J	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Butylbenzylphthalate 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
3,3'-Dichlorobenzidine 20	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Benzo(a)Anthracene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
bis(2-Ethylhexyl)phthalate 10	21 B	12 B	8 JB	12 B	3300 B	3900 B	1 J	2 J
Chrysene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Di-n-octylphthalate 10	10 U	10 U	10 U	10 U	25 J	27 J	10 U	10 U
Benzo(b)Fluoranthene 10	2 J	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Benzo(k)Fluoranthene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Benzo(a)Pyrene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Dibenz(a,h)Anthracene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Benzo(g,h,i)perylene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Dilution Factor:	1.00	1.00	1.00	1.00	10.0	10.0	1.00	1.00
Sample Volume\Weight (ml\g):	1000	1000	1000	1000	1000	1000	1000	1000
Associated Method Blank:	WL1062	WL1062	WL1062	WL1075B/1320C	WL-1045-C	WL-1045-C	WL1075B/1320B	WL1074
Associated Equipment Blank:	-	-	-	-	WOBSXX2XXX01XX	WOBSXX2XXX01XX	-	-
Associated Field Blank:	-	-	-	-	-	-	-	-

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 2
Validation / Summary Table

LOCATION:	WMW-201	WMW-202 DUP	WMW-202	WMW-204	WMW-205	WMW-206	WMW-208	WMW-213
ISIS ID:	WOGW201XXX01XX	WOGW202XXX01XD	WOGW202XXX01XX	WOGW204XXX01XX	WOGW205XXB01XX	WOGW206XXI01XX	WOGW208XXI01XX	WOGW213XXI01XX
LAB NUMBER:	WL1075-4	WL1075-7	WL1075-1	WL1075-5 $	WL1075-6	WL1057-3	WL1045-3	WL1057-2
DATE SAMPLED:	07/15/95	07/15/95	07/15/95	07/15/95	07/15/95	07/12/95	07/11/95	07/12/95
DATE EXTRACTED:	07/21/95	07/21/95	07/21/95	07/21/95	07/21/95	07/14/95	07/13/95	07/14/95
DATE ANALYZED:	07/28/95	08/03/95	07/31/95	07/28/95	07/28/95	07/17/95	07/18/95	07/17/95

ANALYTE	SW-846.3 CRQL																			
Phenol	10	10	U	30	U	50	U	2	J	10	U	10	U		R	10	U
bis(2-Chloroethyl)ether	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	10	10	U	30	U	50	U	10	U	10	U	10	U		R	10	U
1,3-Dichlorobenzene	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2-Methylphenol	10	10	U	26	J	16	J	21		10	U	10	U		R	10	U
bis(2-Chloroisopropyl)ether	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	10	2	J	31	J	20	J	60		10	U	8	J		R	10	U
N-Nitroso-di-n-propylamine	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Hexachloroethane	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Nitrobenzene	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Isophorone	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	10	10	U	30	U	50	U	10	U	10	U	10	U		R	10	U
2,4-Dimethylphenol	10	10	U	30	UJ	50	J	24		10	U	10	U		R	10	U
bis(2-Chloroethoxy)methane	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	10	U	30	U	50	U	10	U	10	U	16			R	10	U
1,2,4-Trichlorobenzene	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Naphthalene	10	14		100	J	190	J	75		10	U	47		52		17	
4-Chloroaniline	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-Methylphenol	10	10	U	30	U	50	U	10	U	10	U	10	U		R	10	U
2-Methylnaphthalene	10	11		50	J	99	J	29		10	U	19		19		4	J
Hexachlorocyclopentadiene	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	10	10	U	30	U	50	U	10	U	10	U	10	U		R	10	U
2,4,5-Trichlorophenol	50	50	U	75	U	130	U	50	U	50	U	25	U		R	25	U
2-Chloronaphthalene	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	50	25	U	25	U	130	U	25	U	25	U	25	U	25	U	25	U
Dimethylphthalate	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	10	10	U	10	U	50	U	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	50	25	U	25	U	130	U	25	U	25	U	25	U	25	U	25	U
Acenaphthene	10	1	J	10	U	50	U	10	U	10	U	10	U	1	J	10	U
2,4-Dinitrophenol	50	50	U	75	U	130	U	50	U	50	U	25	U		R	25	U
4-Nitrophenol	50	50	U	75	U	130	U	50	U	50	U	25	U		R	25	U
Dibenzofuran	10	1	J	1	J	2	J	10	U	10	U	10	U	1	J	10	U

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 2
Validation / Summary Table

LOCATION:	WMW-201	WMW-202 DUP	WMW-202	WMW-204	WMW-205	WMW-206	WMW-208	WMW-213
ISIS ID:	WOGW201XXX01XX	WOGW202XXX01XD	WOGW202XXX01XX	WOGW204XXX01XX	WOGW205XXB01XX	WOGW206XXI01XX	WOGW208XXI01XX	WOGW213XXI01XX
LAB NUMBER:	WL1075-4	WL1075-7	WL1075-1	WL1075-5 $	WL1075-6	WL1057-3	WL1045-3	WL1057-2
DATE SAMPLED:	07/15/95	07/15/95	07/15/95	07/15/95	07/15/95	07/12/95	07/11/95	07/12/95
DATE EXTRACTED:	07/21/95	07/21/95	07/21/95	07/21/95	07/21/95	07/14/95	07/13/95	07/14/95
DATE ANALYZED:	07/28/95	08/03/95	07/31/95	07/28/95	07/28/95	07/17/95	07/18/95	07/17/95
ANALYTE SW-846.3 CRQL								
2,4-Dinitrotoluene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Fluorene 10	2 J	2 J	3 J	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline 50	25 U	25 U	130 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol 50	50 U	50 U	130 U	50 U	50 U	25 U	R	25 U
N-Nitrosodiphenylamine 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol 50	50 U	50 U	130 U	50 U	50 U	25 U	R	25 U
Phenanthrene 10	4 J	1 J	50 U	10 U	10 U	10 U	1 J	10 U
Anthracene 10	1 J	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene 10	1 J	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Pyrene 10	1 J	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine 20	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate 10	10 U	280	350	10 U	10 U	10 U	34 U	13 U
Chrysene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)Fluoranthene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene 10	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Dilution Factor:	1.00	1.00	5.00	1.00	1.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):	1000	1000	1000	1000	1000	1000	1000	1000
Associated Method Blank:	WL1075B/1320B	WL1075B/1320B	WL1075B	WL1075B/1320C	WL1075B/1320B	WL1057A	WL-1045-C	WL1057A
Associated Equipment Blank:	-	-	-	-	-	WOBSXX2XXX01XX	WOBSXX2XXX01XX	WOBSXX2XXX01XX
Associated Field Blank:	-	-	-	-	-	-	-	-

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 2
Validation / Summary Table

	LOCATION:		WMW-214	WMW-301 DUP	WMW-301	WMW-302	WMW-303	WMW-305	WMW-306	WMW-402
	ISIS ID:		WOGW214XXI01XX	WOGW301XXX01XD	WOGW301XXX01XX	WOGW302XXX01XX	WOGW303XXX01XX	WOGW305XXI01XX	WOGW306XXX01XX	WOGW402XXX01XX
	LAB NUMBER:		WL1057-1	WL1062-4	WL1062-3	WL1062-5	WL1062-7	WL1062-6	WL1074-4	WL1075-10 @
	DATE SAMPLED:		07/12/95	07/13/95	07/13/95	07/13/95	07/12/95	07/12/95	07/13/95	07/14/95
	DATE EXTRACTED:		07/14/95	07/18/95	07/18/95	07/18/95	07/18/95	07/18/95	07/20/95	07/20/95
	DATE ANALYZED:		07/17/95	07/22/95	07/24/95	07/22/95	07/25/95	07/24/95	07/29/95	07/29/95
ANALYTE	SW-846.3	CRQL								
Phenol		10	R	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10	R	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10	R	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10	R	1 J	2 J	9 J	10 U	10 U	10 U	5 J
N-Nitroso-di-n-propylamine		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10	R	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10	R	8 J	7 J	4 J	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10	R	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10	10 U	10 U	10 U	10 U	12	10 U	10 U	6 J
4-Chloroaniline		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10	R	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10	10 U	10 U	10 U	10 U	16	10	3 J	6 J
Hexachlorocyclopentadiene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10	R	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		50	R	25 U	25 U	25 U	25 U	25 U	25 U	50 U
2-Chloronaphthalene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J
2,4-Dinitrophenol		50	R	25 U	25 U	25 U	25 U	25 U	25 U	50 U
4-Nitrophenol		50	R	25 U	25 U	25 U	25 U	25 U	25 U	50 U
Dibenzofuran		10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 2
Validation / Summary Table

LOCATION:	WMW-214	WMW-301 DUP	WMW-301	WMW-302	WMW-303	WMW-305	WMW-306	WMW-402
ISIS ID:	WOGW214XXI01XX	WOGW301XXX01XD	WOGW301XXX01XX	WOGW302XXX01XX	WOGW303XXX01XX	WOGW305XXI01XX	WOGW306XXX01XX	WOGW402XXX01XX
LAB NUMBER:	WL1057-1	WL1062-4	WL1062-3	WL1062-5	WL1062-7	WL1062-6	WL1074-4	WL1075-10 @
DATE SAMPLED:	07/12/95	07/13/95	07/13/95	07/13/95	07/12/95	07/12/95	07/13/95	07/14/95
DATE EXTRACTED:	07/14/95	07/18/95	07/18/95	07/18/95	07/18/95	07/18/95	07/20/95	07/20/95
DATE ANALYZED:	07/17/95	07/22/95	07/24/95	07/22/95	07/25/95	07/24/95	07/29/95	07/29/95
ANALYTE SW-846.3 CRQL								
2,4-Dinitrotoluene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J
4-Nitroaniline 50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol 50	R	25 U	25 U	25 U	25 U	25 U	25 U	50 U
N-Nitrosodiphenylamine 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol 50	R	25 U	25 U	25 U	25 U	25 U	25 U	50 U
Phenanthrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine 20	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate 10	10 U	13 U	18 U	10 U	10 U	10 U	1 J	8 J
Chrysene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Sample Volume\Weight (ml\g):	1000	1000	1000	1000	1000	1000	1000	1000
Associated Method Blank:	WL1057A	WL1062	WL1062	WL1062	WL1062	WL1062	WL1074	WL1075A/1320A
Associated Equipment Blank:	WOBSXX2XXX01XX	-	-	-	WOBSXX2XXX01XX	WOBSXX2XXX01XX	-	-
Associated Field Blank:	-	-	-	-	-	-	-	-

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 2
Validation / Summary Table

LOCATION:	WMW-406	WMW-406	WMW-409	WMW-410	WMW-501	WMW-502	WMW-503	WMW-504
ISIS ID:	WOGW406XXI01XX	WOGW406XXX01XX	WOGW409XXI01XX	WOGW410XXD01XX	WOGW501XXX01XX	WOGW502XXX01XX	WOGW503XXX01XX	WOGW504XXX01XX
LAB NUMBER:	WL1075-8	WL1075-9	WL1074-2	WL1074-1	WL1075-12	WL1075-11	WL1075-14	WL1075-13 @
DATE SAMPLED:	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95
DATE EXTRACTED:	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95
DATE ANALYZED:	07/29/95	07/29/95	07/29/95	07/29/95	07/29/95	07/29/95	08/03/95	07/29/95
ANALYTE SW-846.3 CRQL								
Phenol 10	10 U	10 U	10 U	10 U	10 U	5 J	10 J	10 U
bis(2-Chloroethyl)ether 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2-Chlorophenol 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,3-Dichlorobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,4-Dichlorobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,2-Dichlorobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2-Methylphenol 10	10 U	10 U	10 U	10 U	10 U	10 U	55	7 J
bis(2-Chloroisopropyl)ether 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
4-Methylphenol 10	1 J	3 J	10 U	2 J	22	2 J	68	11
N-Nitroso-di-n-propylamine 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Hexachloroethane 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Nitrobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Isophorone 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2-Nitrophenol 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2,4-Dimethylphenol 10	10 U	10 U	10 U	4 J	10 U	9 J	17 J	51
bis(2-Chloroethoxy)methane 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2,4-Dichlorophenol 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
1,2,4-Trichlorobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Naphthalene 10	100	10 U	3 J	61	10 U	49	120	110
4-Chloroaniline 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Hexachlorobutadiene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
4-Chloro-3-Methylphenol 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2-Methylnaphthalene 10	67	10 U	6 J	82	10 U	22	40	61
Hexachlorocyclopentadiene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2,4,6-Trichlorophenol 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2,4,5-Trichlorophenol 50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
2-Chloronaphthalene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2-Nitroaniline 50	25 U	25 U	25 U	25 U	25 U	25 U	50 U	25 U
Dimethylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Acenaphthylene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
3-Nitroaniline 50	25 U	25 U	25 U	25 U	25 U	25 U	50 U	25 U
Acenaphthene 10	1 J	10 U	10 U	1 J	10 U	10 U	20 U	10 U
2,4-Dinitrophenol 50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
4-Nitrophenol 50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
Dibenzofuran 10	1 J	10 U	10 U	10 U	10 U	10 U	20 U	10 U

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 2
Validation / Summary Table

LOCATION:	WMW-406	WMW-406	WMW-409	WMW-410	WMW-501	WMW-502	WMW-503	WMW-504
ISIS ID:	WOGW406XXI01XX	WOGW406XXX01XX	WOGW409XXI01XX	WOGW410XXD01XX	WOGW501XXX01XX	WOGW502XXX01XX	WOGW503XXX01XX	WOGW504XXX01XX
LAB NUMBER:	WL1075-8	WL1075-9	WL1074-2	WL1074-1	WL1075-12	WL1075-11	WL1075-14	WL1075-13 @
DATE SAMPLED:	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95	07/14/95
DATE EXTRACTED:	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95	07/20/95
DATE ANALYZED:	07/29/95	07/29/95	07/29/95	07/29/95	07/29/95	07/29/95	08/03/95	07/29/95
ANALYTE SW-846.3 CRQL								
2,4-Dinitrotoluene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
2,6-Dinitrotoluene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Diethylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
4-Chlorophenyl-phenylether 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Fluorene 10	1 J	10 U	10 U	10 U	10 U	10 U	20 U	10 U
4-Nitroaniline 50	25 U	25 U	25 U	25 U	25 U	25 U	50 U	25 U
4,6-Dinitro-2-methylphenol 50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
N-Nitrosodiphenylamine 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
4-Bromophenyl-phenylether 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Hexachlorobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Pentachlorophenol 50	50 U	50 U	25 U	25 U	50 U	50 U	100 U	50 U
Phenanthrene 10	1 J	10 U	10 U	1 J	10 U	10 U	20 U	10 U
Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Di-n-butylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Butylbenzylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
3,3'-Dichlorobenzidine 20	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Benzo(a)Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
bis(2-Ethylhexyl)phthalate 10	5 J	2 J	4 J	2 J	10 U	2 J	10 J	3 J
Chrysene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Di-n-octylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Benzo(b)Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Benzo(k)Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Benzo(a)Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Indeno(1,2,3-c,d)Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Dibenz(a,h)Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Benzo(g,h,i)perylene 10	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U
Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00
Sample Volume\Weight (ml\g):	1000	1000	1000	1000	1000	1000	1000	1000
Associated Method Blank:	WL1075A/1320A	WL1075A/1320A	WL1074	WL1074	WL1075A/1320A	WL1075A/1320A	WL1075A/1320A	WL1075A/1320A
Associated Equipment Blank:	-	-	-	-	-	-	-	-
Associated Field Blank:	-	-	-	-	-	-	-	-

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 2
Validation / Summary Table

LOCATION:	WMW-505	WMW-506	WMW-506	WMW-701	WMW-704 DUP	WMW-704	WMW-707	WMW-5
ISIS ID:	WOGW505XXX01XX	WOGW506XXI01XX	WOGW506XXX01XX	WOGW701XXX01XX	WOGW704XXX01XD	WOGW704XXX01XX	WOGW707XXX01XX	WOGWXX5XXD01XX
LAB NUMBER:	WL1062-2	WL1062-8	WL1062-1	WL1075-3 @	WL1045-2	WL1045-1	WL1075-2	WL1074-3
DATE SAMPLED:	07/13/95	07/13/95	07/13/95	07/15/95	07/11/95	07/11/95	07/15/95	07/13/94
DATE EXTRACTED:	07/18/95	07/18/95	07/18/95	07/21/95	07/18/95	07/18/95	07/21/95	07/20/95
DATE ANALYZED:	07/24/95	07/31/95	07/21/95	07/28/95	07/24/95	07/24/95	07/28/95	07/29/95
ANALYTE SW-846.3 CRQL								
Phenol 10	10 U	10 U	10 U	10 U	100 U	100 U	4 J	10 U
bis(2-Chloroethyl)ether 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2-Chlorophenol 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
1,3-Dichlorobenzene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
1,4-Dichlorobenzene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
1,2-Dichlorobenzene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2-Methylphenol 10	10 U	10 U	10 U	30	100 U	100 U	18	10 U
bis(2-Chloroisopropyl)ether 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
4-Methylphenol 10	10 U	10 U	10 U	6 J	100 U	100 U	7 J	10 U
N-Nitroso-di-n-propylamine 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Hexachloroethane 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Nitrobenzene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Isophorone 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2-Nitrophenol 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2,4-Dimethylphenol 10	10 U	8 J	2 J	10 U	100 U	100 U	10 U	10 U
bis(2-Chloroethoxy)methane 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2,4-Dichlorophenol 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
1,2,4-Trichlorobenzene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Naphthalene 10	10 U	100	2 J	82	450 J	640 J	86	43
4-Chloroaniline 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Hexachlorobutadiene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
4-Chloro-3-Methylphenol 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2-Methylnaphthalene 10	10 U	58	10 U	23	250 J	360 J	24	13
Hexachlorocyclopentadiene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2,4,6-Trichlorophenol 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2,4,5-Trichlorophenol 50	25 U	25 U	25 U	50 U	250 U	250 U	50 U	25 U
2-Chloronaphthalene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2-Nitroaniline 50	25 U	25 U	25 U	25 U	250 U	250 U	25 U	25 U
Dimethylphthalate 10	10 U	10 U	10 U	1 J	100 U	100 U	10 U	10 U
Acenaphthylene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
3-Nitroaniline 50	25 U	25 U	25 U	25 U	250 U	250 U	25 U	25 U
Acenaphthene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2,4-Dinitrophenol 50	25 U	25 U	25 U	50 U	250 U	250 U	50 U	25 U
4-Nitrophenol 50	25 U	25 U	25 U	50 U	250 U	250 U	50 U	25 U
Dibenzofuran 10	10 U	10 U	10 U	10 U	7	10 J	10 U	10 U

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

Table 2
Validation / Summary Table

LOCATION:	WMW-505	WMW-506	WMW-506	WMW-701	WMW-704 DUP	WMW-704	WMW-707	WMW-5
ISIS ID:	WOGW505XXX01XX	WOGW506XXI01XX	WOGW506XXX01XX	WOGW701XXX01XX	WOGW704XXX01XD	WOGW704XXX01XX	WOGW707XXX01XX	WOGWXX5XXD01XX
LAB NUMBER:	WL1062-2	WL1062-8	WL1062-1	WL1075-3 @	WL1045-2	WL1045-1	WL1075-2	WL1074-3
DATE SAMPLED:	07/13/95	07/13/95	07/13/95	07/15/95	07/11/95	07/11/95	07/15/95	07/13/94
DATE EXTRACTED:	07/18/95	07/18/95	07/18/95	07/21/95	07/18/95	07/18/95	07/21/95	07/20/95
DATE ANALYZED:	07/24/95	07/31/95	07/21/95	07/28/95	07/24/95	07/24/95	07/28/95	07/29/95
ANALYTE SW-846.3 CRQL								
2,4-Dinitrotoluene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
2,6-Dinitrotoluene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Diethylphthalate 10	10 U	10 U	10 U	10 U	100 U	100 U	1 J	10 U
4-Chlorophenyl-phenylether 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Fluorene 10	10 U	10 U	10 U	10 U	21	28 J	10 U	10 U
4-Nitroaniline 50	25 U	25 U	25 U	25 U	250 U	250 U	25 U	25 U
4,6-Dinitro-2-methylphenol 50	25 U	25 U	25 U	50 U	250 U	250 U	50 U	25 U
N-Nitrosodiphenylamine 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
4-Bromophenyl-phenylether 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Hexachlorobenzene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Pentachlorophenol 50	25 U	25 U	25 U	50 U	250 U	250 U	50 U	25 U
Phenanthrene 10	10 U	2 J	10 U	10 U	8	11 J	10 U	10 U
Anthracene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Di-n-butylphthalate 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Fluoranthene 10	1 J	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Pyrene 10	1 J	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Butylbenzylphthalate 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
3,3'-Dichlorobenzidine 20	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Benzo(a)Anthracene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
bis(2-Ethylhexyl)phthalate 10	21 U	12 U	10 U	12	3300 J	3900 J	10 U	2 J
Chrysene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Di-n-octylphthalate 10	10 U	10 U	10 U	10 U	25	27 J	10 U	10 U
Benzo(b)Fluoranthene 10	2 J	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Benzo(k)Fluoranthene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Benzo(a)Pyrene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Dibenz(a,h)Anthracene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Benzo(g,h,i)perylene 10	10 U	10 U	10 U	10 U	100 U	100 U	10 U	10 U
Dilution Factor:	1.00	1.00	1.00	1.00	10.0	10.0	1.00	1.00
Sample Volume\Weight (ml\g):	1000	1000	1000	1000	1000	1000	1000	1000
Associated Method Blank:	WL1062	WL1062	WL1062	WL1075B/1320C	WL-1045-C	WL-1045-C	WL1075B/1320B	WL1074
Associated Equipment Blank:	-	-	-	-	WOBSXX2XXX01XX	WOBSXX2XXX01XX	-	-
Associated Field Blank:	-	-	-	-	-	-	-	-

$: Acid fraction analyzed 08/25/95
@: Acid fraction analyzed 08/28/95

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-05
AQUEOUS (ug/L)

VOLATILE

	WOGW205XXB01XX	WOGW202XXX01XD-DL	WOGW202XXX01XD-DL	WOGW406XXI01XX-DL
Cyclohexane, Methyl-	10 JN			290 JN
Cyclohexane, 1,2-dimethyl-trans	5 JN			
Unknown	17 J		250 J	
Alkane	8 J	25000 J(9)	2400 J(4)	
C10H14 isomer	5 J		910 J(2)	
C10H22 isomer		1200 J		
C9H20 isomer		5700 J(2)		
Naphthalene			420 JN	100 JN
C9H12 isomer			2400 J(4)	2700 J(6)
Cyclobutane, ethyl-				210 JN
Benzene, propyl-				140 JN
Benzene, cyclopropyl-				110 JN

	WOGW406XXI01XX-DL	WOGW406XXX01XX-DL	WOGW402XXX01XX-DL	WOGW402XXX01XX-DL
Cyclohexane, Methyl-	180 JN	110 JN	370 JN	5100 JN
C9H12 isomer	2900 J(6)	910 J(6)	3200 J(6)	
Benzene, Propyl-		39 JN		
C10H14 isomer		170 J(4)		
Cyclopenane, Methyl			160 JN	
Unknown			180 J	9000 J(2)
C9H10 isomer			160 J	
Naphthalene			200 JN	
Alkane				39000 J(8)
Cyclohexane,1,4-dimethyl-trans				2900 JN

	WOGW202XXX01XX	WOGW202XXX01XX-DL	WOGW707XXX01XX-DL	WOGW707XXX01XX-DL
Cyclohexane, Methyl-	430 J		110 JN	150 JN
Alkane	1800 J(4)	740 J(2)		
C9H12 isomer	2500 J(5)	1600 J(3)	2900 J(5)	2700 J(6)
C10H14 isomer	410 J			
Naphthalene	310 JN	520 J	110 JN	110 JN
Napthalene,1-methyl		2800 JN		
Dimethyl Naphthalene isomer		260 J		
Pyrrolidine			140 JN	
Cyclopentane, Methyl-			280 JN	
Benzene, Propyl-			140 JN	
1H-Indene,2,3-dihydro-			240 JN	
Benzene,1-ethenyl-2-methyl-				230 JN
2,3-Dihydro-1-methylindene				76 JN
C10H12 isomer				110 J

	WOGW701XXX01XX-DL	WOGW701XXX01XX-DL	WOGW201XXX01XX	WOGW204XXX01XX
Cyclopentane, Methyl-	1200 JN	390 JN		52 JN
Alkane	18000 J(9)	1200 J(3)		
C9H12 isomer	2800 J(2)	4200 J(4)	160 J(6)	840 J(6)
Cyclopentane		320 JN		
Benzene,1-ethenyl-2-methyl-		380 JN		
Naphthalene		350 JN	6 J	54 JN
Cyclohexane, Methyl-			9 JN	76 JN
Benzene, cyclopropyl-			8 J	
C10H14 isomer			20 J(3)	39 J
Unknown				69 J
Benzene, propyl				49 JN

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-05
AQUEOUS (ug/L)

VOLATILE cont.

	WOGW502XXX01XX-DL	WOGW501XXX01XX	WOGW501XXX01XX-DL	WOGW504XXX01XX-DL
Cyclopentane, Methyl-	120 JN	51 JN		360 JN
Cyclohexane, Methyl-	220 JN	82 JN	26 JN	720 JN
C9H12 isomer	1200 J(5)	290 J(6)	96 J(3)	1800 J(4)
Benzene, 1-propenyl-	57 JN			
C10H14 isomer	55 J			
Naphthalene	63 JN	14 JN		190 JN
Alkane		21 J		150 J
Cyclopentane		26 JN		
Unknown		47 J		600 J(2)
Cyclohexane, 1-ehtyl-4-Methyl-cis-				150 JN
Cyclohexane,1,1,3-trimethyl-				210 JN

	WOGW503XXX01XX-DL	WOGW503XXX01XX-DL
Unknown	340 J(2)	
C6H14 isomer	650 J(2)	
C7H14 isomer	430 J	
C10H8 isomer	110 J	
C9H12 isomer	2400 J(6)	1800 J(3)

NO VOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

WOBSXX5XXX01XX
WOGW702XXX01XX
WOBTXX5XXX01XX

SEMIVOLATILE

	WOGW202XXX01XX-RE	WOGW707XXX01XX	WOGW701XXX01XX	WOGW201XXX01XX
Alkane	5200 J(14)	48 J	390 J(6)	
C9H12 isomer	1500 J(4)	1000 J(8)	280 J(5)	110 J(5)
Cyclohexane, 1-methylethyl-	200 J			
Unknown	240 J			22 J(2)
Benzene, 1-ethenyl-2-methyl-		110 JN		
C10H14 isomer		160 J(5)	280 J(4)	13 J(2)
2,3-Dihydro-1-methylindene		16 JN	36 JN	
Naphthalene,1,2,3,4-tetrahydro-		24 JN	61 JN	6 JN
Benzene Methanol,2,5-dimethyl-		9 JN		
Tricyclo[3.3.1.13,7]decan-1-ol		11 JN		
1H-indene,2,3-dihydro-			130 JN	
Benzoic Acid,2,4,5-trimethyl			79 JN	
Benzoic Acid,3-methyl-				6 JN
Naphthalene,1-methyl-				10 JN

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-05
AQUEOUS (ug/L)

SEMIVOLATILE cont.

	WOGW504XXX01XX	WOGW501XXX01XX
C9H10O2 isomer	23 J	
C9H12 isomer	670 J(4)	
C9H10 isomer	44 J	
C10H14 isomer	12 J(3)	
C10H12 isomer	6 J	
Alkane	27 J	
Cyclohexanol, 4-methyl-	22 JN	
Naphthalene,1-methyl-	15 JN	
Cyclopentane,1-Ethyl-3-Methyl-	21 JN	
Unknown	10 J(2)	100 J(6)
Maltol		5 JN
Phenol,3,ethyl-		5 JN
Propanedioc acid,phenyl-		10 JN
Decanoic acid, 2-hydroxy-		39 JN
Tetradecanoic acid		8 JN
Pentadecanoic acid		8 JN
9-Hexadecenoic acid		63 JN
Hexandecanoic acid		27 JN
15-Tetracosenoic acid, methyl ester,(z)-		84 JN
Phenol, 4-methyl-		22 JN
Phenol, 2-ethyl-		
2-Hexene,4,4,5-trimethyl-		
Dodecanoic acid, silver(1+) salt		
1-Ethyl-Naphthalene	17 JN	

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-01
AQUEOUS (ug/L)

VOLATILE

	WOGW214XXI01XX	WOGW213XXI01XX	WOGW206XXI01XX	WOGW209XXX01XX
unknown	11 J(2)			20 J
Benzene,1-Ethyl-2,3-Dimethyl-	5.8 JN			5.3 JN
Benzene,1-Ethyl-3,5-Dimethyl-	5.7 JN			6.5 JN
Benzene,2-Ethyl-1,4-Dimethyl-	8 JN			5.9 JN
Benzene,4-Ethyl-1,2-Dimethyl-	8 JN			
Benzene,1-Methyl-2-(1-Methylethyl)-	9.2 JN			6 JN
Napthalene		17 JN		13 JN
Benzene,(1-Methylethyl)-		7.4 JN	130 JN	
Benzene,Propyl-			160 JN	
Benzene,1-Ethyl-2-Methyl			500 JN	
Benzene,1-Ethyl-3-Methyl			290 JN	
Benzene,1-Ethyl-4-Methyl			430 JN	
Benzene,1,2,3-Trimethyl-			490 JN	
Benzene,1-mehtyl-3-(1-Methylethyl)-			38 JN	
1,2,4-Trimethylbenzene			1000 JN	
Cyclohexane			120 JN	
Cyclohexane,Methyl			34 JN	
Benzene,1-Methyl-4-(1-Methylethyl)-				9 JN
1H-Indene,2,3-Dihydro-4-Methyl				6.3 JN

	WOGW210XXX01XX	WOGW206XXX01XX
unknown	6.5 J	
Naphthalene	11 JN	
Cyclohexane,1,4-Dimethyl-,Trans-	5.9 JN	
Benzene,(1-Methylethyl)-		27 JN(2)
Benzene,Propyl-		9.6 JN
Benzene,1,2,3-Trimethyl-		9.5 JN

NO VOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

WOGWXX2XX001XX
WOGW212XXI01XX
WOGW211XXX01XX
WOGW203XXX01XX
WOBTXX2XXX02XX
WOBSXX2XXX02XX

SEMIVOLATILE

	WOGW214XXI01XX	WOGW213XXI01XX	WOGW206XXI01XX
unknown	24 J(3)	14 J(2)	
7-Oxabicyclo[4.1.0]Heptane	5 JN		
2-Fluoro-4-Nitrophenol		6 JN	
C9H12 Isomer		13 J	530 J(4)
C10H14 Isomer			210 J(7)
Unknown Aromatic			29 J
Benzene,2-Propenyl-			36 JN
Benzene,1,2-Diethyl-			17 JN
Benzene,Cyclobutyl-			26 JN
Benzene,1-(1,1-Dimethylethyl)-4-Methyl-			18 JN
1H-Indene,2,3-Dihydro-5-Methyl-			13 JN

NO SEMIVOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

WOBSXX2XXX02XX

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-02
AQUEOUS (ug/L)

VOLATILE

	WOGW301XXX01XX	WOGW301XXX01XX	WOGW301XXX01XD	WOGW301XXX01XD-DL
unknown	620 J(3)	160 J	210 J	
Pentane,3-Methyl-	100 JN			
C6H12 Isomer	580 J	1600 J(2)		1700 J(2)
C9H12 Isomer	1200 J(6)	1700 J(6)	1300 J(7)	2000 J(7)
C9H10 Isomer	55 J	72 J		
C7H14 Isomer		450 J		430 J
C8H16 Isomer		78 J		
Naphthalene			61 JN	
Cyclobutane, Ethyl			530 JN	
Cyclohexane, Methyl			360 JN	
C5H10 Isomer				190 J
C10H8 Isomer				100 J

	WOGW302XXX01XX	WOGW302XXX01XX-DL	WOGW305XXI01XX	WOGW303XXX01XX
unknown	200 J	430 J		16 J
C9H12 Isomer	1100 J(6)	1800 J(7)	67 J(3)	260 J(6)
Naphthalene	55 JN			
Cyclobutane,Ethyl	540 JN			
Cyclohexane,Methyl	390 JN		76 JN	
C5H10 Isomer		120 J		
C6H12 Isomer		630 J		
C7H14 Isomer		420 J		
Cyclohexane,1-3-dimethyl-,cis-			24 JN	
Cyclohexane,1-3-dimethyl-,trans-			35 JN	20 JN
Cyclohexane,Ethyl				17 JN
C10H14 Isomer			87 J(5)	15 J
Cyclopentane,Methyl-				68 JN

	WOGW506XXI01XX	WOGW506XXI01XX-DL	WOGW510XXXI01XX	WOGW304XXA01XX
C9H12 Isomer	1600 J(6)	2200 J(6)	110 J(5)	
Cyclobutane,Ethyl	130 JN			
Cyclohexane,Methyl	240 JN	540 JN		160 JN
Benzene,Cycloprepyl	65 JN			
C10H14 Isomer	58 JN		11 J	
Naphthalene	80 JN	80 JN		
Unknown		230 J(2)		
Cyclopentane,Methyl-		32 JN		
Substituted Aromatic			9 J	
Benzene,Propyl-			8 JN	
Benzene,1-Propyl-			5 JN	
Alkane				290 J(5)
Heptane				44 JN
Heptane,2-Methyl-				67 JN
Cyclohexane,3-Methyl-				40 JN
Cyclohexane,propyl-				36 JN
Cyclohexane,1,3-dimethyl-cis-				47 JN
Cyclohexane,1,1,3-trimethyl-				110 JN

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-02
AQUEOUS (ug/L)

VOLATILE cont.

	WOGW307XXX01XX	WOGW307XXX01XD
Alkane	200 J	350 J(2)
C9H12 Isomer	830 J(3)	790 J(3)
Benzene, propyl	96 JN	
Cyclohexane,Ethyl	150 JN	88 JN
Cyclohexane, 1,3-dimethyl-cis-	77 JN	87 JN
Cyclopentane, Methyl	810 JN	780 JN
2,4-Dimethyl-1-Heptene	160 JN	
Cyclohexane Methyl	750 J	910 JN
C10H14 Isomer		86 J

NO VOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

WOGW506XXX01XX
WOGW505XXX01XX
WOGW601XXX01XX
WOBTXX3XXX01XX
WOGW305XXX01XX

SEMIVOLATILE

	WOGW305XXI01XX	WOGW303XXX01XX	WOGW303XXX01XX-RE	WOGW506XXI01XX	WOGW506XXI01XX
C9H12 Isomer	51 J(4)	310 J(5)	320 J(5)	1300 J(6)	1200 J(
C10H14 Isomer	120 J(11)	81 J(7)	74 J(6)	210 J(6)	280 J(
C11H16 Isomer	8 J				
Unknown Aromatic	6 J				
Naphthalene,1-methyl-	7 JN	19 JN	26 JN	51 JN	44 JN
Dimethyl Naphthalene Isomer	6 J	9 J	9 J		
Cyclopentanone,3-methyl		10 JN	10 JN		
Benzene,1-Ethyl-2-Methyl		10 JN	10 JN	45 JN	44 JN
Naphthalene,1,2,3,4-tetrahydro		9 JN	9 JN	29 JN	27 JN
Benzene, Propyl-				61 JN	62 JN
1H-Inden-1-one,2,3-dihydro-4-methyl				31 JN	

	WOGW506XXX01XX	WOGW505XXX01XX	WOGW301XXX01XX	WOGW301XXX01XD
Unknown	5 J		43 J	
C9H12 Isomer	12 J(2)		370 J(5)	360 J(5)
Alkane		28 J(4)		
Hexadecanoic Acid		20 JN		
2-Butanone,4-(acetyloxy)-		58 JN		
Cyclopentanone,3-Methyl-			49 JN	42 JN
Benzene,1-Propenyl-			18 J	
C10H14			72 J(4)	75 J(5)
Naphthalene,1,2,3,4-Tetrahydro			15 JN	11 JN
1H-Indene,2,3-dihydro-4,7 dimethyl			13 JN	16 JN
Naphthalene,1,2,3,4-tetrahydro-5-methyl			12 JN	16 JN
Benzaldehyde,2,4,6-trimethyl-			16 JN	
Unknown Aromatic			17 J	
Benzoic acid,3,5-dimethyl-			26 JN	
Benzoic acid, 3-methyl-				43 JN
Benzoic, 1-ethyl-2-methyl-				18 JN
Cyclopentanone				17 JN

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-02
AQUEOUS (ug/L)

SEMIVOLATILE cont.

	WOGW301XXX01XD-RE	WOGW302XXX01XX	WOGW302XXX01XX-RE
C9H12 Isomer	350 J(5)	32 J(2)	44 J(2)
Cyclopentanone,3-Methyl-	34 JN	140 JN	130 JN
Benzene,1-ethyl-2-methyl	16 JN		
C10H14 Isomer	56 J(4)	19 J(2)	18 J(2)
Naphthalene,1,2,3,4-Tetrahydro	12 JN		
C9H10 Isomer	9 J		
Ethanone,1-(4-hydroxyphenyl)-	11 JN	21 JN	23 JN
1H-Indene,2,3-dihydro-4,7 dimethyl	15 JN		
Naphthalene,1,2,3,4-tetrahydro-5-methyl	18 JN		
Benzoic Acid	14 JN		
Substituted Benzoic Acid	16 J		
Unknown		460 J(7)	70 J(5)
Unknown aromatic			9 J
Cyclopentanone,2,4-dimethyl-		18 JN	16 JN
Cyclopentane,(1-methtylethenyl)-		8 JN	
2H-pyran-2-one,tetrahydro-4-methyl-		18 JN	
Benzene methanol,3,5-dimethyl-		23 JN	23 JN
Phenol,2-ethyl-6-methyl-		32 JN	
1H-Inden-1-one,2,3-dihydro		8 JN	8 JN
Benzene acetic acid		13 JN	
Benzene acetic acid, alpha.-methyl-			16 JN
Phenol,2-ethyl-5-methyl			30 JN
Cyclohexane, ethyl			16 JN
Bicyclo[2.2.2]octane			8 JN

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-05
AQUEOUS (ug/L)

SEMIVOLATILE cont.

	WOGW201XXX01XX-RE	WOGW204XXX01XX	WOGW205XXB01XX	WOGW202XXX01XD
Unknown	11 J	35 J(2)	230 J(16)	52 J
C10H14 isomer	14 J(2)	67 J		
Naphthalene,1,2,3,4-tetrahydro-	5 JN			
Benzoic acid, 3-methyl-	5 JN			
Naphthalene, 1-methyl-	9 JN	55 JN		
Ethanone,1-(2-hydroxy-5-methylphenyl)-	10 JN			
C9H12 isomer	110 J(5)	420 J(5)		64 J
Alkane		230 J(6)	49 J(2)	1600 J(15)
Cyclopentane,1,2,3-trimethyl- (1.alpha.,2.alpha.,3.alpha)-			11 JN	
Cyclopentanone,2,4-dimethyl-			37 JN	
Cyclohexane, (1-methylethyl)-				69 JN
Cyclopentane,1-methylethyl-				69 JN
Benzene, (1,1-Dimethylpropyl)-		27 JN		
C9H10 Isomer		38 J		
C10H12 Isomer		60 J		

	WOGW202XXX01XD DL	WOGW406XXI01XX	WOGW406XXX01XX	WOGW402XXX01XX
Alkane	3700 J(13)			1500 J(5)
C9H12 isomer	670 J(4)	1200 J(6)	410 J(4)	2700 J(5)
Cyclohexane,1-methyl-3-propyl-	130 JN			
C10H14 isomer	120 J	270 J(7)	180 J(6)	820 J(3)
Benzene, propyl-		99 JN		
1H-Indene,2-3-dihydro		62 JN		
2,3-Dihydro-1-methylindene		32 JN		
Naphthalene,1,2,3,4-tetrahydro		33 JN	18 JN	
Substituted Naphthalene		67 J		
Cyclopentane,1-ethyl-3-methyl-trans			22 JN	
Cyclooctane, butyl-			19 JN	
Cyclohexanol,4-methyl			31 JN	
Cyclohexene, 1-ethyl			22 JN	
Unknown			16 J	
C11H16 isomer			15 J	
Heptane,3-ethyl-5-methyl-				480 JN
C10H12 Isomer		28 J		
Naphthalene, 1-Methyl-		48 JN		
1-Pentene,4,4-Dimethyl-				370 JN
Heptane,2,6-Dimethyl-				890 JN
Cyclohexane,Propyl-				260 JN
1H-Indene,2,3-Dihydro-				270 JN
Cyclohexane,1-Ethyl-2,4-Dimethyl				340 JN

	WOGW502XXX01XX	WOGW503XXX01XX	WOGW503XXX01XX
C9H12 isomer	500 J(5)	1400 J(5)	1400 J(5)
C9H10 isomer	27 J	55 J	
C10H14 isomer	140 J(5)	280 J(6)	240 J(6)
C10H12 isomer	33 J	23 J	37 J
Naphthalene,1,2,3,4-tetrahydro-	27 JN	28 JN	31 JN
Naphthalene,1-methyl-	21 J	37 JN	40 JN
Unknown	140 J(2)		
Pentadecanoic acid	63 J		
Hexadecanoic acid	86 J		
Phenol, 2-methyl-		83 JN	86 JN
Phenol,4-methyl-		97 JN	92 JN
Benzoic acid, 3-methyl-		23 JN	22 JN
Benzene,1-ethenyl-2-methyl			63 JN

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-03
AQUEOUS (ug/L)

VOLATILE

	WOGW102XXX01XX	WOGW102XXX01XD	WOGW101XXX01XX	WOGW704XXX01XX
Benzene,1-ethyl-2,3-dimethyl-	9.4 JN			
Benzene,2-ethyl-1,3-dimethyl-	11 JN			
Benzene,4-ethyl-1,2-dimethyl-	11 JN			
unknown	25 J			3900 J(4)
Benzene,1-ethyl-2,4-dimethyl-	7.8 JN			
Benzene,1,2,4,5-tetramethyl-	5.6 JN			
Benzene,1-ethyl-3,5-dimethyl-	12 JN			
Indan, 1-methyl	6.1 JN			
Naphthalene		24 JN		
Cyclohexane			26 JN	
Benzene, (1-methyl ethyl)-			40 JN	
Benzene, propyl			37 JN	
Benzene,1-ethyl-2-methyl-			230 JN(2)	1400 JN
Benzene,1-ethyl-4-methyl-			31 JN	3200 JN
Benzene,1,2,4-trimethyl-			60 JN	
Benzene,1,2,3-trimethyl-			170 JN	
Benzene,1-ethyl-3-methyl-			59 JN	
Pentane,2-methyl-				
Hexane				1500 JN
Octane				730 JN
Undecane				2600 JN

	WOGW704XXX01XD	WOGW208XXI01XX
Pentane,2-methyl	1400 JN	
Decane, 3,3,4-trimethyl	850 JN	
Heptane, 2-methyl	2200 JN	
Heptane, 2,4-dimethyl	1200 JN	
unknown	2900 J	48 J
Nonane	3200 JN	
1-Tetracosanol	2200 JN	
Benzene, 1,2,3-trimethyl	4200 JN	
Undecane	1400 JN	
Cyclopentane, methyl-		79 JN
Cyclohexane		110 JN
Cyclohexane, methyl-		66 JN
Benzene, (1-methylethyl)-		30 JN
Benzene, Propyl-		33 JN
C9H12 isomer		440 J(4)

NO VOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

WOGW208XXX01XX WOBSXX1XXX01XX
WOGW207XXX01XX WOBTXX1XXX01XX

SEMIVOLATILE

	WOBSXX1XXX01XX	WOGW704XXX01XX	WOGW704XXX01XD	WOGW208XXI01XX
unknown	7 J		920 J	27 J(3)
Alkane		34000 J(14)	31000 J(14)	
Benzene, propyl		430 JN	400 JN	
C9H12 isomer		2500 J(2)	990 J(2)	330 J(6)
Cycloalkane		970 J		
C10H14 isomer		4000 J(3)	4050 J(3)	46 J(3)
Benzene, 1-ethyl-2-methyl				21 JN
Napthalene, 1,2,3,4-tetrahydro				11 JN
Benzoic acid, 3-methyl				13 JN
Naphthalene, 1-methyl				12 JN

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR WESTOVER; FILE: 7452-04
AQUEOUS (ug/L)

VOLATILE

	WOGW410XXD01XX	WOGW410XXD01XX-DL	WOGW409XXI01XX	WOGWXX5XXD01XX
Cyclopentane, Methyl	330 JN	370 JN		
C6H12 Isomer	290 J	420 J		
C7H14 Isomer	390 J			
Alkane	58 J	83 J		
C9H12 Isomer	1500 J(7)	2200 J	680 J(6)	54 J
C10H14 Isomer	58 J	74 J	160 J(4)	44 J(2)
Cyclohexane,methyl		290 JN	82 JN	
1-Pentene,2-methyl-			53 JN	
Cyclohexane,1,2-dimethyl-trans				8 JN
Cyclohexane,1,1,3-trimethyl-				9 JN
Naphthalene,1-methyl-				40 JN
Benzene,cyclopropyl-				12 JN
Benzene, 1,2-diethyl-				9 JN
Naphthalene,1,2,3,4-tetrahydro				9 JN
Naphthalene				22 JN
C11H14 isomer				16 J

	WOGW306XXX01XX	WOGW407XXI01XX	WOGW405XXX01XX
Unknown	9 J	8 J	9 J
C9H12 Isomer		28 J(3)	70 J(6)
C10H14 Isomer		8 J	9 J
C7H14 Isomer			8 J
C10H12 Isomer			7 J
C10H8 Isomer			7 J
C9H10 Isomer			5 J

NO VOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

WOBSXX4XXX01XX	WOGW507XXX01XD
WOGW404XXX01XX	WOBTXX4XXX01XX
WOGW508XXX01XX	WOGW403XXX01XX
WOGW507XXX01XX	WOGW401XXX01XX

SEMIVOLATILE

	WOGW410XXXD01XX	WOGW409XXI01XX	WOGWXX5XXD01XX
C9H12 Isomer	920 J(7)	310 J(6)	63 J(2)
Benzene, propyl-	73 JN	14 JN	
1H-Indene,2,3-dihydro-	35 JN		13 JN
C10H14 Isomer	150 J(4)	150 J(9)	75 J(4)
Naphthalene,1,2,3,4-tetrahydro	21 JN	13 JN	16 JN
Naphthalene,1-methyl-	59 JN	11 JN	
Dimethyl naphthalene Isomer	38 J(2)		6 J
C11H14 Isomer		9 J	6 J
C11H16 Isomer			7 J
Unknown Aromatic			5 J
1H-Inden-1-one,2,3-dihydro-3-methyl-			6 JN
Benzoic acid,1,2,4-dimethyl			17 JN

NO SEMIVOLATILE TICs WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

WOGW306XXX01XX

APPENDIX B

1996 ROUND II GROUNDWATER SAMPLING PROGRAM

B-1 Daily Quality Control Reports
B-2 Daily Calibration Data Sheets
B-3 Groundwater Sampling Field Data Records
B-4 Water Level Data Sheets
B-5 Sample Tracking Forms
B-6 Laboratory Analytical Data

B-1 DAILY QUALITY CONTROL REPORTS

ABB
ABB Environmental Services, Inc.

ABB-ES DAILY QUALITY CONTROL REPORT

REPORT NUMBER: 1

COE ENGINEERING MANAGER: Gary Lacroix

PROJECT: Westover AFB

JOB NUMBER: 0 7452-05

CONTRACT NUMBER: DACA33-91-D-006

DATE 7/9/90

Day	S	M	T	W	T	F	S
			X				

Weather	Bright Sun	Clear X	Overcast	Rain	Snow
Temperature	To 32	32-50	50-70	70-85	85 Up X
Wind	Calm X	Moderate	High	Report No. 1	
Humidity	Dry	Moderate	High X		

SUB-CONTRACTORS ON SITE: None

EQUIPMENT ON SITE: Bailer Ground water Sampling Equipment

WORK PERFORMED (INCLUDING SAMPLING)

Ground water Sampling

Katahdin Analytical		AEA - LAB
WO BTXW1XW96XW	- Trip Blank	WO BTXW1XW96XA - Trip Blank
WO BSXW1XW96XW	- Sample Blank	WO BSXW1XW96XA - Sample Blank
WO MW201XW96XW/A	- MS/MSD Blank	WO MW201XW96XA
MW202		☆ MW202 ☆
MW203		
MW204		
MW205XW		
MW206XW		
MW208XW		
MW209		
MW210		
MW212XW		
MW217XW		
☆ MW202XW ☆		

All samples collected for VOC's only

9406002D(D)

SHEET___ OF___

PROJECT: Westover AFB

REPORT NUMBER: 1

JOB NUMBER: 7452.05

DATE 5/9/96

9406002D(D)

PROJECT: Wheeler AFB

REPORT NUMBER: 1

JOB NUMBER: 7453-05

DATE 7/9/96

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)

Field Calibrations -
PID -
Horiba U-10 water quality meter
GH meter

HEALTH AND SAFETY LEVELS AND ACTIVITIES (DAILY HEALTH AND SAFETY AUDIT ATTACHED)

All Activities were done at Level D

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN: none

SPECIAL NOTES none

TOMORROW'S EXPECTATIONS - Continue Ground water Sampling

9406002D(D)

SHEET 2 OF 2

BY [illegible] TITLE Scientist

ABB
ABB Environmental Services, Inc.

ABB-ES DAILY QUALITY CONTROL REPORT

REPORT NUMBER: 2

COE ENGINEERING MANAGER: Gary Lacroix

PROJECT: Westover AFB

JOB NUMBER: 07452-05

CONTRACT NUMBER: DACA33-91-D-0006

DATE 7/10/96

Day	S	M	T	W	T	F	S
				X			

Weather	Bright Sun	Clear X	Overcast	Rain	Snow
Temperature	To 32	32-50	50-70	70-85 X	85 Up
Wind	Calm	Moderate X	High	Report No. 2	
Humidity	Dry	Moderate X	High		

SUB-CONTRACTORS ON SITE: None

EQUIPMENT ON SITE: General Groundwater Sampling Equipment

WORK PERFORMED (INCLUDING SAMPLING)

Samples Collected
WO MW306xxx 96xx
WO MW xx5xxn 96xx

Samples Collected for VOC's Only

9406002D(D)

SHEET 1 OF 3

PROJECT: Westover AFB

JOB NUMBER: 7452-05

REPORT NUMBER: 2

DATE 7/10/96

9406002D(D)

PROJECT: Westover AFB

REPORT NUMBER: D

JOB NUMBER: 7452-05

DATE 7/10/96

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)
PID -
Horiba-410 All Calibrations were OK
Eh-meter

HEALTH AND SAFETY LEVELS AND ACTIVITIES (DAILY HEALTH AND SAFETY AUDIT ATTACHED)
All Activities Conducted at Level D

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN: None

SPECIAL NOTES

TOMORROW'S EXPECTATIONS
Finish Sampling

9406002D(D)

SHEET 3 OF 3

BY [signature] TITLE Scientist

ABB
ABB Environmental Services, Inc.

ABB-ES DAILY QUALITY CONTROL REPORT

DATE 7/11/96

REPORT NUMBER: 3

COE ENGINEERING MANAGER: Gary Lacroix

PROJECT: Westover AFB

JOB NUMBER: 07452-05

CONTRACT NUMBER: DACA33-91-D-0006

Day	S	M	T	W	T	F	S

Weather	Bright Sun	Clear X	Overcast	Rain	Snow
Temperature	To 32	32-50	50-70	70-85	85 Up X
Wind	Calm	Moderate X	High	Report No.	
Humidity	Dry	Moderate X	High	3	

SUB-CONTRACTORS ON SITE: None

EQUIPMENT ON SITE: General groundwater Sampling Equipment.

WORK PERFORMED (INCLUDING SAMPLING)

Sampled Monitoring Well
WO MW 701 XXX96XX
WO MW 702 XXX96XX
WO MW 707 XXX96XX
WO MW 704 XXX96XX

VOCs Only

9406002D(D)

SHEET 1 OF 3

PROJECT: [illegible] AED

JOB NUMBER: 07450.05

REPORT NUMBER: 2

DATE 7/11/96

9406002D(D)

PROJECT: Westover AFB

JOB NUMBER: 07452-05

REPORT NUMBER: 3

DATE 7/17/96

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)

PID -
Hanna H10 Water Quality meter
SH meter

HEALTH AND SAFETY LEVELS AND ACTIVITIES (DAILY HEALTH AND SAFETY AUDIT ATTACHED)

All Activities Conducted at Level C.

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN: none

SPECIAL NOTES

TOMORROW'S EXPECTATIONS

We are done sampling - ~~[illegible]~~

9406002D(D)

SHEET 2 OF 2

BY [signature] TITLE Scientist

B-2 DAILY CALIBRATION DATA SHEETS

CALIBRATION DATA SHEET

Project Westover RAM Investigation

Job No. 9904-02 / [illegible]

Date [illegible]

[illegible]

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____

Dissolved Oxygen

		Avg. Winkler Value ____ppm Meter Value ____ppm

Redox

		Zorbell Sol. Value ____ Meter Value ____

Photoionization Meter

[illegible]		Zero/Zero Air? ☑ Yes ☐ No Span Gas Value [illegible] ppm Equiv. Meter Value [illegible] ppm Equiv.
		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ____ppm Equiv. Meter Value ____ppm Equiv.

Other

[illegible] and [illegible] calibrated

Fluids/Materials Record

Deionized Water Source: [✓] ABB Staging [ ] Portable System [ ] Other ____

Trip Blank Water Source: [✓] ABB Lab: Lot No. [illegible] [ ] Other; ID ____

Decontamination Fluids: [ ] Methyl Hydrate; Lot No. ____ [ ] Other ____ Lot No. ____

Sampler Blank Water Source: [✓] ABB Staging [ ] Port .System [ ] Other ____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No. ____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No. ____

H^2SO^4 Lot No. ____

HCL Lot No. ____

NaOH Lot No. ____

ZnAOC Lot No. ____

Filtration Paper ID:

Manuf/Type ____

Lot No. ____

Sampler Signature [illegible]

Standards

Manuf. ____

Lot No. ____

9603030D(a)

CALIBRATION DATA SHEET

Project Westover RAM Investigation

Job No. 9904-02 / 0745.05

Date 7/9/96

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
[illegible]	[illegible]	pH 4 ✓ (4 0) pH 7 ____ pH 10 ____ Cond 4.4
[illegible]	____	pH 4 ____ pH 7 ____ pH 10 ____ Turb 10
____	____	pH 4 ____ pH 7 ____ pH 10 ____ DO 9.7 mg/L
____	____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
____	____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
____	____	Cond. Std. ____/ ____ Cond. Std. ____/ ____

Dissolved Oxygen

____ ____ Avg. Winkler Value ____ppm Meter Value ____ppm

Redox

[illegible] 290A [illegible] ____ Zorbell Sol. Value 231 Meter Value 225

Photoionization Meter

[illegible] ____ Zero/Zero Air? ☑ Yes ☐ No Span Gas Value 100 ppm Equiv.

Meter Value 101 ppm Equiv.

____ ____ Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ____ppm Equiv.

Meter Value ____ppm Equiv.

Other

____ ____ ____

Fluids/Materials Record

Deionized Water Source: [✓] ABB Staging [ ] Portable System [ ] Other____

Trip Blank Water Source: [ ] ABB Lab; Lot No. [illegible] [ ] Other; ID____

Decontamination Fluids: [ ] Methyl Hydrate; Lot No.____ [ ] Other____ Lot No.____

Sampler Blank Water Source: [✓] ABB Staging [ ] Port .System [ ] Other____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No.____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No. [illegible]

H^2SO^4 Lot No. [illegible]

HCL Lot No. [illegible]

NaOH Lot No.____

ZnAOC Lot No.____

Filtration Paper ID:

Manuf/Type [illegible]

Lot No. N.A.

Sampler Signature [illegible]

Standards

Manuf.____

Lot No.____

9603030D(a)

CALIBRATION DATA SHEET

Project Westover RAM Investigation

Job No. 9904-02 / 0745-05

Date 7/10/96

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
[illegible]	[illegible]	pH 4 ✓ (4.0) pH 7 ____ pH 10 ____
[illegible]	____	pH 4 ____ pH 7 ____ pH 10 ____
____	____	pH 4 ____ pH 7 ____ pH 10 ____
____	____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
____	____	Cond. Std. ____/ ____ Cond. Std. ____/ ____
____	____	Cond. Std. ____/ ____ Cond. Std. ____/ ____

Cond 4.4
Turb 13.
DO 9.9

Dissolved Oxygen

[illegible] ____ Avg. Winkler Value ____ppm Meter Value ____ppm

Redox

[illegible] 290A [illegible] ____ Zorbell Sol. Value 231 Meter Value 225

Photoionization Meter

[illegible] ____ Zero/Zero Air? ☑ Yes ☐ No Span Gas Value 100 ppm Equiv.
Meter Value 101 ppm Equiv.

____ ____ Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ____ppm Equiv.
Meter Value ____ppm Equiv.

Other

____ ____ ____

Fluids/Materials Record

Deionized Water Source: [✓] ABB Staging [ ] Portable System [ ] Other____

Trip Blank Water Source: [ ] ABB Lab; Lot No. Lab supplied [ ] Other; ID____

Decontamination Fluids: [ ] Methyl Hydrate; Lot No.____ [ ] Other____ Lot No.____

Sampler Blank Water Source: [✓] ABB Staging [ ] Port .System [ ] Other____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No.____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No. Lab Supplied

H^2SO^4 Lot No.____

HCL Lot No.____

NaOH Lot No.____

ZnAOC Lot No.____

Filtration Paper ID:

Manuf/Type [illegible]

Lot No. [illegible]

Sampler Signature [illegible]

Standards

Manuf.____

Lot No.____

9603030D(a)

CALIBRATION DATA SHEET

Project **Westover RAM Investigation**

Job No. **9904-02** / 074-05

Date 7/1/99

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information	
Horiba pH meter	good	pH 4 4.9 pH 7 ____ pH 10 ____	Cond 9.4
Cond sol'n	____	pH 4 ____ pH 7 ____ pH 10 ____	Turb 11
____	____	pH 4 ____ pH 7 ____ pH 10 ____	DO 8.8 mg/l
____	____	Cond. Std. ____/ ____	Cond. Std. ____/ ____
____	____	Cond. Std. ____/ ____	Cond. Std. ____/ ____
____	____	Cond. Std. ____/ ____	Cond. Std. ____/ ____

Dissolved Oxygen

____	____	Avg. Winkler Value ____ppm Meter Value ____ppm

Redox

Orion 290A meter	____	Zorbell Sol. Value 231 Meter Value 225

Photoionization Meter

Mini RAE	good	Zero/Zero Air? ☑ Yes ☐ No Span Gas Value 100 ppm Equiv.
		Meter Value 100 ppm Equiv.
____	____	Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ____ppm Equiv.
		Meter Value ____ppm Equiv.

Other

____ ____ ____

Fluids/Materials Record

Deionized Water Source: [✓] ABB Staging [ ] Portable System [ ] Other____

Trip Blank Water Source: [ ] ABB Lab; Lot No. lab supplied [ ] Other; ID____

Decontamination Fluids: [ ] Methyl Hydrate; Lot No.____ [ ] Other____ Lot No.____

Sampler Blank Water Source: [✓] ABB Staging [ ] Port .System [ ] Other____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No.____

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No. lab supplied

H^2SO^4 Lot No. ____

HCL Lot No. ____

NaOH Lot No. ____

ZnAOC Lot No. ____

Filtration Paper ID:

Manuf/Type Cole-Parmer

Lot No. N/A

Sampler Signature [signature]

Standards

Manuf. ____

Lot No. ____

9603030D(a)

CALIBRATION DATA SHEET

Project Westover RAM Investigation

Job No. 9904-02

Date 07/11/94

Field Instrumentation Calibration Data

LOT # 927 EX. 3/98 CD
~~LOT # 951105 947~~
~~EXP 8/97~~ CD
COND = 4.49
TURB. = Ø
SAL. 0.23

Equipment Type/I.D.	Battery Condition	Calibration Information		
M01411 HORIBA		pH 4 ✓	pH 7 ____	pH 10 ____
		pH 4 ____	pH 7 ____	pH 10 ____
		pH 4 ____	pH 7 ____	pH 10 ____
		Cond. Std. ____/ ____		Cond. Std. ____/ ____
		Cond. Std. ____/ ____		Cond. Std. ____/ ____
		Cond. Std. ____/ ____		Cond. Std. ____/ ____
Dissolved Oxygen				
		Avg. Winkler Value ____ ppm		Meter Value ____ ppm
Redox				
M01718	OK	Zorbell Sol. Value 231		Meter Value 240.5
Photoionization Meter				
M00123	OK	Zero/Zero Air? ☑ Yes ☐ No		Span Gas Value 100 ppm Equiv.
				Meter Value 71.5 ppm Equiv.
		Zero/Zero Air? ☐ Yes ☐ No		Span Gas Value ____ ppm Equiv.
				Meter Value ____ ppm Equiv.
Other				

Fluids/Materials Record

Deionized Water Source: [ ] ABB Staging [ ] Portable System [ ] Other ____

Trip Blank Water Source: [ ] ABB Lab; Lot No. ____ [ ] Other; ID ____

Decontamination Fluids: [ ] Methyl Hydrate; Lot No ____ [ ] Other ____ Lot No. ____

Sampler Blank Water Source: [ ] ABB Staging [ ] Port. System [ ] Other ____

HNO^3/DI Rinse Solution: ABB Staging; I.D. No. ____

Preservation Chemical Lot I.D.s: Chemicals Used HNO^3 Lot No. ____

H^2SO^4 Lot No. ____

HCL Lot No. ____

NaOH Lot No. ____

ZnAOC Lot No. ____

Filtration Paper ID:

Manuf/Type ____

Lot No. ____

Sampler Signature Chad M. DuVogt

Chad M. DuVogt

Standards

Manuf. ____

Lot No. ____

9603030D(a)

CALIBRATION DATA SHEET

Project Westover RAM Investigation

Job No. 9904-02

Date 07/09/96

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information
M01411 HORIBA	OK	pH 4 ✓ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		pH 4 ____ pH 7 ____ pH 10 ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
		Cond. Std. ____/ ____ Cond. Std. ____/ ____
Dissolved Oxygen		
		Avg. Winkler Value ____ppm Meter Value ____ppm
Redox		
M01718	OK	Zorbell Sol. Value 231 Meter Value 240.9
Photoionization Meter		
M00123	OK	Zero/Zero Air? ☑ Yes ☐ No Span Gas Value 100 ppm Equiv.
		Meter Value 102.7 ppm Equiv.
		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ___ppm Equiv.
		Meter Value ___ppm Equiv.
Other		

LOT #927 EXP 3/98
COND = 4.48
TURB = Ø
SAL. = 0.23

Fluids/Materials Record

Deionized Water Source: [ ] ABB Staging [ ] Portable System [ ] Other____

Trip Blank Water Source: [ ] ABB Lab: Lot No. ____ [ ] Other: ID____

Decontamination Fluids: [ ] Methyl Hydrate: Lot No. ____ [ ] Other____ Lot No.____

Sampler Blank Water Source: [ ] ABB Staging [ ] Port. System [ ] Other____

HNO^3/DI Rinse Solution: ABB Staging: I.D. No ____

Preservation Chemical Lot I.D.s: Chemicals Used HNO^3 Lot No.____

H^2SO^4 Lot No.____

HCL Lot No.____

NaOH Lot No.____

ZnAOC Lot No.____

Filtration Paper ID:

Manuf/Type____

Lot No.____

Standards

Manuf.____

Lot No.____

Sampler Signature [signature]

Chad M. DeVogt

9603030D(a)

CALIBRATION DATA SHEET

Project Westover RAM Investigation

Job No. 9904-02

Date 5/7/10/96

Field Instrumentation Calibration Data

Equipment Type/I.D.	Battery Condition	Calibration Information	
HORIBA M01411	OK	pH 4 ✓ pH 7 ___ pH 10 ___	LOT# 927 EXP 3/97 Cond. 4.48 Turb. # Sal 0.23
		pH 4 ___ pH 7 ___ pH 10 ___	
		pH 4 ___ pH 7 ___ pH 10 ___	
		Cond. Std. ___/ ___ Cond. Std. ___/ ___	
		Cond. Std. ___/ ___ Cond. Std. ___/ ___	
		Cond. Std. ___/ ___ Cond. Std. ___/ ___	
Dissolved Oxygen			
		Avg. Winkler Value ___ppm Meter Value ___ppm	
Redox			
M01718	OK	Zorbell Sol. Value 231 Meter Value 240.9	
Photoionization Meter			
M00123	OK	Zero/Zero Air? ☑ Yes ☐ No Span Gas Value 102.8 ppm Equiv. Meter Value 102.5 ppm Equiv.	
		Zero/Zero Air? ☐ Yes ☐ No Span Gas Value ___ppm Equiv. Meter Value ___ppm Equiv.	
Other			

Fluids/Materials Record

Deionized Water Source: [ ] ABB Staging [ ] Portable System [ ] Other___

Trip Blank Water Source: [ ] ABB Lab: Lot No. ___ [ ] Other; ID___

Decontamination Fluids: [ ] Methyl Hydrate: Lot No.___ [ ] Other___ Lot No.___

Sampler Blank Water Source: [ ] ABB Staging [ ] Port .System [ ] Other___

HNO^3/DI Rinse Solution: ABB Staging; I.D. No.___

Preservation Chemical Lot I.D.s: Chemicals Used: HNO^3 Lot No.___

H^2SO^4 Lot No.___

HCL Lot No.___

NaOH Lot No.___

ZnAOC Lot No.___

Filtration Paper ID:

Manuf/Type___

Lot No.___

Standards

Manuf.___

Lot No.___

Sampler Signature Chad M. DaWogt

Chad M. DaWogt

9603030D(a)

B-3 GROUNDWATER SAMPLING FIELD DATA RECORDS

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)

SOIL GROUNDWATER OTHER: _____

PROJECT: Westover AFB
JOB NO. 07452-05 DATE 7/9/96
SAMPLE NUMBER (ISIS): WO MW XX2 XXD96XX
TIME OF ACTIVITY: START: 1715 END: 1815
FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR: None
GRAIN SIZE: NA
PID RDG: 0 UNITS: ppm
SATURATED? NA
OTHER: Headspace <10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 100.70
B. DEPTH TO WATER(FT): 24.30
C. HEIGHT OF WATER(FT): 76
D. WELL ID (IN) 2"
E. VOL(GAL): 63
F. HISTORICAL WELL DEPTH(FT): 97
G. MEASURED FROM: RISER CASING
H. CASING STICK-UP(FT): 2.5
I. DIFF WELL AND CASING(FT): -0.23
J. PURGE VOLUME(GAL): 21
L. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
[X]	PID	[ ]	BOTTLE	[X]	LIQUINOX
[ ]	RAD METER	[ ]	SPATULA	[X]	DE-IONIZED WATER
[ ]	EXPLOSIMETER	[ ]	ALUM PAN	[ ]	LAB-PROVIDED BLANK WATER
[ ]	OTHER:	[ ]	OTHER:	[X]	POTABLE WATER
				[ ]	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[X]		4 DEG C	NA
[ ]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WKP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	21	42	63
TEMP (C)	19.4	18.0	14.1
pH	6.28	6.29	6.31
COND	230	224	220
TURBIDITY	0	0	0
D.O.	5.64	5.40	5.70
Eh	242.4	249.7	223.9

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT:	Westover AFB	JOB NO.	07454-05
DATE	7/4/96		
SAMPLE NUMBER (SIS):	WO MW 201 XXX 96 XX	TIME OF ACTIVITY:	START: 820 END: 840
FIELD QC DATA:	☒ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	WO MW 201 XXX 96 XD

SAMPLE OBSERVATIONS

COLOR:	Orange Flock (1st Volume)	ODOR:	None
GRAIN SIZE:	NA	PID READ:	1.5 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace <10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): NA
B. DEPTH TO WATER(FT): NA
C. HEIGHT OF WATER(FT): NA
D. WELL ID (IN) 2"
E. VOL(GAL): 1.27
F. HISTORICAL WELL DEPTH(FT): 24.2'
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 1.4
I. DIFF WELL AND CASING(FT): -0.25
J. PURGE VOLUME(GAL): 9
K. WELL LOCKED? Yes
L. PROTECTIVE CASING SECURE? Yes
M. CONCRETE APRON INTACT? Yes
N. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☒ PID	☐ BOTTLE	☐ LIQUINOX
☐ RAD METER	☐ SPATULA	☐ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☐ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒	2 x 40 ml	4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	9	18	27
TEMP (C)	12.7	12.2	12.2
pH	6.0	6.03	6.0
COND	140	144	132
TURBIDITY	0	0	0
D.O.	2.37	2.01	2.12
Eh	171.2	63.4	39

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: AF
WO MW 201 XXX 96 XR
QC SAMPLE(S) TAKEN?
ISIS CODE: WO MW 201 XXX 96 XX (MS)
WO MW 201 XXX 96 XX (MSD)

NOTES: Sample collected thru pump that is stuck in the well.

SIGNATURE: [illegible]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE _ OF _

(CIRCLE ONE:) SOIL / GROUNDWATER / OTHER: _____

PROJECT: Westover AFB
JOB NO. 07452-001 DATE 7/9/96
SAMPLE NUMBER (SIZE): WO MW202XXX96XX
TIME OF ACTIVITY: START: 1441 END: 1515
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Light Yellow
ODOR: Slight Fuel
GRAIN SIZE: NA
PID RDG: 0.6 UNITS: ppm
SATURATED? NA
OTHER: Headspace 6.0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 26.84
B. DEPTH TO WATER(FT): 17.25
C. HEIGHT OF WATER(FT): 10
D. WELL ID (IN) 2"
E. VOL(GAL): 24
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.0
I. DIFF WELL AND CASING(FT): -0.25
J. PURGE VOLUME(GAL): 8
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☒ PID	☐ BOTTLE	☒ LIQUINOX
☐ RAD METER	☐ SPATULA	☒ DE-IONIZED WATER
☐ EXPLOSIMETER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☒ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WEP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	8	16	24
TEMP (C)	13.0	12.0	12.0
pH	5.77	5.77	5.77
COND	835	854	857
TURBIDITY	0	0	0
D.O.	0.52	0.16	0.91
Eh	239.6	142.9	74.7

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: WO MW202XXX96XR
QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: Well is very tight, sampled thru pump bailer would not fit down well.

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

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SOIL GROUNDWATER OTHER: _____

PROJECT:	Westover AFB	JOB NO.	07452-057
DATE	7/9/96		
SAMPLE NUMBER (ISIS):	WU MW 203 XXX 96 XX	TIME OF ACTIVITY:	START: 1415 END: 1430
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Cte Clear (1st Quine orange flocks)	ODOR:	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace <10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 26.03
B. DEPTH TO WATER(FT): 17.13
C. HEIGHT OF WATER(FT): 9
D. WELL ID (IN) 2"
E. VOL (GAL): 24
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.05
I. DIFF WELL AND CASING(FT): -0.25
J. PURGE VOLUME(GAL): 8
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	8	16	24
TEMP (C)	13.8	12.4	12.1
pH	595	593	591
COND	98	101	101
TURBIDITY	338	0	0
D.O.	7.60	7.04	6.28
Eh	226.7	247.0	256.8

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:) SOIL / GROUNDWATER / OTHER: _____

PROJECT: Westover AFB
JOB NO. 07452-05 DATE 7/9/96
SAMPLE NUMBER (2-15): WJMW204XXX96XX
TIME OF ACTIVITY: START: 1525 END: 1541
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR: None
GRAIN SIZE: NA
PID RDG: 0.8 UNITS: ppm
SATURATED? NA
OTHER: Headspace 5/U

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 17.40
B. DEPTH TO WATER(FT): 27.14
C. HEIGHT OF WATER(FT): 9
D. WELL ID (IN) 2"
E. VOL(GAL): 24
F. HISTORICAL WELL DEPTH(FT): 24
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): NA
I. DIFF WELL AND CASING(FT): NA
J. PURGE VOLUME(GAL): 8
K. WELL LOCKED? Yes
L. PROTECTIVE CASING SECURE? Yes
M. CONCRETE APRON INTACT? Yes
N. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WRP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	8	16	24
TEMP (C)	14	12.6	12.6
pH	5.83	5.85	5.85
COND	117	132	135
TURBIDITY	0	0	0
D.O.	1.21	1.39	1.31
Eh	159.7	95.3	64.3

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA
QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES: well is bent - hard to use a disposable bailer to bend around well

SIGNATURE: [illegible]
RECEIVED BY:

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FIELD DATA RECORD

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(CIRCLE ONE:) SOIL / GROUNDWATER — OTHER: _____

PROJECT: Westover AFB — JOB NO. 07452.05 — DATE 7/9/96

SAMPLE NUMBER (SIZE): WO MW 205 XX B 96 XX — TIME OF ACTIVITY: START: 1550 END: 1610

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED — DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear — ODOR: none

GRAIN SIZE: NA — PID RDG: 0 — UNITS: ppm

SATURATED: NA — OTHER: Headspace <1.0

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 25.0
B. DEPTH TO WATER(FT): 20.13
C. HEIGHT OF WATER(FT): 5
D. WELL ID (IN) 2"
E. VOL (GAL): 5
F. HISTORICAL WELL DEPTH(FT): 22
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.4
I. DIFF WELL AND CASING(FT): -0.44
J. PURGE VOLUME(GAL): 5
K. WELL LOCKED? Yes
L. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WRP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	5		
TEMP (C)	14.4		
pH	6.09		
COND	231		
TURBIDITY	0		
D.O.	0.48		
ORP	62.4		

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE:

QC SAMPLE(S) TAKEN?
ISIS CODE:

NOTES: well purged dry after 1 volume, let recharge and sampled

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

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SOIL GROUNDWATER OTHER: _____

PROJECT:	Westover AFB	JOB NO.	07452-05
DATE	7/9/96		
SAMPLE NUMBER (ISIS):	WO MW206 XXI96XX	TIME OF ACTIVITY:	START: 900 END: 1020
FIELD QC DATA:	[X] FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	WO MW 206 XXI 96XX

SAMPLE OBSERVATIONS

COLOR:	A clear	ODOR:	Slight Fuel
GRAIN SIZE:	NA	PID RDG:	11 UNITS: ppm
SATURATED?	NA	OTHER:	Heads pace <10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 59.56
B. DEPTH TO WATER(FT): 21.36
C. HEIGHT OF WATER(FT): 38
D. WELL ID (IN) 2"
E. VOL(GAL): 17
F. HISTORICAL WELL DEPTH(FT): 60
G. MEASURED FROM: RISER CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): NA
J. PURGE VOLUME(GAL): 16
J. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
[X]	PID	[ ]	BOTTLE	[X]	LIQUINOX
[ ]	RAD METER	[ ]	SPATULA	[X]	DE-IONIZED WATER
[ ]	EXPLOSIMETER	[ ]	ALUM PAN	[ ]	LAB-PROVIDED BLANK WATER
[ ]	OTHER:	[ ]	OTHER:	[X]	POTABLE WATER
				[ ]	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[X]		4 DEG C	NA
[ ]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WKP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	1		
TEMP (C)	15.6		
pH	6.25		
COND	239		
TURBIDITY	0		
D.O.	1.24		
Eh	13.5		

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES: well purged dry after 1 volume
Let recharge and sampled
LAB Broke Bottles - resampled 7/12/96

SIGNATURE: Michael H. Young
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT:	westover AFB	JOB NO.	07452-05
DATE	7/9/96		
SAMPLE NUMBER (ISIS):	WO MW 208 XX I 96XX	TIME OF ACTIVITY:	START: 1620 END: 1645
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR:	none
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace <10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 62.63
B. DEPTH TO WATER(FT): 24.18
C. HEIGHT OF WATER(FT): 39
D. WELL ID (IN) 2"
E. VOL(GAL): 16
F. HISTORICAL WELL DEPTH(FT): 59
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 3.26
I. DIFF WELL AND CASING(FT): ~0.12
J. PURGE VOLUME(GAL): 16
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	16		
TEMP (C)	15.3		
pH	6.42		
COND	102		
TURBIDITY	0		
D.O.	8.11		
Eh	212.1		

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES: well purged dry after 1 volume, let recharge and sampled

SIGNATURE: [signature]
RECEIVED BY:

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FIELD DATA RECORD

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(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT: Westover AFB
JOB NO. 07452-05 DATE 7/9/96
SAMPLE NUMBER (SIS): WO MW 209 XXX 96XX
TIME OF ACTIVITY: START: 1035 END: 1100
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR: None
GRAIN SIZE: NA
PID READ: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace < 10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24.38
B. DEPTH TO WATER(FT): 18.27
C. HEIGHT OF WATER(FT): 6
D. WELL ID (IN) 2"
E. VOL(GAL): 18
F. HISTORICAL WELL DEPTH(FT): 25
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): FLUSH
I. DIFF WELL AND CASING(FT): -0.44
J. PURGE VOLUME(GAL): 6
K. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DI-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	N.A
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WRP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	6	12	18
TEMP (C)	13.7	13.3	13.1
pH	5.61	5.62	5.57
COND	169	176	172
TURBIDITY	0	0	0
D.O.	3.11	2.08	2.41
Eh	199.7	186.7	199.8

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

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FIELD DATA RECORD

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(CIRCLE ONE:) SOIL / GROUNDWATER / OTHER: _____

PROJECT: Westover AFB
JOB NO. 07452-05 DATE 7/9/96
SAMPLE NUMBER (ID): WO MW 210XX96XX
TIME OF ACTIVITY: START: 1110 END: 1145
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: ~~N/A~~ Clear
ODOR: None
GRAIN SIZE: NA
PID RDG: 0 UNITS: ppm
SATURATED? NA
OTHER: Headspace < 10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 32.18
B. DEPTH TO WATER(FT): 21.21
C. HEIGHT OF WATER(FT): 10
D. WELL ID (IN) 2"
E. VOL(GAL): 30
F. HISTORICAL WELL DEPTH(FT): 32
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.38
J. PURGE VOLUME(GAL): 10
K. WELL LOCKED? No
L. PROTECTIVE CASING SECURE? Yes
M. CONCRETE APRON INTACT? Yes
N. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WRP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	10	20	30
TEMP (C)	14.4	13.7	13.4
pH	5.38	5.36	5.36
COND	111	112	113
TURBIDITY	0	0	0
D.O.	3.82	3.32	NA
Eh	274.2	233.1	234.9

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

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FIELD DATA RECORD (CIRCLE ONE:)

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SOIL GROUNDWATER OTHER: _____

PROJECT:	Westover AFB	JOB NO.	07412-05
DATE	7/9/96		
SAMPLE NUMBER (ISIS):	WOMW212XXI96XX	TIME OF ACTIVITY:	START: 1700 END: 1745
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR:	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED:	NA	OTHER:	Headspace CIU

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 60.54
B. DEPTH TO WATER(FT): 26.17
C. HEIGHT OF WATER(FT): 36
D. WELL ID (IN) 2"
E. VOL(GAL): 45
F. HISTORICAL WELL DEPTH(FT): 60
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): NA
I. DIFF WELL AND CASING(FT): NA
J. PURGE VOLUME(GAL): 15
K. WELL LOCKED? Yes
L. PROTECTIVE CASING SECURE? Yes
M. CONCRETE APRON INTACT? Yes
N. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	15	30	45
TEMP (C)	150	139	14.6
pH	5.94	5.92	5.93
COND	201	194	196
TURBIDITY	66	0	0
D.O.	6.35	6.19	6.72
Eh	243.6	215.1	272.0

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE _ OF _

(CIRCLE ONE:) SOIL / GROUNDWATER — OTHER: _____

PROJECT: Westover AFB — JOB NO. 07452-05 — DATE 7/9/96

SAMPLE NUMBER (SID): WO MW213 XXI96XX — TIME OF ACTIVITY: START: 1830 END: 1900

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED — DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear — ODOR: None

GRAIN SIZE: NA — PID READ: 0 — UNITS: ppm

SATURATED: NA — OTHER: Headspace <10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 63.0
B. DEPTH TO WATER(FT): 22.48
C. HEIGHT OF WATER(FT): 40
D. WELL ID (IN) 2"
E. VOL(GAL): 4.5
F. HISTORICAL WELL DEPTH(FT): 60
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.2
I. DIFF WELL AND CASING(FT): -0.27
J. PURGE VOLUME(GAL): 15
K. WELL LOCKED: Yes
L. PROTECTIVE CASING SECURE: Yes
M. CONCRETE APRON INTACT: Yes
N. WELL MARKINGS READABLE: Yes

EQUIPMENT DOCUMENTATION

MONITORING	SAMPLING	DECONTAMINATION FLUIDS USED:
☒ PID	☐ BOTTLE	☒ LIQUINOX
☐ RAD METER	☐ SPATULA	☒ DE-IONIZED WATER
☐ EC/TDS METER	☐ ALUM PAN	☐ LAB-PROVIDED BLANK WATER
☐ OTHER:	☐ OTHER:	☒ POTABLE WATER
		☐ METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WRP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	15	30	45
TEMP (C)	14.6	13.5	13.7
pH	5.88	5.95	5.91
COND	112	110	124
TURBIDITY	0	0	0
D.O.	7.60	6.00	7.90
Eh	193.6	177.8	203.5

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]

RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT: Westover AFB
JOB NO. 07452-05
DATE 7/9/96
SAMPLE NUMBER (ISIS): WO MW 306 XXX96 XX
TIME OF ACTIVITY: START: 1535 END: 1550
FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR: None
GRAIN SIZE: NA
PID RDG: 0
UNITS: ppm
SATURATED? NA
OTHER: Headspace <10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 29.00
B. DEPTH TO WATER(FT): 22.88
C. HEIGHT OF WATER(FT): 6
D. WELL ID (IN) 2"
E. VOL(GAL): 18
F. HISTORICAL WELL DEPTH(FT): 30
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): Flush
I. DIFF WELL AND CASING(FT): -0.30
J. PURGE VOLUME(GAL): 6
I. WELL LOCKED? NO
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
[X]	PID	[ ]	BOTTLE	[X]	LIQUINOX
[ ]	RAD METER	[ ]	SPATULA	[X]	DE-IONIZED WATER
[ ]	EXPLOSIMETER	[ ]	ALUM PAN	[ ]	LAB-PROVIDED BLANK WATER
[ ]	OTHER:	[ ]	OTHER:	[X]	POTABLE WATER
				[ ]	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
[X]	VOC	USEPA 8240	N	[X]		4 DEG C	NA
[ ]	SVOC	USEPA 8270	N	[ ]		4 DEG C	
[ ]	METALS *	see WKP Table 7	N	[ ]		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	6	12	18
TEMP (C)	12.6	12.0	11.9
pH	6.11	6.13	6.11
COND	88	90	91
TURBIDITY	0	0	0
D.O.	3.16	3.00	3.46
Eh	72.1	70.2	68.0

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)

SOIL GROUNDWATER OTHER: _____

PROJECT:	Westover AFB	JOB NO.	07452-05
DATE	7/10/96		
SAMPLE NUMBER (ISIS):	WO MW XXS XXD 96XX	TIME OF ACTIVITY:	START: 1450 END: 1530
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR:	None
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED?	NA	OTHER:	Hard space <10 ppm

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 67.70
B. DEPTH TO WATER(FT): 27.33
C. HEIGHT OF WATER(FT): 40
D. WELL ID (IN) 2"
E. VOL(GAL): 54
F. HISTORICAL WELL DEPTH(FT): 65
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.4
I. DIFF WELL AND CASING(FT): -0.13
J. PURGE VOLUME(GAL): 18
J. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S)
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	18	36	54
TEMP (C)	15.3	14.7	14.2
pH	6.70	6.73	6.73
COND	222	226	229
TURBIDITY	0	0	0
D.O.	0.60	1.18	1.01
EH	32.1	21.2	-71.2

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)

SOIL — GROUNDWATER (circled) — OTHER: _____

PROJECT:	Westover AFB	JOB NO.	07452-05
DATE	7/11/96		
SAMPLE NUMBER (ISIS):	WO MW 701 XXX96XX	TIME OF ACTIVITY:	START: 1510 END: 1530
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR:	Slight Fuel
GRAIN SIZE:	NA	PID RDG:	248 UNITS: ppm
SATURATED?	NA	OTHER:	Headspace 710

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 33.00
B. DEPTH TO WATER(FT): 19.34
C. HEIGHT OF WATER(FT): 11
D. WELL ID (IN) 2"
E. VOL(GAL): 21
F. HISTORICAL WELL DEPTH(FT): 30
G. MEASURED FROM: RISER / CASING (circled)
H. CASING STICK-UP(FT): 2.70
I. DIFF WELL AND CASING(FT): -0.41"
J. PURGE VOLUME(GAL): 7
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	7	14	21
TEMP (C)	11.6	11.2	11.0
pH	5.78	5.74	5.72
COND	62	63	64
TURBIDITY	0	0	0
D.O.	0.23	0.84	1.04
±H	79.8	50.4	39.6

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES: Well Containerized

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD (CIRCLE ONE:)

PAGE __ OF __

SOIL / GROUNDWATER (circled) OTHER: _____

PROJECT:	Westover AFB	JOB NO.	07452-05
DATE	7/11/96		
SAMPLE NUMBER (ISIS):	WOMW702XXX96XX	TIME OF ACTIVITY:	START: 1440 END: 1500
FIELD QC DATA:	☐ FIELD DUPLICATE COLLECTED	DUPLICATE ID NO.	

SAMPLE OBSERVATIONS

COLOR:	Clear	ODOR:	none
GRAIN SIZE:	NA	PID RDG:	0 UNITS: ppm
SATURATED:	NA	OTHER:	Headspace <10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 24
B. DEPTH TO WATER(FT): 18.45
C. HEIGHT OF WATER(FT): 6
D. WELL ID (IN) 2"
E. VOL(GAL): 15
F. HISTORICAL WELL DEPTH(FT): 22
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.0
I. DIFF WELL AND CASING(FT): ~0.20
J. PURGE VOLUME(GAL): 5
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	5	10	15
TEMP (C)	13.1	11.8	1.6
pH	6.53	5.92	5.88
COND	54	59	59
TURBIDITY	404	261	0
D.O.	8.98	8.57	8.02
ΣH	167.5	202.6	214.5

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER

OTHER: _____

PROJECT: Westover AFB
JOB NO. 07452-05
DATE 7/11/96
SAMPLE NUMBER (ISIS): WO MW 704 XXY 96XX
TIME OF ACTIVITY: START: 1615 END: 1630
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Light Yellow
ODOR: Fuel
GRAIN SIZE: NA
PID RDG: PID Down
UNITS:
SATURATED? NA
OTHER: NA

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 27.00
B. DEPTH TO WATER(FT): 24.16
C. HEIGHT OF WATER(FT): 3
D. WELL ID (IN) 2"
E. VOL(GAL): 9
F. HISTORICAL WELL DEPTH(FT): 27
G. MEASURED FROM: RISER / CASING
H. CASING STICK-UP(FT): 2.3
I. DIFF WELL AND CASING(FT): -0.20
J. PURGE VOLUME(GAL): 3
I. WELL LOCKED? Yes
K. PROTECTIVE CASING SECURE? Yes
L. CONCRETE APRON INTACT? Yes
M. WELL MARKINGS READABLE? Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		4 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		4 DEG C	
☐	METALS *	see WKP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	13.0	12.6	12.6
pH	5.89	5.85	5.86
COND	145	146	136
TURBIDITY	0	0	0
D.O.	0.95	0.71	1.18
¢H	58.4	44.6	42.6

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA

QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES: Well Containerized - Fuel Sheen on Purge Water

SIGNATURE: [signature]
RECEIVED BY:

ABB ENVIRONMENTAL SERVICES
FIELD DATA RECORD

PAGE __ OF __

(CIRCLE ONE:)
SOIL
GROUNDWATER
OTHER: _____

PROJECT: Westover AFB
JOB NO. 07452-05
DATE 7/11/96
SAMPLE NUMBER (SID): WO MW 707 XX 96 XX
TIME OF ACTIVITY: START: 1641 END: 1700
FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID NO.

SAMPLE OBSERVATIONS

COLOR: Clear
ODOR: None
GRAIN SIZE: NA
PID READ: 0
UNITS: ppm
SATURATED: NA
OTHER: Headspace < 10

WATER LEVEL/WELL DATA

A. WELL DEPTH(FT): 29.00
B. DEPTH TO WATER(FT): 22.81
C. HEIGHT OF WATER(FT): 6
D. WELL ID (IN) 2"
E. VOL(GAL): 9
F. HISTORICAL WELL DEPTH(FT): 27
G. MEASURED FROM: (RISER) / CASING
H. CASING STICK-UP(FT): 2.2
I. DIFF WELL AND CASING(FT): -0.21
J. PURGE VOLUME(GAL): 3
K. WELL LOCKED: Yes
L. PROTECTIVE CASING SECURE: Yes
M. CONCRETE APRON INTACT: Yes
N. WELL MARKINGS READABLE: Yes

EQUIPMENT DOCUMENTATION

MONITORING		SAMPLING		DECONTAMINATION FLUIDS USED:	
☒	PID	☐	BOTTLE	☒	LIQUINOX
☐	RAD METER	☐	SPATULA	☒	DE-IONIZED WATER
☐	EXPLOSIMETER	☐	ALUM PAN	☐	LAB-PROVIDED BLANK WATER
☐	OTHER:	☐	OTHER:	☒	POTABLE WATER
				☐	METHANOL

ANALYTICAL PARAMETERS

	TYPE	METHOD	FILTERED?	COLLECTED?/	VOLUME	PRESERVED?	LABEL NO(S).
☒	VOC	USEPA 8240	N	☒		< 0 DEG C	NA
☐	SVOC	USEPA 8270	N	☐		< 0 DEG C	
☐	METALS *	see WRP Table 7	N	☐		HNO3	

* Priority Pollutant Metals (13)

PURGE DATA

	FIRST VOLUME	SECOND VOLUME	THIRD VOLUME
VOLUME	3	6	9
TEMP (C)	12.0	11.3	10.9
pH	5.04	5.03	5.05
COND	57	57	58
TURBIDITY	0	0	0
D.O.	3.22	3.11	2.63
Eh	139.8	140.3	144.6

QA/QC DATA

QA SAMPLE TAKEN?
ISIS CODE: NA
QC SAMPLE(S) TAKEN?
ISIS CODE: NA

NOTES:

SIGNATURE: [signature]
RECEIVED BY:

B-4 WATER LEVEL DATA SHEETS

WATER LEVEL DATA SHEET

ABB
ABB Environmental Services, Inc.

Personnel M. Lounsbury

Time In NA

Time Out NA

Date 7/8/96 - 7/15/96

Location NA

Client Westover RAM Investigation

Job Number 9904-02

Weather Sunny, 80-90°

Recent Weather well above average rainfall

Sheet # 1 of 3

WELL NO.	TIME	DEPTH TO WATER	ELEVATION	REFERENCE PT (TOC, TOR)	GROUNDWATER ELEVATION	REMARKS
MW-101	NA	26.69	NA	TOR	NA	
MW-102		28.44				
MW-201		NA				pump in well
MW-202		17.25				
MW-203		17.13				
MW-204		17.90				
MW-205B		20.13				
MW-206		NA				Destroyed
MW-206I		21.36				
MW-208		NA				
MW-208I		24.18				
MW-209		18.27				
MW-210		21.21				
MW-211		NA				
MW-212I		26.17				
MW-213I		22.48				
MW-30		24.30				
MW-215		17.23				
MW-216		17.00				
MW-217		16.78				
MW-301		25.29				
MW-302		24.59				
MW-303		NA				Lock Frozen
MW-304		24.15				
MW-305		25.15				
MW-305D		NA see note				Lock Frozen

9603030D(b)

WATER LEVEL DATA SHEET

ABB
ABB Environmental Services, Inc.

Personnel M. Lounsbury

Time In NA

Time Out NA

Date 7/8/96 - 7/15/96
Location NA
Client Westover RAM Investigation
Job Number 9904-02
Weather Sunny 80-90°
Recent Weather well above average rainfall
Sheet # 2 of 3

WELL NO.	TIME	DEPTH TO WATER	ELEVATION	REFERENCE PT (TOC, TOR)	GROUNDWATER ELEVATION	REMARKS
MW-307	NA	18.14	NA	TOR	NA	
MW-401		19.72				
MW-402		19.37				
MW-403		19.50				
MW-404		20.40				
MW-405		17.73				
MW-406		20.19				
MW-406I		19.94				
MW-407I		20.01				
MW-409		NA				Conduit open
MW-410		NA				Conduit open
MW-501		16.75				
MW-502		NA				
MW-503		15.61				
MW-504		18.15				
MW-505		16.94				
MW-506		17.03				
MW-506I		17.66				
MW-507		18.47				
MW-508		18.73				
MW-510I		20.64				
MW-601		19.90				
MW-701		~~24.11~~ = 19.34				
MW-702		18.45				
MW-704		24.19				
MW-707		22.87				

9603030D(b)

WATER LEVEL DATA SHEET

ABB
ABB Environmental Services, Inc.

Personnel M. Lounsbury

Time In NA

Time Out NA

Date 7/3/96 - 7/11/96

Location NA

Client Westover RAM Investigation

Job Number 9904-02

Weather Sunny 80-90°

Recent Weather well above average Rainfall

Sheet # 3 of 3

WELL NO.	TIME	DEPTH TO WATER	ELEVATION	REFERENCE PT (TOC, TOR)	GROUNDWATER ELEVATION	REMARKS
MW-708	~~24.55~~ NA	24.15	NA	TOR	NA	
MW-709		24.10				0.02' of Product
MW-710		21.50				
MW-711		23.16				
MW-712		24.67				
MW-713		23.81				
MW-714		23.94				
MW-715		25.13				
MW-716		26.62				
MW-306		22.55				
MW-50		27.33				

9603030D(b)

B-5 SAMPLE TRACKING FORMS

SAMPLE TRACKING FORM

FOR PRIMARY ANALYTICAL LABORATORY SAMPLES ONLY

SITE NAME: WESTOVER AFB

JOB NO. : 7452-05

COMPLETED BY: M. LOUNSBURY

DATE : 07/17/96, 07/18/96

DATE SAMPLED	DATE SHIPPED	SAMPLER INITIALS	SAMPLE MATRIX	PRIMARY LABORATORY: KATAHDIN ANALYTICAL SERVICES, INC			ANALYSIS REQUESTED	
				SAMPLE NUMBER	ASSOCIATED RINSATE	ASSOCIATED TRIP BLANK	VOCs	SVOCs
07/09/96	07/09/96	ML	WATER	-	-	WOBTXX1XXX96XX	X	
07/09/96	07/09/96	ML	WATER	-	WOBSXX1XXX96XX	WOBTXX1XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW201XXX96XX	WOBSXX1XXX96XX	WOBTXX1XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW201XXX96XD	WOBSXX1XXX96XX	WOBTXX1XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW201XXX96MS	WOBSXX1XXX96XX	WOBTXX1XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW201XXX96MD	WOBSXX1XXX96XX	WOBTXX1XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW202XXX96XX	WOBSXX1XXX96XX WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW203XXX96XX	WOBSXX1XXX96XX WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW204XXX96XX	WOBSXX1XXX96XX WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW205BXX96XX	WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW206XXI96XX	WOBSXX1XXX96XX WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW206XXI96XD	WOBSXX2XXX96XX	WOBTX12XXX96XX	X	

SAMPLE TRACKING FORM

FOR PRIMARY ANALYTICAL LABORATORY SAMPLES ONLY

SITE NAME: WESTOVER AFB

JOB NO. : 7452-05

COMPLETED BY: M. LOUNSBURY

DATE : 07/17/96, 07/18/96

DATE SAMPLED	DATE SHIPPED	SAMPLER INITIALS	SAMPLE MATRIX	PRIMARY LABORATORY: KATAHDIN ANALYTICAL SERVICES, INC			ANALYSIS REQUESTED	
				SAMPLE NUMBER	ASSOCIATED RINSATE	ASSOCIATED TRIP BLANK	VOCs	SVOCs
07/09/96	07/09/96	ML	WATER	WOMW208XXI96XX	WOBSXX1XXX96XX WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW209XXX96XX	WOBSXX1XXX96XX	WOBTXX1XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW210XXX96XX	WOBSXX1XXX96XX	WOBTXX1XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW212XXI96XX	WOBSXX1XXX96XX WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMW213XXI96XX	WOBSXX1XXX96XX WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/09/96	07/09/96	ML	WATER	WOMWXX2XXD96XX	WOBSXX1XXX96XX WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/10/96	07/10/96	ML	WATER	WOMW306XXX96XX	WOBSXX2XXX96XX WOBSXX3XXX96XX	WOBTX12XXX96XX	X	
07/10/96	07/10/96	ML	WATER	WOMWXX5XXD96XX	WOBSXX2XXX96XX	WOBTX12XXX96XX	X	
07/11/96	07/11/96	ML	WATER	WOMW701XXX96XX	WOBSXX2XXX96XX WOBSXX3XXX96XX	WOBTX12XXX96XX	X	
07/11/96	07/11/96	ML	WATER	WOMW702XXX96XX	WOBSXX2XXX96XX WOBSXX3XXX96XX	WOBTX12XXX96XX	X	
07/11/96	07/11/96	ML	WATER	WOMW704XXX96XX	WOBSXX2XXX96XX WOBSXX3XXX96XX	WOBTX12XXX96XX	X	
07/11/96	07/11/96	ML	WATER	WOMW707XXX96XX	WOBSXX2XXX96XX WOBSXX3XXX96XX	WOBTX12XXX96XX	X	

B-6 LABORATORY ANALYTICAL DATA

MEMORANDUM

To: Mark Seelen

From: Cliff Colby

Date: September 17, 1996

Re: Validation: USACE-NED Westover AFB
Project No.: 09904-03

Review is complete for the data packages generated by Katahdin Analytical Services concerning the groundwater samples collected during the 1996 Round II Westover AFB groundwater monitoring field program. Data was validated using United States Environmental Protection Agency (USEPA) Region I guidelines and the scope of work for the completion of RAO statements and RAM plans at the former Westover AFB, Chicopee, Massachusetts.

Samples were reviewed for holding time, field and laboratory blank contamination, surrogate recovery, internal standard recovery, laboratory control sample (LCS) results, and matrix spike/matrix spike duplicate (MS/MSD) results. Samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOC). The data tables referred to in this memo consist of the following.

Table 1: Laboratory Report of Analysis
Table 2: Validation / Summary Table

The following subsections summarize the qualifications/edits that have been detected during validation. For organics analyses, compound results below the Contact Required Quantitation Limit (CRQL) were flagged with a "J" by the laboratory on Table 1. These results are considered estimated and flagged with a "J" on Table 2.

VOC Analyses - Qualifications/Edits

Due to trip, equipment or laboratory method blank contamination, methylene chloride, acetone, 1,1-dichloroethene, 2-butanone, benzene, trichloroethene, 4-methyl-2-pentanone, 2-hexanone, tetrachloroethene, toluene, ethyl benzene, xylenes, and 1,1,2,2-tetrachloroethane were qualified as non-detect in associated samples where the results were below the calculated blank action level.

Action levels for common laboratory contaminants in blanks are equal to ten times their concentrations. Five times for all other contaminants. Associated sample results below this action level are qualified as non-detected.

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOMW215XXX96XX	WOMW216XXX96XX	WOMW217XXX96XD	WOMW217XXX96XX	WOMW714XXX96XX	WOMW713XXX96XX	WOMW716XXX96XX	WOMW716XXX96XX
LAB NUMBER:		WM1469-1	WM1469-2	WM1469-3	WM1469-4	WM1483-6	WM1483-7	WM1483-8	WM1483-8 D
DATE SAMPLED:		07/09/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96
DATE ANALYZED:		07/16/96	07/16/96	07/16/96	07/16/96	07/16/96	07/16/96	07/15/96	07/16/96
ANALYTE	RL								
Chloromethane	2.0	40 U	100 U	20 U	20 U	19	2.0 U	2.0 U	4.0 U
Bromomethane	2.0	40 U	100 U	20 U	20 U	2.0 U	2.0 U	2.0 U	4.0 U
Vinyl Chloride	2.0	40 U	100 U	20 U	20 U	2.0	2.0 U	2.0 U	4.0 U
Chloroethane	2.0	40 U	100 U	20 U	20 U	2.0	2.0 U	2.0 U	4.0 U
Methylene Chloride	1.0	30 B	240 B	47 B	44 B	2.0 B	2.0 B	2.0 B	9.0 B
Acetone	5.0	100 U	250 U	50 U	50 U	12	5.0 U	15	10.0 U
Carbon Disulfide	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
1,1-Dichloroethene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
1,1-Dichloroethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
Cis-1,2-Dichloroethene	2.0	40 U	100 U	20 U	20 U	2.0 U	2.0 U	2.0 U	4.0 U
Trans-1,2-Dichloroethene	2.0	40 U	100 U	20 U	20 U	2.0 U	2.0 U	2.0 U	4.0 U
Chloroform	1.0	20 U	50 U	10 U	10 U	5.0	1.0 U	4.0	6.0
1,2-Dichloroethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
2-Butanone	5.0	100 U	460	130	50 U	11	16	5.0 U	10.0 U
1,1,1-Trichloroethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
Carbon Tetrachloride	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
Bromodichloromethane	1.0	20 U	50 U	10 U	10 U	0.9 J	1.0 U	1.0 U	2.0 U
1,2-Dichloropropane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
Cis-1,3-Dichloropropene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
Trichloroethene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
Dibromochloromethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
1,1,2-Trichloroethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	0.5 J	2.0 U
Benzene	1.0	33	37 J	10 U	10 U	8.0	1.0 U	2.0	3.0
Trans-1,3-Dichloropropene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
Bromoform	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
4-Methyl-2-Pentanone	3.0	60 U	150 U	30 U	30 U	3.0 U	3.0 U	3.0 U	6.0 U
2-Hexanone	4.0	80 U	200 U	40 U	40 U	4.0 U	4.0 U	4.0 U	8.0 U
Tetrachloroethene	1.0	20 U	50 U	10 U	10 U	0.8 J	1.0 U	1.0 U	1.0 J
1,1,2,2-Tetrachloroethane	1.0	20 U	50 U	10 U	10 U	1.0	1.0 U	1.0 U	2.0 U
Toluene	1.0	1700	5800	250	350	14	1.0 J	10	21
Chlorobenzene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
Ethylbenzene	1.0	720	1600	340	400	26	10	10	300
Styrene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	2.0 U
Total Xylenes	1.0	3900	8300	1900	2100	63	4.0	240 E	950
Dilution Factor:		20.0	50.0	10.0	10.0	1.0	1.0	1.0	2.0
Associated Method Blank:		VBLKQ16B	VBLKQ15C	VBLKQ15C	VBLKQ15C	VBLKQ15C	VBLKQ15C	VBLKQ15A	VBLKQ15C
Associated Equipment Blank:		WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX
Associated Field Blank:		WOBTXX4XXX96XX	WOBTXX4XXX96XX	WOBTXX4XXX96XX	WOBTXX4XXX96XX	WOBTXX6XXX96XX	WOBTXX6XXX96XX	WOBTXX6XXX96XX	WOBTXX6XXX96XX

Box Number: 9904-02

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOMW708XXX96XX	WOMW710XXX96XX	WOMW710XXX96XX	WOMW709XXX96XX	WOMW712XXX96XX	WOMW711XXX96XX	WOMW711XXX96XD	WOMW715XXX96XX
LAB NUMBER:		WM1484-1	WM1484-2	WM1484-2 D	WM1484-4	WM1484-6	WM1524-3	WM1524-4	WM1524-5
DATE SAMPLED:		07/11/96	07/11/96	07/11/96	07/11/96	07/11/96	07/17/96	07/17/96	07/17/96
DATE ANALYZED:		07/17/96	07/16/96	07/17/96	07/18/96	07/17/96	07/24/96	07/24/96	07/24/96
ANALYTE	RL								
Chloromethane	2.0	20.0 U	40 U	100 U	100 U	100 U	10.0 U	20.0 U	2.0 U
Bromomethane	2.0	20.0 U	40 U	100 U	100 U	100 U	10.0 U	20.0 U	2.0 U
Vinyl Chloride	2.0	20.0 U	40 U	100 U	100 U	100 U	10.0 U	20.0 U	2.0 U
Chloroethane	2.0	20.0 U	40 U	100 U	100 U	100 U	10.0 U	20.0 U	2.0 U
Methylene Chloride	1.0	25 B	33 B	81 B	110 B	90 B	16 B	16 B	0.7 JB
Acetone	5.0	50.0 U	100 U	250 U	160 J	250 U	9.0 J	18 J	2.0 J
Carbon Disulfide	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
1,1-Dichloroethene	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
1,1-Dichloroethane	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Cis-1,2-Dichloroethene	2.0	20.0 U	40 U	100 U	100 U	100 U	10.0 U	20.0 U	2.0 U
Trans-1,2-Dichloroethene	2.0	20.0 U	40 U	100 U	100 U	100 U	10.0 U	20.0 U	2.0 U
Chloroform	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
1,2-Dichloroethane	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
2-Butanone	5.0	50.0 U	100 U	250 U	200 JB	250 U	18 JB	36 JB	4.0 JB
1,1,1-Trichloroethane	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Carbon Tetrachloride	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Bromodichloromethane	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
1,2-Dichloropropane	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Cis-1,3-Dichloropropene	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Trichloroethene	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	0.6 J
Dibromochloromethane	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
1,1,2-Trichloroethane	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Benzene	1.0	12	1000	1300	2000	50 U	5.0 U	10.0 U	1.0 U
Trans-1,3-Dichloropropene	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Bromoform	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
4-Methyl-2-Pentanone	3.0	30.0 U	60 U	150 U	150 U	150 U	15.0 U	30.0 U	3.0 U
2-Hexanone	4.0	40.0 U	80 U	200 U	200 U	200 U	20.0 U	40.0 U	4.0 U
Tetrachloroethene	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	0.6 J
1,1,2,2-Tetrachloroethane	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Toluene	1.0	2000	7400 E	9900	8500	190	13	26	1.0 U
Chlorobenzene	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Ethylbenzene	1.0	1300	1200	1500	1400	1000	300	510	0.6 J
Styrene	1.0	10.0 U	20 U	50 U	50 U	50 U	5.0 U	10.0 U	1.0 U
Total Xylenes	1.0	5400	4700	5800	6000	4900	820	1700	2.0
Dilution Factor:		10.0	20.0	50.0	50.0	50.0	5.0	10.0	1.0
Associated Method Blank:		VBLKQ17B	VBLKQ16B	VBLK04	VBLKF18A	VBLKQ17B	VBLKF24A	VBLKF24A	VBLKF24A
Associated Equipment Blank:		WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX
Associated Field Blank:		WOBTX10XXX96XX	WOBTX10XXX96XX	WOBTX10XXX96XX	WOBTX10XXX96XX	WOBTX10XXX96XX	WOBTXX8XXX96XX	WOBTXX8XXX96XX	WOBTXX8XXX96XX

Box Number: 9904-02

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOBTXX4XXX96XX	WOBSXX3XXX96XX	WOBTXX6XXX96XX	WOBSXX4XXX96XX	WOBTX10XXX96XX	WOBTXX8XXX96XX
LAB NUMBER:		WM1469-6	WM1483-4	WM1483-10	WM1484-3	WM1484-11	WM1524-1
DATE SAMPLED:		07/10/96	07/10/96	07/11/96	07/12/96	07/12/96	07/17/96
DATE ANALYZED:		07/15/96	07/16/96	07/15/96	07/17/96	07/18/96	07/23/96
ANALYTE	RL						
Chloromethane	2.0	2.0 U	25	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	1.0	3.0 B	3.0 B	0.9 JB	1.0 B	2.0 B	2.0
Acetone	5.0	7.0	4.0 J	5.0	5.0 U	5.0 U	5.0 U
Carbon Disulfide	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,2-Dichloroethene	2.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trans-1,2-Dichloroethene	2.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	5.0	6.0	5.0	5.0 U	5.0 U	5.0 U	4.0 J
1,1,1-Trichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,3-Dichloropropene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1.0	1.0 U	11	1.0 U	9.0	1.0 U	1.0 U
Trans-1,3-Dichloropropene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	3.0	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
2-Hexanone	4.0	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Tetrachloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0	1.0 U	110	0.5 J	71	2.0	1.0 U
Chlorobenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0	0.6 J	22	0.8 J	14	1.0 J	1.0 U
Styrene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	1.0	0.8 J	120	0.6 J	79	1.0 J	1.0 U
Dilution Factor:		1.0	1.0	1.0	1.0	1.0	1.0
Associated Method Blank:		-	-	-	-	-	-
Associated Equipment Blank:		-	-	-	-	-	-
Associated Field Blank:		-	-	-	-	-	-

Box Number: 9904-02B

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOMW201XXX96XX	WOMW201XXX96XX	WOMW201XXX96XD	WOMW210XXX96XX	WOMW202XXX96XX	WOMW202XXX96XX	WOMW203XXX96XX	WOMW204XXX96XX
LAB NUMBER:		WM1460-1	WM1460-1 D	WM1460-3	WM1460-6	WM1485-1	WM1485-1 D	WM1485-2	WM1485-3
DATE SAMPLED:		07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96
DATE ANALYZED:		07/12/96	07/16/96	07/12/96	07/16/96	07/17/96	07/17/96	07/18/96	07/17/96
ANALYTE	RL								
Chloromethane	2.0	2.0 U	10 U	2.0 U	2.0 U	40 U	100 U	2.0 U	2.0 U
Bromomethane	2.0	2.0 U	10 U	2.0 U	2.0 U	40 U	100 U	2.0 U	2.0 U
Vinyl Chloride	2.0	2.0 U	10 U	2.0 U	2.0 U	40 U	100 U	2.0 U	2.0 U
Chloroethane	2.0	2.0 U	10 U	2.0 U	2.0 U	40 U	100 U	2.0 U	2.0 U
Methylene Chloride	1.0	2.0 B	13 B	2.0 B	1.0 B	28 B	87 B	2.0 B	1.0 U
Acetone	5.0	8.0	15 J	7.0	3.0 J	100 U	250 U	3.0 J	5.0 U
Carbon Disulfide	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Cis-1,2-Dichloroethene	2.0	2.0 U	10 U	2.0 U	2.0 U	40 U	100 U	2.0 U	2.0 U
Trans-1,2-Dichloroethene	2.0	2.0 U	10 U	2.0 U	2.0 U	40 U	100 U	2.0 U	2.0 U
Chloroform	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
2-Butanone	5.0	12	20 J	13	5.0 U	100 U	250 U	3.0 JB	5.0 U
1,1,1-Trichloroethane	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Bromodichloromethane	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Cis-1,3-Dichloropropene	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Trichloroethene	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Dibromochloromethane	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Benzene	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	2.0
Trans-1,3-Dichloropropene	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Bromoform	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	3.0	3.0 U	15 U	3.0 U	3.0 U	60 U	150 U	3.0 U	3.0 U
2-Hexanone	4.0	4.0 U	20 U	4.0 U	4.0 U	80 U	200 U	4.0 U	4.0 U
Tetrachloroethene	1.0	0.7 J	5.0 U	1.0 J	1.0 U	20 U	50 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Toluene	1.0	190	140	150	0.8 J	4500 E	4100	1.0 U	85
Chlorobenzene	1.0	1.0 U	5.0 U	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Ethylbenzene	1.0	110	88	100	1.0	1200	1100	1.0 U	38
Styrene	1.0	6.0	5.0	1.0 U	1.0 U	20 U	50 U	1.0 U	1.0 U
Total Xylenes	1.0	550	430	490	3.0	5900	5400	0.6 JB	200
Dilution Factor:		1.0	5.0	1.0	1.0	20.0	50.0	1.0	1.0
Associated Method Blank:		VBLKQ12B	VBLKQ16A	VBLKQ12B	VBLKQ16A	VBLKQ17A	VBLKQ17B	VBLKF18A	VBLKQ16B
Associated Equipment Blank:		WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX
Associated Field Blank:		WOBTXX1XXX96XX	WOBTXX1XXX96XX	WOBTXX1XXX96XX	WOBTXX1XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX

Box Number: 9904-03

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOMW205BXXX96XX	WOMW206XXI96XX	WOMW206XXI96XD	WOMW208XXI96XX	WOMW212XXI96XX	WOMW213XXI96XX	WOMWXX2XXD96XX	WOMWXX5XXD96XX
LAB NUMBER:		WM1485-4	WM1485-5	WM1485-6	WM1485-7	WM1485-8	WM1485-9	WM1485-10	WM1485-11
DATE SAMPLED:		07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/10/96
DATE ANALYZED:		07/17/96	07/17/96	07/17/96	07/17/96	07/17/96	07/18/96	07/18/96	07/18/96
ANALYTE	RL								
Chloromethane	2.0	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	2.0	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	2.0	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	1.0	0.8 JB	9.0 B	7.0 B	1.0 B	1.0 B	2.0 B	1.0 B	2.0 B
Acetone	5.0	10	25 U	25 U	5.0 U	5.0 U	4.0 J	5.0 U	5.0 U
Carbon Disulfide	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,2-Dichloroethene	2.0	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trans-1,2-Dichloroethene	2.0	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	5.0	5.0 U	25 U	25 U	5.0 U	5.0 U	5.0 JB	5.0 U	5.0 U
1,1,1-Trichloroethane	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,3-Dichloropropene	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0
Dibromochloromethane	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1.0	3.0	23	26	58	1.0 U	7.0	7.0	2.0
Trans-1,3-Dichloropropene	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	3.0	3.0 U	15 U	15 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
2-Hexanone	4.0	4.0 U	20 U	20 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Tetrachloroethene	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0	8.0	0.6 J
1,1,2,2-Tetrachloroethane	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0	18	91	120	8.0	3.0	1.0 U	2.0	14
Chlorobenzene	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0	4.0	560	670	37	1.0	1.0 U	1.0	210 E
Styrene	1.0	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	1.0	13	660	820	43	5.0	1.0 U	4.0	150
Dilution Factor:		1.0	5.0	5.0	1.0	1.0	1.0	1.0	1.0
Associated Method Blank:		VBLKQ17A	VBLKQ17B	VBLKQ17A	VBLKQ17A	VBLKQ17A	VBLKF18A	VBLKQ17B	VBLKQ17B
Associated Equipment Blank:		WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX
Associated Field Blank:		WOBTXX1XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX

Box Number: 9904-03

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	WOMWXX5XXD96XX	WOMW306XXX96XX	WOMW701XXX96XX	WOMW702XXX96XX	WOMW704XXX96XX	WOMW707XXX96XX	WOMW209XXX96XX
LAB NUMBER:	WM1485-11 D	WM1485-12	WM1485-13	WM1485-14	WM1485-15	WM1485-16	WM1485-18
DATE SAMPLED:	07/10/96	07/10/96	07/11/96	07/11/96	07/11/96	07/11/96	07/12/96
DATE ANALYZED:	07/19/96	07/19/96	07/19/96	07/19/96	07/19/96	07/19/96	07/19/96
ANALYTE / RL							
Chloromethane 2.0	4.0 U	2.0 U	20 U	2.0 U	20 U	2.0 U	2.0 U
Bromomethane 2.0	4.0 U	2.0 U	20 U	2.0 U	20 U	2.0 U	2.0 U
Vinyl Chloride 2.0	4.0 U	2.0 U	20 U	2.0 U	20 U	2.0 U	2.0 U
Chloroethane 2.0	4.0 U	2.0 U	20 U	2.0 U	20 U	2.0 U	2.0 U
Methylene Chloride 1.0	5.0 B	2.0 B	26 B	2.0 B	21 B	2.0 B	2.0 B
Acetone 5.0	5.0 J	2.0 J	22 J	3.0 J	28 J	6.0	2.0 J
Carbon Disulfide 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
1,1-Dichloroethene 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
1,1-Dichloroethane 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Cis-1,2-Dichloroethene 2.0	4.0 U	2.0 U	20 U	2.0 U	20 U	2.0 U	2.0 U
Trans-1,2-Dichloroethene 2.0	4.0 U	2.0 U	20 U	2.0 U	20 U	2.0 U	2.0 U
Chloroform 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
1,2-Dichloroethane 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
2-Butanone 5.0	8.0 JB	4.0 JB	49 JB	4.0 JB	160 B	6.0 B	3.0 JB
1,1,1-Trichloroethane 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Carbon Tetrachloride 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Bromodichloromethane 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
1,2-Dichloropropane 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Cis-1,3-Dichloropropene 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Trichloroethene 1.0	8.0	1.0 U	10 U	1.0 U	10 U	1.0 U	0.6 J
Dibromochloromethane 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
1,1,2-Trichloroethane 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Benzene 1.0	2.0 U	1.0 U	10 U	1.0 U	94	1.0	15
Trans-1,3-Dichloropropene 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Bromoform 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
4-Methyl-2-Pentanone 3.0	6.0 U	3.0 U	30 U	3.0 U	30 U	1.0 J	3.0 U
2-Hexanone 4.0	8.0 U	4.0 U	40 U	4.0 U	40 U	1.0 J	4.0 U
Tetrachloroethene 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Toluene 1.0	5.0	1.0 U	1800	1.0 U	1600	9.0	0.7 J
Chlorobenzene 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Ethylbenzene 1.0	160	1.0 U	980	1.0 U	850	13	12
Styrene 1.0	2.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U
Total Xylenes 1.0	130	1.0 U	4300	2.0	2900	47	38
Dilution Factor:	2.0	1.0	10.0	1.0	10.0	1.0	1.0
Associated Method Blank:	VBLKF18C	VBLKF18C	VBLKF18C	VBLKF18C	VBLKF18C	VBLKF18C	VBLKF18C
Associated Equipment Blank:	WOBSXX1XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX4XXX96XX
Associated Field Blank:	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX

Box Number: 9904-03

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOBTXX1XXX96XX	WOBSXX1XXX96XX	WOBTX12XXX96XX	WOBSXX3XXX96XX
LAB NUMBER:		WM1460-2	WM1460-7	WM1485-17	WM1485-19
DATE SAMPLED:		07/09/96	07/09/96	07/11/96	07/10/96
DATE ANALYZED:		07/12/96	07/12/96	07/19/96	07/19/96
ANALYTE	RL				
Chloromethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	1.0	3.0 B	2.0 B	3.0 B	2.0 B
Acetone	5.0	5.0 U	5.0 J	6.0	3.0 J
Carbon Disulfide	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0	1.0 U	1.0 U	0.6 J	1.0 U
1,1-Dichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,2-Dichloroethene	2.0	2.0 U	2.0 U	2.0 U	2.0 U
Trans-1,2-Dichloroethene	2.0	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	5.0	5.0 U	5.0 U	6.0 B	4.0 JB
1,1,1-Trichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,3-Dichloropropene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0	1.0 U	1.0 U	0.6 J	1.0 U
Dibromochloromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1.0	1.0 U	1.0 U	1.0 U	10
Trans-1,3-Dichloropropene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	3.0	3.0 U	3.0 U	3.0 U	3.0 U
2-Hexanone	4.0	4.0 U	4.0 U	1.0 J	4.0 U
Tetrachloroethene	1.0	0.9 J	1.0 U	1.6 J	1.0 U
1,1,2,2-Tetrachloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0	0.6 J	1.0 U	0.6 J	90
Chlorobenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0	0.5 J	1.0 U	0.6 J	18
Styrene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	1.0	0.6 J	0.6 J	2.0	91
Dilution Factor:		1.0	1.0	1.0	1.0
Associated Method Blank:		-	-	-	-
Associated Equipment Blank:		-	-	-	-
Associated Field Blank:		-	-	-	-

Box Number: 9904-03B

Table 2
Validation / Summary Table

SAMPLE LOCATION:		WOMW215XXX96XX	WOMW216XXX96XX	WOMW217XXX96XD	WOMW217XXX96XX	WOMW714XXX96XX	WOMW713XXX96XX	WOMW716XXX96XX	WOMW708XXX96XX
LAB NUMBER:		WM1469-1	WM1469-2	WM1469-3	WM1469-4	WM1483-6	WM1483-7	WM1483-8	WM1484-1
DATE SAMPLED:		07/09/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/11/96
DATE ANALYZED:		07/16/96	07/16/96	07/16/96	07/16/96	07/16/96	07/16/96	07/15/96	07/17/96
ANALYTE	RL								
Chloromethane	2.0	40 U	100 U	20 U	20 U	19	2.0 U	2.0 U	20 U
Bromomethane	2.0	40 U	100 U	20 U	20 U	2.0 U	2.0 U	2.0 U	20 U
Vinyl Chloride	2.0	40 U	100 U	20 U	20 U	2.0	2.0 U	2.0 U	20 U
Chloroethane	2.0	40 U	100 U	20 U	20 U	2.0	2.0 U	2.0 U	20 U
Methylene Chloride	1.0	30 U	240 U	47 U	44 U	2.0 U	2.0 U	2.0 U	25 U
Acetone	5.0	100 U	250 U	50 U	50 U	12 U	5.0 U	15 U	50 U
Carbon Disulfide	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
1,1-Dichloroethene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
1,1-Dichloroethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
Cis-1,2-Dichloroethene	2.0	40 U	100 U	20 U	20 U	2.0 U	2.0 U	2.0 U	20 U
Trans-1,2-Dichloroethene	2.0	40 U	100 U	20 U	20 U	2.0 U	2.0 U	2.0 U	20 U
Chloroform	1.0	20 U	50 U	10 U	10 U	4.0	1.0 U	4.0	10 U
1,2-Dichloroethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
2-Butanone	5.0	100 U	460	130	50 U	11 U	16 U	5.0 U	50 U
1,1,1-Trichloroethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
Carbon Tetrachloride	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
Bromodichloromethane	1.0	20 U	50 U	10 U	10 U	0.9 J	1.0 U	1.0 U	10 U
1,2-Dichloropropane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
Cis-1,3-Dichloropropene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
Trichloroethene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
Dibromochloromethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
1,1,2-Trichloroethane	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	0.5 J	10 U
Benzene	1.0	33 U	50 U	10 U	10 U	8.0 U	1.0 U	2.0 U	12 U
Trans-1,3-Dichloropropene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
Bromoform	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
4-Methyl-2-Pentanone	3.0	60 U	150 U	30 U	30 U	3.0 U	3.0 U	3.0 U	30 U
2-Hexanone	4.0	80 U	200 U	40 U	40 U	4.0 U	4.0 U	4.0 U	40 U
Tetrachloroethene	1.0	20 U	50 U	10 U	10 U	0.8 J	1.0 U	1.0 U	10 U
1,1,2,2-Tetrachloroethane	1.0	20 U	50 U	10 U	10 U	1.0	1.0 U	1.0 U	10 U
Toluene	1.0	1700	5800	250 U	350 U	14 U	1.0 UJ	10 U	2000
Chlorobenzene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
Ethylbenzene	1.0	720	1600	340	400	26 U	10 U	10 U	1300
Styrene	1.0	20 U	50 U	10 U	10 U	1.0 U	1.0 U	1.0 U	10 U
Total Xylenes	1.0	3900	8300	1900	2100	63 U	4.0 U	950	5400
Dilution Factor:		20.0	50.0	10.0	10.0	1.0	1.0	1.0	10.0
Associated Method Blank:		VBLKQ16B	VBLKQ15C	VBLKQ15C	VBLKQ15C	VBLKQ15C	VBLKQ15C	VBLKQ15A	VBLKQ17B
Associated Equipment Blank:		WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX4XXX96XX
Associated Field Blank:		WOBTXX4XXX96XX	WOBTXX4XXX96XX	WOBTXX4XXX96XX	WOBTXX4XXX96XX	WOBTXX6XXX96XX	WOBTXX6XXX96XX	WOBTXX6XXX96XX	WOBTX10XXX96XX

Box Number: 9904-02

Table 2
Validation / Summary Table

SAMPLE LOCATION:		WOMW710XXX96XX	WOMW709XXX96XX	WOMW712XXX96XX	WOMW711XXX96XX	WOMW711XXX96XD	WOMW715XXX96XX
LAB NUMBER:		WM1484-2	WM1484-4	WM1484-6	WM1524-3	WM1524-4	WM1524-5
DATE SAMPLED:		07/11/96	07/11/96	07/11/96	07/17/96	07/17/96	07/17/96
DATE ANALYZED:		07/16/96	07/18/96	07/17/96	07/24/96	07/24/96	07/24/96
ANALYTE	RL						
Chloromethane	2.0	40 U	100 U	100 U	10 U	20 U	2.0 U
Bromomethane	2.0	40 U	100 U	100 U	10 U	20 U	2.0 U
Vinyl Chloride	2.0	40 U	100 U	100 U	10 U	20 U	2.0 U
Chloroethane	2.0	40 U	100 U	100 U	10 U	20 U	2.0 U
Methylene Chloride	1.0	33 U	110 U	90 U	16 U	16 U	1.0 U
Acetone	5.0	100 U	160 J	250 U	9.0 J	18 J	2.0 J
Carbon Disulfide	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
1,1-Dichloroethene	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
1,1-Dichloroethane	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Cis-1,2-Dichloroethene	2.0	40 U	100 U	100 U	10 U	20 U	2.0 U
Trans-1,2-Dichloroethene	2.0	40 U	100 U	100 U	10 U	20 U	2.0 U
Chloroform	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
1,2-Dichloroethane	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
2-Butanone	5.0	100 U	200 J	250 U	25 U	50 U	5.0 U
1,1,1-Trichloroethane	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Carbon Tetrachloride	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Bromodichloromethane	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
1,2-Dichloropropane	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Cis-1,3-Dichloropropene	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Trichloroethene	1.0	20 U	50 U	50 U	5.0 U	10 U	0.6 J
Dibromochloromethane	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
1,1,2-Trichloroethane	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Benzene	1.0	1000	2000	50 U	5.0 U	10 U	1.0 U
Trans-1,3-Dichloropropene	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Bromoform	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
4-Methyl-2-Pentanone	3.0	60 U	150 U	150 U	15 U	30 U	3.0 U
2-Hexanone	4.0	80 U	200 U	200 U	20 U	40 U	4.0 U
Tetrachloroethene	1.0	20 U	50 U	50 U	5.0 U	10 U	0.6 J
1,1,2,2-Tetrachloroethane	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Toluene	1.0	9900	8500	190 U	13 U	26 U	1.0 U
Chlorobenzene	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Ethylbenzene	1.0	1200	1400	1000	300	510	1.0 U
Styrene	1.0	20 U	50 U	50 U	5.0 U	10 U	1.0 U
Total Xylenes	1.0	4700	6000	4900	820	1700	2.0 U
Dilution Factor:		20.0	50.0	50.0	5.0	10.0	1.0
Associated Method Blank:		VBLKQ16B	VBLKF18A	VBLKQ17B	VBLKF24A	VBLKF24A	VBLKF24A
Associated Equipment Blank:		WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX	WOBSXX4XXX96XX
Associated Field Blank:		WOBTX10XXX96XX	WOBTX10XXX96XX	WOBTX10XXX96XX	WOBTXX8XXX96XX	WOBTXX8XXX96XX	WOBTXX8XXX96XX

Box Number: 9904-02

Table 2
Validation / Summary Table

SAMPLE LOCATION:	WOMW201XXX96XX	WOMW201XXX96XD	WOMW210XXX96XX	WOMW202XXX96XX	WOMW203XXX96XX	WOMW204XXX96XX	WOMW205BXXX96XX	WOMW206XXI96XX
LAB NUMBER:	WM1460-1	WM1460-3	WM1460-6	WM1485-1	WM1485-2	WM1485-3	WM1485-4	WM1485-5
DATE SAMPLED:	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/09/96
DATE ANALYZED:	07/12/96	07/12/96	07/16/96	07/17/96	07/18/96	07/17/96	07/17/96	07/17/96
ANALYTE / RL								
Chloromethane 2.0	2.0 U	2.0 U	2.0 U	40 U	2.0 U	2.0 U	2.0 U	10 U
Bromomethane 2.0	2.0 U	2.0 U	2.0 U	40 U	2.0 U	2.0 U	2.0 U	10 U
Vinyl Chloride 2.0	2.0 U	2.0 U	2.0 U	40 U	2.0 U	2.0 U	2.0 U	10 U
Chloroethane 2.0	2.0 U	2.0 U	2.0 U	40 U	2.0 U	2.0 U	2.0 U	10 U
Methylene Chloride 1.0	2.0 U	2.0 U	1.0 U	40 U	2.0 U	1.0 U	1.0 U	9.0 U
Acetone 5.0	8.0 U	7.0 U	5.0 U	100 U	5.0 U	5.0 U	10 U	25 U
Carbon Disulfide 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethene 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethane 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Cis-1,2-Dichloroethene 2.0	2.0 U	2.0 U	2.0 U	40 U	2.0 U	2.0 U	2.0 U	10 U
Trans-1,2-Dichloroethene 2.0	2.0 U	2.0 U	2.0 U	40 U	2.0 U	2.0 U	2.0 U	10 U
Chloroform 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloroethane 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
2-Butanone 5.0	12	13	5.0 U	100 U	5.0 U	5.0 U	5.0 U	25 U
1,1,1-Trichloroethane 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Carbon Tetrachloride 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Bromodichloromethane 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloropropane 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Cis-1,3-Dichloropropene 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Trichloroethene 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Dibromochloromethane 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2-Trichloroethane 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Benzene 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	2.0	3.0	23
Trans-1,3-Dichloropropene 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Bromoform 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
4-Methyl-2-Pentanone 3.0	3.0 U	3.0 U	3.0 U	60 U	3.0 U	3.0 U	3.0 U	15 U
2-Hexanone 4.0	4.0 U	4.0 U	4.0 U	80 U	4.0 U	4.0 U	4.0 U	20 U
Tetrachloroethene 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Toluene 1.0	190 J	150 J	1.0 U	4100	1.0 U	85	18	91
Chlorobenzene 1.0	1.0 U	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Ethylbenzene 1.0	110	100	1.0 U	1200	1.0 U	38	4.0	560
Styrene 1.0	6.0	1.0 U	1.0 U	20 U	1.0 U	1.0 U	1.0 U	5.0 U
Total Xylenes 1.0	550	490	3.0 U	5900	0.6 UJ	200	13	660
Dilution Factor:	1.0	1.0	1.0	20.0	1.0	1.0	1.0	5.0
Associated Method Blank:	VBLKQ12B	VBLKQ12B	VBLKQ16A	VBLKQ17A	VBLKF18A	VBLKQ16B	VBLKQ17A	VBLKQ17B
Associated Equipment Blank:	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX
Associated Field Blank:	WOBTXX1XXX96XX	WOBTXX1XXX96XX	WOBTXX1XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTXX1XXX96XX	WOBTX12XXX96XX

Box Number: 9904-03

Table 2
Validation / Summary Table

SAMPLE LOCATION:		WOMW206XXI96XD	WOMW208XXI96XX	WOMW212XXI96XX	WOMW213XXI96XX	WOMWXX2XXD96XX	WOMWXX5XXD96XX	WOMW306XXX96XX	WOMW701XXX96XX
LAB NUMBER:		WM1485-6	WM1485-7	WM1485-8	WM1485-9	WM1485-10	WM1485-11	WM1485-12	WM1485-13
DATE SAMPLED:		07/09/96	07/09/96	07/09/96	07/09/96	07/09/96	07/10/96	07/10/96	07/11/96
DATE ANALYZED:		07/17/96	07/17/96	07/17/96	07/18/96	07/18/96	07/18/96	07/19/96	07/19/96
ANALYTE	RL								
Chloromethane	2.0	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U
Bromomethane	2.0	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U
Vinyl Chloride	2.0	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U
Chloroethane	2.0	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U
Methylene Chloride	1.0	7.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	26 U
Acetone	5.0	25 U	5.0 U	5.0 U	4.0 UJ	5.0 U	5.0 U	5.0 U	50 U
Carbon Disulfide	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,1-Dichloroethene	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,1-Dichloroethane	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Cis-1,2-Dichloroethene	2.0	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U
Trans-1,2-Dichloroethene	2.0	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U
Chloroform	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichloroethane	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
2-Butanone	5.0	25 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	50 U
1,1,1-Trichloroethane	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Carbon Tetrachloride	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Bromodichloromethane	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichloropropane	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Cis-1,3-Dichloropropene	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Trichloroethene	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0	1.0 U	10 U
Dibromochloromethane	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,1,2-Trichloroethane	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Benzene	1.0	26	58	1.0 U	7.0	7.0 U	2.0 U	1.0 U	10 U
Trans-1,3-Dichloropropene	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Bromoform	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
4-Methyl-2-Pentanone	3.0	15 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	30 U
2-Hexanone	4.0	20 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	40 U
Tetrachloroethene	1.0	5.0 U	1.0 U	1.0 U	1.0 U	7.0 U	1.0 U	1.0 U	10 U
1,1,2,2-Tetrachloroethane	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Toluene	1.0	120	8.0	3.0 U	1.0 U	2.0 U	14 U	1.0 U	1800
Chlorobenzene	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Ethylbenzene	1.0	670	37	1.0 U	1.0 U	1.0 U	160	1.0 U	980
Styrene	1.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Total Xylenes	1.0	820	43	5.0	1.0 U	4.0 U	150 U	1.0 U	4300
Dilution Factor:		5.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
Associated Method Blank:		VBLKQ17A	VBLKQ17A	VBLKQ17A	VBLKF18A	VBLKQ17B	VBLKQ17B	VBLKF18C	VBLKF18C
Associated Equipment Blank:		WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX1XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX
Associated Field Blank:		WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX

Box Number: 9904-03

Table 2
Validation / Summary Table

SAMPLE LOCATION:	WOMW702XXX96XX	WOMW704XXX96XX	WOMW707XXX96XX	WOMW209XXX96XX
LAB NUMBER:	WM1485-14	WM1485-15	WM1485-16	WM1485-18
DATE SAMPLED:	07/11/96	07/11/96	07/11/96	07/12/96
DATE ANALYZED:	07/19/96	07/19/96	07/19/96	07/19/96
ANALYTE / RL				
Chloromethane 2.0	2.0 U	20 U	2.0 U	2.0 U
Bromomethane 2.0	2.0 U	20 U	2.0 U	2.0 U
Vinyl Chloride 2.0	2.0 U	20 U	2.0 U	2.0 U
Chloroethane 2.0	2.0 U	20 U	2.0 U	2.0 U
Methylene Chloride 1.0	2.0 U	21 U	2.0 U	2.0 U
Acetone 5.0	5.0 U	50 U	6.0 U	5.0 U
Carbon Disulfide 1.0	1.0 U	10 U	1.0 U	1.0 U
1,1-Dichloroethene 1.0	1.0 U	10 U	1.0 U	1.0 U
1,1-Dichloroethane 1.0	1.0 U	10 U	1.0 U	1.0 U
Cis-1,2-Dichloroethene 2.0	2.0 U	20 U	2.0 U	2.0 U
Trans-1,2-Dichloroethene 2.0	2.0 U	20 U	2.0 U	2.0 U
Chloroform 1.0	1.0 U	10 U	1.0 U	1.0 U
1,2-Dichloroethane 1.0	1.0 U	10 U	1.0 U	1.0 U
2-Butanone 5.0	5.0 U	160	6.0 U	5.0 U
1,1,1-Trichloroethane 1.0	1.0 U	10 U	1.0 U	1.0 U
Carbon Tetrachloride 1.0	1.0 U	10 U	1.0 U	1.0 U
Bromodichloromethane 1.0	1.0 U	10 U	1.0 U	1.0 U
1,2-Dichloropropane 1.0	1.0 U	10 U	1.0 U	1.0 U
Cis-1,3-Dichloropropene 1.0	1.0 U	10 U	1.0 U	1.0 U
Trichloroethene 1.0	1.0 U	10 U	1.0 U	1.0 U
Dibromochloromethane 1.0	1.0 U	10 U	1.0 U	1.0 U
1,1,2-Trichloroethane 1.0	1.0 U	10 U	1.0 U	1.0 U
Benzene 1.0	1.0 U	94	1.0 U	15 U
Trans-1,3-Dichloropropene 1.0	1.0 U	10 U	1.0 U	1.0 U
Bromoform 1.0	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone 3.0	3.0 U	30 U	1.0 UJ	3.0 U
2-Hexanone 4.0	4.0 U	40 U	1.0 J	4.0 U
Tetrachloroethene 1.0	1.0 U	10 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane 1.0	1.0 U	10 U	1.0 U	1.0 U
Toluene 1.0	1.0 U	1600	9.0 U	1.0 U
Chlorobenzene 1.0	1.0 U	10 U	1.0 U	1.0 U
Ethylbenzene 1.0	1.0 U	850	13 U	12 U
Styrene 1.0	1.0 U	10 U	1.0 U	1.0 U
Total Xylenes 1.0	2.0 U	2900	47 U	38 U
Dilution Factor:	1.0	10.0	1.0	1.0
Associated Method Blank:	VBLKF18C	VBLKF18C	VBLKF18C	VBLKF18C
Associated Equipment Blank:	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX4XXX96XX
Associated Field Blank:	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX	WOBTX12XXX96XX

Box Number: 9904-03

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	WOMW711XXX96XX	WOMW711XXX96XX	WOMW711XXX96XD	WOMW715XXX96XX
LAB NUMBER:	WM1483-1	WM1483-1 D	WM1483-3	WM1483-9
DATE SAMPLED:	07/11/96	07/11/96	07/11/96	07/11/96
DATE EXTRACTED:	07/15/96	07/15/96	07/15/96	07/15/96
DATE ANALYZED:	08/30/96	08/30/96	08/30/96	08/30/96
ANALYTE	RL			
Phenol	10	11 U	21 U	10 U	10 U
bis(2-Chloroethyl)ether	10	11 U	21 U	10 U	10 U
2-Chlorophenol	10	11 U	21 U	10 U	10 U
1,3-Dichlorobenzene	10	11 U	21 U	10 U	10 U
1,4-Dichlorobenzene	10	11 U	21 U	10 U	10 U
1,2-Dichlorobenzene	10	11 U	21 U	10 U	10 U
2-Methylphenol	10	11 U	21 U	10 U	10 U
bis(2-Chloroisopropyl) ether	10	11 U	21 U	10 U	10 U
4-Methylphenol	10	11 U	21 U	10 U	10 U
n-Nitroso-dipropylamine	10	11 U	21 U	10 U	10 U
Hexachloroethane	10	11 U	21 U	10 U	10 U
Nitrobenzene	10	11 U	21 U	10 U	10 U
Isophorone	10	11 U	21 U	10 U	10 U
2-Nitrophenol	10	11 U	21 U	10 U	10 U
2,4-Dimethylphenol	10	11 U	21 U	10 U	10 U
bis(2-Chloroethoxy)methane	10	11 U	21 U	10 U	10 U
2,4-Dichlorophenol	10	11 U	21 U	10 U	10 U
1,2,4-Trichlorobenzene	10	11 U	21 U	10 U	10 U
Naphthalene	10	92	89	96	10 U
4-Chloroaniline	10	11 U	21 U	10 U	10 U
Hexachlorobutadiene	10	11 U	21 U	10 U	10 U
4-Chloro-3-methylphenol	10	11 U	21 U	10 U	10 U
2-Methylnaphthalene	10	39	37	42	10 U
Hexachlorocyclopentadiene	10	11 U	21 U	10 U	10 U
2,4,6-Trichlorophenol	10	11 U	21 U	10 U	10 U
2,4,5-Trichlorophenol	25	28 U	53 U	25 U	25 U
2-Chloronaphthalene	10	11 U	21 U	10 U	10 U
2-Nitroaniline	25	28 U	53 U	25 U	25 U
Dimethylphthalate	10	11 U	21 U	10 U	10 U
Acenaphthylene	10	11 U	21 U	10 U	10 U
2,6-Dinitrotoluene	10	11 U	21 U	10 U	10 U

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	WOMW711XXX96XX	WOMW711XXX96XX	WOMW711XXX96XD	WOMW715XXX96XX
LAB NUMBER:	WM1483-1	WM1483-1 D	WM1483-3	WM1483-9
DATE SAMPLED:	07/11/96	07/11/96	07/11/96	07/11/96
DATE EXTRACTED:	07/15/96	07/15/96	07/15/96	07/15/96
DATE ANALYZED:	08/30/96	08/30/96	08/30/96	08/30/96
ANALYTE	RL			
3-Nitroaniline	25	28 U	53 U	25 U	25 U
Acenaphthene	10	11 U	21 U	10 U	10 U
2,4-Dinitrophenol	25	28 U	53 U	25 U	25 U
4-Nitrophenol	25	28 U	53 U	25 U	25 U
Dibenzofuran	10	11 U	21 U	10 U	10 U
2,4-Dinitrotoluene	10	11 U	21 U	10 U	10 U
Diethylphthalate	10	11 U	21 U	10 U	10 U
4-Chlorophenyl phenyl ether	10	11 U	21 U	10 U	10 U
Fluorene	10	11 U	21 U	10 U	10 U
4-Nitroaniline	25	28 U	53 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	28 U	53 U	25 U	25 U
n-Nitrosodiphenylamine	10	11 U	21 U	10 U	10 U
4-Bromophenyl phenyl ether	10	11 U	21 U	10 U	10 U
Hexachlorobenzene	10	11 U	21 U	10 U	10 U
Pentachlorophenol	25	28 U	53 U	25 U	25 U
Phenanthrene	10	11 U	21 U	10 U	10 U
Anthracene	10	11 U	21 U	10 U	10 U
Carbazole	10	11 U	21 U	10 U	10 U
Di-n-butylphthalate	10	11 U	21 U	10 U	10 U
Fluoranthene	10	11 U	21 U	10 U	10 U
Pyrene	10	11 U	21 U	10 U	10 U
Butyl benzylphthalate	10	11 U	21 U	10 U	10 U
3,3'-Dichlorobenzidine	10	11 U	21 U	10 U	10 U
Benzo(a)anthracene	10	11 U	21 U	10 U	10 U
Chrysene	10	11 U	21 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	230 BE	220 B	51 B	10 U
Di-n-octylphthalate	10	11 U	21 U	10 U	10 U
Benzo(b)fluoranthene	10	11 U	21 U	10 U	10 U
Benzo(k)fluoranthene	10	11 U	21 U	10 U	10 U
Benzo(a)pyrene	10	11 U	21 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	11 U	21 U	10 U	10 U
Dibenzo(a,h)anthracene	10	11 U	21 U	10 U	10 U
Benzo(g,h,i)perylene	10	11 U	21 U	10 U	10 U
Dilution Factor:		1.1	2.1	1.0	1.0
Associated Method Blank:		K1146	K1146	K1146	K1146
Associated Equipment Blank:		WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX
Associated Field Blank:		-	-	-	-

Box Number: 9904-02

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOMW215XXX96XX	WOMW215XXX96XX	WOMW216XXX96XX	WOMW216XXX96XX	WOMW217XXX96XD	WOMW217XXX96XX	WOMW714XXX96XX	WOMW714XXX96XX
LAB NUMBER:		WM1469-1	WM1469-1 D	WM1469-2	WM1469-2 D	WM1469-3	WM1469-4	WM1483-6	WM1483-6 R
DATE SAMPLED:		07/09/96	07/09/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96
DATE EXTRACTED:		07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	08/01/96
DATE ANALYZED:		07/24/96	07/25/96	07/25/96	07/25/96	07/24/96	07/25/96	08/01/96	08/07/96
ANALYTE	RL								
Phenol	10	9.0 J	23 U	11 U	21 U	10 U	11 U	10 U	10 U
bis(2-Chloroethyl)ether	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2-Chlorophenol	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
1,3-Dichlorobenzene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
1,4-Dichlorobenzene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
1,2-Dichlorobenzene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2-Methylphenol	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
bis(2-Chloroisopropyl) ether	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
4-Methylphenol	10	130	130	81	88	97	85	10 U	10 U
n-Nitroso-dipropylamine	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Hexachloroethane	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Nitrobenzene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Isophorone	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2-Nitrophenol	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2,4-Dimethylphenol	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
bis(2-Chloroethoxy)methane	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2,4-Dichlorophenol	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
1,2,4-Trichlorobenzene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Naphthalene	10	250 E	260	190 E	220	110	95	29	10 U
4-Chloroaniline	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Hexachlorobutadiene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
4-Chloro-3-methylphenol	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2-Methylnaphthalene	10	100	110	82	94	94	86	16	10 U
Hexachlorocyclopentadiene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2,4,6-Trichlorophenol	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2,4,5-Trichlorophenol	25	28 U	58 U	28 U	53 U	25 U	28 U	25 U	25 U
2-Chloronaphthalene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2-Nitroaniline	25	28 U	58 U	28 U	53 U	25 U	28 U	25 U	25 U
Dimethylphthalate	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Acenaphthylene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
2,6-Dinitrotoluene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOMW215XXX96XX	WOMW215XXX96XX	WOMW216XXX96XX	WOMW216XXX96XX	WOMW217XXX96XD	WOMW217XXX96XX	WOMW714XXX96XX	WOMW714XXX96XX
LAB NUMBER:		WM1469-1	WM1469-1 D	WM1469-2	WM1469-2 D	WM1469-3	WM1469-4	WM1483-6	WM1483-6 R
DATE SAMPLED:		07/09/96	07/09/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96
DATE EXTRACTED:		07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	08/01/96
DATE ANALYZED:		07/24/96	07/25/96	07/25/96	07/25/96	07/24/96	07/25/96	08/01/96	08/07/96
ANALYTE	RL								
3-Nitroaniline	25	28 U	58 U	28 U	53 U	25 U	28 U	25 U	25 U
Acenaphthene	10	11 U	23 U	11 U	21 U	9.0 J	8.0 J	10 U	10 U
2,4-Dinitrophenol	25	28 U	58 U	28 U	53 U	25 U	28 U	25 U	25 U
4-Nitrophenol	25	28 U	58 U	28 U	53 U	25 U	28 U	25 U	25 U
Dibenzofuran	10	11 U	23 U	11 U	21 U	8.0 J	7.0 J	10 U	10 U
2,4-Dinitrotoluene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Diethylphthalate	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
4-Chlorophenyl phenyl ether	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Fluorene	10	11 U	23 U	11 U	21 U	10 J	9.0 J	10 U	10 U
4-Nitroaniline	25	28 U	58 U	28 U	53 U	25 U	28 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	28 U	58 U	28 U	53 U	25 U	28 U	25 U	25 U
n-Nitrosodiphenylamine	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
4-Bromophenyl phenyl ether	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Hexachlorobenzene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Pentachlorophenol	25	28 U	58 U	28 U	53 U	25 U	28 U	25 U	25 U
Phenanthrene	10	11 U	23 U	11 U	21 U	19	19	10 U	10 U
Anthracene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Carbazole	10	11 U	23 U	19	19 J	32	36	10 U	10 U
Di-n-butylphthalate	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Fluoranthene	10	11 U	23 U	11 U	21 U	6.0 J	6.0 J	10 U	10 U
Pyrene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Butyl benzylphthalate	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
3,3'-Dichlorobenzidine	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Benzo(a)anthracene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Chrysene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	58 B	55 B	74 B	83 B	26 B	27 B	16 B	15 B
Di-n-octylphthalate	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Benzo(b)fluoranthene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	8.0 JB
Benzo(k)fluoranthene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Benzo(a)pyrene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	6.0 JB
Indeno(1,2,3-cd)pyrene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Dibenzo(a,h)anthracene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Benzo(g,h,i)perylene	10	11 U	23 U	11 U	21 U	10 U	11 U	10 U	10 U
Dilution Factor:		1.1	2.3	1.1	2.1	1.0	1.1	1.0	1.0
Associated Method Blank:		K0722	K0722	K0722	K0722	K0722	K0722	K0722	K0867
Associated Equipment Blank:		00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX
Associated Field Blank:		-	-	-	-	-	-	-	-

Box Number: 9904-02

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOMW713XXX96XX	WOMW716XXX96XX	WOMW708XXX96XX	WOMW710XXX96XX	WOMW709XXX96XX	WOMW712XXX96XX	WOMW712XXX96XX
LAB NUMBER:		WM1483-7	WM1483-8	WM1484-1	WM1484-2	WM1484-4	WM1484-6	WM1484-6 R
DATE SAMPLED:		07/10/96	07/10/96	07/11/96	07/11/96	07/11/96	07/11/96	07/11/96
DATE EXTRACTED:		07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	08/01/96
DATE ANALYZED:		07/26/96	07/26/96	07/26/96	08/01/96	07/26/96	08/01/96	08/07/96
ANALYTE	RL							
Phenol	10	10 U	10 U	10 U	10 U	10 U	2.0 J	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl) ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
n-Nitroso-dipropylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	6.0 J	10 U	10 U	2.0 J	5.0 J
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	45	120	89	92	140	150
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	73	52	35	36	82	69
Hexachlorocyclopentadiene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:		WOMW713XXX96XX	WOMW716XXX96XX	WOMW708XXX96XX	WOMW710XXX96XX	WOMW709XXX96XX	WOMW712XXX96XX	WOMW712XXX96XX
LAB NUMBER:		WM1483-7	WM1483-8	WM1484-1	WM1484-2	WM1484-4	WM1484-6	WM1484-6 R
DATE SAMPLED:		07/10/96	07/10/96	07/11/96	07/11/96	07/11/96	07/11/96	07/11/96
DATE EXTRACTED:		07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	07/15/96	08/01/96
DATE ANALYZED:		07/26/96	07/26/96	07/26/96	08/01/96	07/26/96	08/01/96	08/07/96
ANALYTE	RL							
3-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
fluorene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U
n-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butyl benzylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	21 B	13 B	8.0 JB	16 B	18 B	8.0 JB	42 B
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	5.0 JB
Benzo(k)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dilution Factor:		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Associated Method Blank:		K0722	K0722	K0722	Z1537	K0722	Z1537	K0867
Associated Equipment Blank:		00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX4XXX96XX	00BSXX4XXX96XX	00BSXX4XXX96XX	00BSXX4XXX96XX	00BSXX4XXX96XX
Associated Field Blank:		-	-	-	-	-	-	-

Box Number: 9904-02

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR FORMER WESTOVER AFB SITES; FILE: 9904-03
AQUEOUS (ug/L)

VOLATILE

	WOMW201XXX96XX	WOMW201XXX96XD	WOMW202XXX96XX	WOMW204XXX96XX
C9H12 Isomer	179 J	121 J	960 J	79 J
Propyl Benzene		8 J		
Pentane			320 J	
Unknown			150 J	20 J
C6H12 Isomer			740 J	
C7H14 Isomer			530 J	
Alkane				14 J

	WOMW206XXI96XX	WOMW206XXI96XD	WOMW208XXI96XX	WOMW212XXI96XX
C9H12 Isomer	703 J	796 J	27 J	
Benzene, Propyl-	44 J			
C10H14 Isomer	30 J			
Unknown		31 J		
Naphthalene			21 J	
C11H10 Isomer				6 J

	WOMW213XXI96XX	WOMWXX5XXD96XX	WOMW306XXX96XX	WOMW701XXX96XX
C12H12 Isomer	158 J			
C8H16 Isomer	7 J			
C9H12 Isomer	10 J	185 J		1460 J
C11H10 Isomer	23 J			
C13H14 Isomer	16 J			
Naphthalene	23 J			590 J
Pentane		17 J		
Alkane		68 J		3450 J
1-Butanol, 2-methyl		66 J		
Benzene, Propyl-		18 J		
C10H14 Isomer		21 J	6 J	
Indane		12 J		
Indan, 1-Methyl		19 J		
Naphthalene, 1-Methyl			13 J	
Heptane				490 J
Octane				550 J
Nonane				1300 J
Unknown				610 J
Decane				1300 J

Table 1
Laboratory Report of Analysis

	SAMPLE LOCATION:	WOBSXX3XXX96XX	WOBSXX4XXX96XX
	LAB NUMBER:	WM1483-4	WM1484-3
	DATE SAMPLED:	07/10/96	07/12/96
	DATE EXTRACTED:	07/15/96	07/15/96
	DATE ANALYZED:	07/25/96	07/26/96
ANALYTE	RL		
3-Nitroaniline	25	28 U	25 U
Acenaphthene	10	11 U	10 U
2,4-Dinitrophenol	25	28 U	25 U
4-Nitrophenol	25	28 U	25 U
Dibenzofuran	10	11 U	10 U
2,4-Dinitrotoluene	10	11 U	10 U
Diethylphthalate	10	11 U	10 U
4-Chlorophenyl phenyl ether	10	11 U	10 U
Fluorene	10	11 U	10 U
4-Nitroaniline	25	28 U	25 U
4,6-Dinitro-2-methylphenol	25	28 U	25 U
n-Nitrosodiphenylamine	10	11 U	10 U
4-Bromophenyl phenyl ether	10	11 U	10 U
Hexachlorobenzene	10	11 U	10 U
Pentachlorophenol	25	28 U	25 U
Phenanthrene	10	11 U	10 U
Anthracene	10	11 U	10 U
Carbazole	10	11 U	10 U
Di-n-butylphthalate	10	11 U	10 U
Fluoranthene	10	11 U	10 U
Pyrene	10	11 U	10 U
Butyl benzylphthalate	10	11 U	10 U
3,3'-Dichlorobenzidine	10	11 U	10 U
Benzo(a)anthracene	10	11 U	10 U
Chrysene	10	11 U	10 U
bis(2-Ethylhexyl)phthalate	10	17 B	9.0 JB
Di-n-octylphthalate	10	11 U	10 U
Benzo(b)fluoranthene	10	11 U	10 U
Benzo(k)fluoranthene	10	11 U	10 U
Benzo(a)pyrene	10	11 U	10 U
Indeno(1,2,3-cd)pyrene	10	11 U	10 U
Dibenzo(a,h)anthracene	10	11 U	10 U
Benzo(g,h,i)perylene	10	11 U	10 U
Dilution Factor:		1.1	1.0
Associated Method Blank:		-	-
Associated Equipment Blank:		-	-
Associated Field Blank:		-	-

Box Number: 9904-02B

Table 2
Validation / Summary Table

SAMPLE LOCATION:	WOMW711XXX96XX	WOMW711XXX96XD	WOMW715XXX96XX
LAB NUMBER:	WM1483-1 D	WM1483-3	WM1483-9
DATE SAMPLED:	07/11/96	07/11/96	07/11/96
DATE EXTRACTED:	07/15/96	07/15/96	07/15/96
DATE ANALYZED:	08/30/96	08/30/96	08/30/96

ANALYTE	RL			
Phenol	10	21 UJ	10 UJ	10 UJ
bis(2-Chloroethyl)ether	10	21 UJ	10 UJ	10 UJ
2-Chlorophenol	10	21 UJ	10 UJ	10 UJ
1,3-Dichlorobenzene	10	21 UJ	10 UJ	10 UJ
1,4-Dichlorobenzene	10	21 UJ	10 UJ	10 UJ
1,2-Dichlorobenzene	10	21 UJ	10 UJ	10 UJ
2-Methylphenol	10	21 UJ	10 UJ	10 UJ
bis(2-Chloroisopropyl) ether	10	21 UJ	10 UJ	10 UJ
4-Methylphenol	10	21 UJ	10 UJ	10 UJ
n-Nitroso-dipropylamine	10	21 UJ	10 UJ	10 UJ
Hexachloroethane	10	21 UJ	10 UJ	10 UJ
Nitrobenzene	10	21 UJ	10 UJ	10 UJ
Isophorone	10	21 UJ	10 UJ	10 UJ
2-Nitrophenol	10	21 UJ	10 UJ	10 UJ
2,4-Dimethylphenol	10	21 UJ	10 UJ	10 UJ
bis(2-Chloroethoxy)methane	10	21 UJ	10 UJ	10 UJ
2,4-Dichlorophenol	10	21 UJ	10 UJ	10 UJ
1,2,4-Trichlorobenzene	10	21 UJ	10 UJ	10 UJ
Naphthalene	10	89 J	96 J	10 UJ
4-Chloroaniline	10	21 UJ	10 UJ	10 UJ
Hexachlorobutadiene	10	21 UJ	10 UJ	10 UJ
4-Chloro-3-methylphenol	10	21 UJ	10 UJ	10 UJ
2-Methylnaphthalene	10	37 J	42 J	10 UJ
Hexachlorocyclopentadiene	10	21 UJ	10 UJ	10 UJ
2,4,6-Trichlorophenol	10	21 UJ	10 UJ	10 UJ
2,4,5-Trichlorophenol	25	53 UJ	25 UJ	25 UJ
2-Chloronaphthalene	10	21 UJ	10 UJ	10 UJ
2-Nitroaniline	25	53 UJ	25 UJ	25 UJ
Dimethylphthalate	10	21 UJ	10 UJ	10 UJ
Acenaphthylene	10	21 UJ	10 UJ	10 UJ
2,6-Dinitrotoluene	10	21 UJ	10 UJ	10 UJ

Table 2
Validation / Summary Table

SAMPLE LOCATION:	WOMW711XXX96XX	WOMW711XXX96XD	WOMW715XXX96XX
LAB NUMBER:	WM1483-1 D	WM1483-3	WM1483-9
DATE SAMPLED:	07/11/96	07/11/96	07/11/96
DATE EXTRACTED:	07/15/96	07/15/96	07/15/96
DATE ANALYZED:	08/30/96	08/30/96	08/30/96
ANALYTE	RL		
3-Nitroaniline	25	53 UJ	25 UJ	25 UJ
Acenaphthene	10	21 UJ	10 UJ	10 UJ
2,4-Dinitrophenol	25	53 UJ	25 UJ	25 UJ
4-Nitrophenol	25	53 UJ	25 UJ	25 UJ
Dibenzofuran	10	21 UJ	10 UJ	10 UJ
2,4-Dinitrotoluene	10	21 UJ	10 UJ	10 UJ
Diethylphthalate	10	21 UJ	10 UJ	10 UJ
4-Chlorophenyl phenyl ether	10	21 UJ	10 UJ	10 UJ
Fluorene	10	21 UJ	10 UJ	10 UJ
4-Nitroaniline	25	53 UJ	25 UJ	25 UJ
4,6-Dinitro-2-methylphenol	25	53 UJ	25 UJ	25 UJ
n-Nitrosodiphenylamine	10	21 UJ	10 UJ	10 UJ
4-Bromophenyl phenyl ether	10	21 UJ	10 UJ	10 UJ
Hexachlorobenzene	10	21 UJ	10 UJ	10 UJ
Pentachlorophenol	25	53 UJ	25 UJ	25 UJ
Phenanthrene	10	21 UJ	10 UJ	10 UJ
Anthracene	10	21 UJ	10 UJ	10 UJ
Carbazole	10	21 UJ	10 UJ	10 UJ
Di-n-butylphthalate	10	21 UJ	10 UJ	10 UJ
Fluoranthene	10	21 UJ	10 UJ	10 UJ
Pyrene	10	21 UJ	10 UJ	10 UJ
Butyl benzylphthalate	10	21 UJ	10 UJ	10 UJ
3,3'-Dichlorobenzidine	10	21 UJ	10 UJ	10 UJ
Benzo(a)anthracene	10	21 UJ	10 UJ	10 UJ
Chrysene	10	21 UJ	10 UJ	10 UJ
bis(2-Ethylhexyl)phthalate	10	220 UJ	51 UJ	10 UJ
Di-n-octylphthalate	10	21 UJ	10 UJ	10 UJ
Benzo(b)fluoranthene	10	21 UJ	10 UJ	10 UJ
Benzo(k)fluoranthene	10	21 UJ	10 UJ	10 UJ
Benzo(a)pyrene	10	21 UJ	10 UJ	10 UJ
Indeno(1,2,3-cd)pyrene	10	21 UJ	10 UJ	10 UJ
Dibenzo(a,h)anthracene	10	21 UJ	10 UJ	10 UJ
Benzo(g,h,i)perylene	10	21 UJ	10 UJ	10 UJ
Dilution Factor:		2.1	1.0	1.0
Associated Method Blank:		K1146	K1146	K1146
Associated Equipment Blank:		WOBSXX3XXX96XX	WOBSXX3XXX96XX	WOBSXX3XXX96XX
Associated Field Blank:		-	-	-

Box Number: 9904-02

Table 2
Validation / Summary Table

SAMPLE LOCATION:		WOMW215XXX96XX	WOMW216XXX96XX	WOMW217XXX96XD	WOMW217XXX96XX	WOMW714XXX96XX	WOMW713XXX96XX	WOMW716XXX96XX	WOMW708XXX96XX
LAB NUMBER:		WM1469-1	WM1469-2	WM1469-3	WM1469-4	WM1483-6 R	WM1483-7	WM1483-8	WM1484-1
DATE SAMPLED:		07/09/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/11/96
DATE EXTRACTED:		07/15/96	07/15/96	07/15/96	07/15/96	08/01/96	07/15/96	07/15/96	07/15/96
DATE ANALYZED:		07/24/96	07/25/96	07/24/96	07/25/96	08/07/96	07/26/96	07/26/96	07/26/96
ANALYTE	RL								
Phenol	10	9.0 J	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2-Chlorophenol	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
1,3-Dichlorobenzene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
1,4-Dichlorobenzene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
1,2-Dichlorobenzene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2-Methylphenol	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
bis(2-Chloroisopropyl) ether	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
4-Methylphenol	10	130	81	97	85	10 UJ	10 U	10 U	10 U
n-Nitroso-dipropylamine	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Hexachloroethane	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Nitrobenzene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Isophorone	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2-Nitrophenol	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2,4-Dimethylphenol	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	6.0 J
bis(2-Chloroethoxy)methane	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2,4-Dichlorophenol	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Naphthalene	10	260	220	110	95	10 UJ	10 U	45	120
4-Chloroaniline	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Hexachlorobutadiene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
4-Chloro-3-methylphenol	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2-Methylnaphthalene	10	100	82	94	86	10 UJ	10 U	73	52
Hexachlorocyclopentadiene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2,4,5-Trichlorophenol	25	28 U	28 U	25 U	28 U	25 UJ	25 U	25 U	25 U
2-Chloronaphthalene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2-Nitroaniline	25	28 U	28 U	25 U	28 U	25 UJ	25 U	25 U	25 U
Dimethylphthalate	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Acenaphthylene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
2,6-Dinitrotoluene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U

Table 2
Validation / Summary Table

SAMPLE LOCATION:		WOMW215XXX96XX	WOMW216XXX96XX	WOMW217XXX96XD	WOMW217XXX96XX	WOMW714XXX96XX	WOMW713XXX96XX	WOMW716XXX96XX	WOMW708XXX96XX
LAB NUMBER:		WM1469-1	WM1469-2	WM1469-3	WM1469-4	WM1483-6 R	WM1483-7	WM1483-8	WM1484-1
DATE SAMPLED:		07/09/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/10/96	07/11/96
DATE EXTRACTED:		07/15/96	07/15/96	07/15/96	07/15/96	08/01/96	07/15/96	07/15/96	07/15/96
DATE ANALYZED:		07/24/96	07/25/96	07/24/96	07/25/96	08/07/96	07/26/96	07/26/96	07/26/96
ANALYTE	RL								
3-Nitroaniline	25	28 U	28 U	25 U	28 U	25 UJ	25 U	25 U	25 U
Acenaphthene	10	11 U	11 U	9.0 J	8.0 J	10 UJ	10 U	10 U	10 U
2,4-Dinitrophenol	25	28 U	28 U	25 U	28 U	25 UJ	25 U	25 U	25 U
4-Nitrophenol	25	28 U	28 U	25 U	28 U	25 UJ	25 U	25 U	25 U
Dibenzofuran	10	11 U	11 U	8.0 J	7.0 J	10 UJ	10 U	10 U	10 U
2,4-Dinitrotoluene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Diethylphthalate	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Fluorene	10	11 U	11 U	10 J	9.0 J	10 UJ	10 U	10 U	10 U
4-Nitroaniline	25	28 U	28 U	25 U	28 U	25 UJ	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	28 U	28 U	25 U	28 U	25 UJ	25 U	25 U	25 U
n-Nitrosodiphenylamine	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
4-Bromophenyl phenyl ether	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Hexachlorobenzene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Pentachlorophenol	25	28 U	28 U	25 U	28 U	25 UJ	25 U	25 U	25 U
Phenanthrene	10	11 U	11 U	19	19	10 UJ	10 U	10 U	10 U
Anthracene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Carbazole	10	11 U	19	32	36	10 UJ	10 U	10 U	10 U
Di-n-butylphthalate	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Fluoranthene	10	11 U	11 U	6.0 J	6.0 J	10 UJ	10 U	10 U	10 U
Pyrene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Butyl benzylphthalate	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Benzo(a)anthracene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Chrysene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	58 U	74 U	26 U	27 U	15 UJ	21 U	13 U	8.0 UJ
Di-n-octylphthalate	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Benzo(b)fluoranthene	10	11 U	11 U	10 U	11 U	8 UJ	10 U	10 U	10 U
Benzo(k)fluoranthene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Benzo(a)pyrene	10	11 U	11 U	10 U	11 U	6 UJ	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Dibenzo(a,h)anthracene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	11 U	11 U	10 U	11 U	10 UJ	10 U	10 U	10 U
Dilution Factor:		1.1	1.1	1.0	1.1	1.0	1.0	1.0	1.0
Associated Method Blank:		K0722	K0722	K0722	K0722	K0867	K0722	K0722	K0722
Associated Equipment Blank:		00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX3XXX96XX	00BSXX4XXX96XX
Associated Field Blank:		-	-	-	-	-	-	-	-

Box Number: 9904-02

Table 2
Validation / Summary Table

SAMPLE LOCATION:		WOMW710XXX96XX	WOMW709XXX96XX	WOMW712XXX96XX
LAB NUMBER:		WM1484-2	WM1484-4	WM1484-6
DATE SAMPLED:		07/11/96	07/11/96	07/11/96
DATE EXTRACTED:		07/15/96	07/15/96	07/15/96
DATE ANALYZED:		08/01/96	07/26/96	08/01/96
ANALYTE	RL			
Phenol	10	10 U	10 U	2.0 J
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U
bis(2-Chloroisopropyl) ether	10	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U
n-Nitroso-dipropylamine	10	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	2.0 J
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U
Naphthalene	10	89	92	140
4-Chloroaniline	10	10 U	10 U	10 U
Hexachlorobutadiene	10	10 U	10 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U
2-Methylnaphthalene	10	35 U	36	82
Hexachlorocyclopentadiene	10	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U
2,4,5-Trichlorophenol	25	25 U	25 U	25 U
2-Chloronaphthalene	10	10 U	10 U	10 U
2-Nitroaniline	25	25 U	25 U	25 U
Dimethylphthalate	10	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U

Table 2
Validation / Summary Table

SAMPLE LOCATION:		WOMW710XXX96XX	WOMW709XXX96XX	WOMW712XXX96XX
LAB NUMBER:		WM1484-2	WM1484-4	WM1484-6
DATE SAMPLED:		07/11/96	07/11/96	07/11/96
DATE EXTRACTED:		07/15/96	07/15/96	07/15/96
DATE ANALYZED:		08/01/96	07/26/96	08/01/96
ANALYTE	RL			
3-Nitroaniline	25	25 U	25 U	25 U
Acenaphthene	10	10 U	10 U	10 U
2,4-Dinitrophenol	25	25 U	25 U	25 U
4-Nitrophenol	25	25 U	25 U	25 U
Dibenzofuran	10	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	10	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U
4-Nitroaniline	25	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	25 U	25 U	25 U
n-Nitrosodiphenylamine	10	10 U	10 U	10 U
4-Bromophenyl phenyl ether	10	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U
Pentachlorophenol	25	25 U	25 U	25 U
Phenanthrene	10	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U
Carbazole	10	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U
Butyl benzylphthalate	10	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10	10 U	10 U	10 U
Benzo(a)anthracene	10	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	16 U	18 U	8.0 UJ
Di-n-octylphthalate	10	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U
Dibenzo(a,h)anthracene	10	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U
Dilution Factor:		1.0	1.0	1.0
Associated Method Blank:		Z1537	K0722	Z1537
Associated Equipment Blank:		00BSXX4XXX96XX	00BSXX4XXX96XX	00BSXX4XXX96XX
Associated Field Blank:		-	-	-

Box Number: 9904-02

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR FORMER WESTOVER AFB SITES; FILE: 9904-03
AQUEOUS (ug/L)

VOLATILE

	WOMW201XXX96XX	WOMW201XXX96XD	WOMW202XXX96XX	WOMW204XXX96XX
C9H12 Isomer	179 J	121 J	960 J	79 J
Propyl Benzene		8 J		
Pentane			320 J	
Unknown			150 J	20 J
C6H12 Isomer			740 J	
C7H14 Isomer			530 J	
Alkane				14 J

	WOMW206XXI96XX	WOMW206XXI96XD	WOMW208XXI96XX	WOMW212XXI96XX
C9H12 Isomer	703 J	796 J	27 J	
Benzene, Propyl-	44 J			
C10H14 Isomer	30 J			
Unknown		31 J		
Naphthalene			21 J	
C11H10 Isomer				6 J

	WOMW213XXI96XX	WOMWXX5XXD96XX	WOMW306XXX96XX	WOMW701XXX96XX
C12H12 Isomer	158 J			
C8H16 Isomer	7 J			
C9H12 Isomer	10 J	185 J		1460 J
C11H10 Isomer	23 J			
C13H14 Isomer	16 J			
Naphthalene	23 J			590 J
Pentane		17 J		
Alkane		68 J		3450 J
1-Butanol, 2-methyl		66 J		
Benzene, Propyl-		18 J		
C10H14 Isomer		21 J	6 J	
Indane		12 J		
Indan, 1-Methyl		19 J		
Naphthalene, 1-Methyl			13 J	
Heptane				490 J
Octane				550 J
Nonane				1300 J
Unknown				610 J
Decane				1300 J

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR FORMER WESTOVER AFB SITES; FILE: 9904-03
AQUEOUS (ug/L)

VOLATILE cont.

	WOMW702XXX96XX	WOMW704XXX96XX	WOMW707XXX96XX	WOMW209XXX96XX
Alkane	135 J			
Methylnaphthalene Isomer	64 J		750 J	
Unknown	8 J			
Decahydro-4,4,8,9,10-Pentamethylnap	33 J			
Naphthalene	9 J			32 J
Pentane		390 J		
Pentane, 2-Methyl		550 J		
Pentane, 3-Methyl		430 J		
C9H12 Isomer		3970 J	25 J	154 J
Indane		430 J		
C11H14 Isomer			85 J	
Benzone, pentamethyl			180 J	
Naphthalene, 1-Methyl-			1500 J	
Naphthalene, 6-ethyl-1,2,3,4-Tetrah			47 J	
Naphthalene,1,2,3,4-Tetrahydro-1,5			45 J	
Ethylnaphthalene Isomer			209 J	
Dimethylnaphthalene Isomer			330 J	
Indane				9 J
C10H14 Isomer				26 J
Trimethylnaphthalene Isomer				7 J

NO VOLATILE TIC's WERE IDENTIFIED IN THE FOLLOWING SAMPLES:

WOMW210XXX96XX
WOMW203XXX96XX
WOMW205BXX96XX
WOMWXX2XXD96XX

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR FORMER WESTOVER AFB SITES; FILE: 9904-02
AQUEOUS (ug/L)

VOLATILE

	WOMW215XXX96XX	WOMW216XXX96XX	WOMW217XXX96XD	WOMW217XXX96XX
C9H12	1600 J	1800 J	1200 J	1200 J
Pentane		300 J		
Alkane			67 J	
Unknown				96 J

	WOMW714XXX96XX	WOMW713XXX96XX	WOMW716XXX96XX
Unknown	18 J		
C9H12 Isomer	73 J	230 J	480 J
Pentane, 3-Methyl		9 J	
C10H14 Isomer		53 J	11 J
Indan, 1-Methyl-		7 J	
Alkane			56 J
1-Butanol, 2-Methyl			84 J

	WOMW708XXX96XX	WOMW710XXX96XX	WOMW709XXX96XX	WOMW712XXX96XX
Alkane	120 J			
Pentane	150 J	450 J		
Pentane, 2-Methyl	350 J	590 J		
Heptane, 2-Methyl-	62 J			
Nonane	61 J		590 J	
C9H12 Isomer	1700 J	2000 J	7600 J	
Benzene, tert-butyl-	51 J			
C9H10 Isomer	110 J			1000 J
C10H14 Isomer	55 J		590 J	
Butane, 2-Methyl		160 J		
Decane			580 J	
Indane			1000 J	

SEMIVOLATILE

	WOMW215XXX96XX	WOMW216XXX96XX	WOMW217XXX96XD	WOMW217XXX96XX
C9H12 Isomer	1100 J	1000 J	1400 J	1400 J
Butanoic Acid	57 J			
C10H14 Isomer	160 J	370 J	220 J	150 J
Indane	99 J		51 J	46 J
Unknown	130 J		55 J	55 J
Alkane	54 J	440 J		41 J
Dibenzofuran	50 J			
Octane		120 J		
Nonane		190 J		
Undecane		400 J		
1-H-Indene,2,3-Dihydro-5-Methyl		140 J		
Naphthalene, 1,2,3,4-Tetrahydro-		250 J		
Dodecane		340 J		46 J
Methyl Naphthalene Isomer		140 J	41 J	55 J
Dimethyl Naphthalene Isomer			68 J	100 J
Indole				42 J

TENTATIVELY IDENTIFIED COMPOUND (TIC) SUMMARY
FOR FORMER WESTOVER AFB SITES; FILE: 9904-02
AQUEOUS (ug/L)

SEMIVOLATILE cont.

	WOMW714XXX96XX	WOMW713XXX96XX	WOMW716XXX96XX
C9H12 Isomer	48 J	43 J	460 J
1H-Indene,2,3-dihydro			
C10H14 Isomer	10 J	43 J	87 J
Naphthalene,1,2,3,4-Tetrahydro-			14 J
Methyl Naphthalene Isomer			52 J
Benzoic Acid,3,5-Dimethyl			
Unknown	19 J		
Indane	11 J		20 J
Diethyl Benzene Isomer		8 J	
4-Morpholineethanol		5 J	
4-Mordholineethanomine		29 J	
2,3-Dihydro-1-Methylindene			30 J
Dimethyl Naphthalene Isomer			41 J

	WOMW708XXX96XX	WOMW710XXX96XX	WOMW709XXX96XX	WOMW712XXX96XX
C9H12 Isomer	1700 J	760 J	990 J	1200 J
Benzene Cyclopropyl	150 J			
C10H14 Isomer	240 J	210 J	87 J	170 J
Benzene,(1-Methyl-1-Propenyl)	46 J			
Benzene, tert-Butyl-	51 J			
Naphthalene, 1,2,3,4-Tetrahydro	67 J	22 J	68 J	5 J
Unknown		65 J		33 J
1-H-Indene,2,3-dihydro		130 J	34 J	61 J
Alkane		55 J		
Methyl Naphthalene Isomer		10 J		15 J
2,3-Dihydro-1-Methylindene		12 J		
Indane			110 J	
Benzene,2-ethenyl-14-dimethyl			38 J	
1-H-Indene 2,3-dihydro-4-Methyl			46 J	
Benzeneacetic Acid,.Alpha.-Methyl			90 J	
Benzanoic Acid,2,4,5-Trimethyl			35 J	
Unknown Aromatic			35 J	
Benzoic Acid, 2-Methyl				5 J

	WOMW711XXX96XX	WOMW711XXX96XD	WOMW715XXX96XX
C9H12 Isomer	1100 J	1100 J	
Indane	67 J	68 J	
C10H14 Isomer	240 J	240 J	
2,3-Dihydro-1-MethylIndene	30 J		
Naphthalene,1,2,3,4-tetrahydro	43 J	42 J	
Indan, 1-Methyl		31 J	
Unknown			24 J
4-Morpholineethanamine			18 J

APPENDIX C

CHEMICAL QUALITY ASSURANCE REPORTS

C-1 ROUND I 1995 CHEMICAL QUALITY ASSURANCE REPORT
C-2 1994 - 1996 QUALITY ASSURANCE REPORT

C-1 ROUND I 1995 CHEMICAL QUALITY ASSURANCE REPORT

RECORD OF TRANSMITTAL

CENED-ED-GL 19 December 1995

FOR Project Engineer, U.S. Army Engineer Division, New England
424 Trapelo Rd.
Waltham, MA 02254
ATTN: CENED-ED-EH (Gary Lacroix)

SUBJECT: Westover Air Force Base Monitoring Program Round I 1995, Chemical Quality Assurance Report (CQAR)

1. References:

a. Environmental Laboratory Project No. E0126

b. Data Reports, ABB Environmental Services, Inc., dated 15 September 1995, recv'd. 18 September 1995.

c. Memorandum, CEMRD-ED-GC, 16 Aug 1989, Subject: Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects.

2. QA samples from three shipments were analyzed, resulting in a total of 426 target analyte determinations. In 46 of these determinations analytes were detected by either one or both laboratories. Results from analysis of QA samples were compared with results from analysis of the corresponding primary samples (ref 1b). Results of the comparison are as follows:

a. The primary laboratory was Pace, Inc., Westbrook, ME.

b. Results from the primary and QA samples agreed overall in 426 (99%) of the comparisons.

c. Results from the primary and QA samples agreed quantitatively in 42 out of 46 or 91% of the comparisons. Quantitative agreement represents only those determinations where an analyte was detected by at least one laboratory.

d. There was 1 (0.2%) major discrepancy noted between results from the primary and QA samples.

e. There were 3 (0.7%) minor discrepancies noted between results from the primary and QA samples.

3. QA analyses were performed at the NED Environmental Laboratory and at E3I, Somerville, MA.

4. The CENED-ED-GL POC is David Lubianez, 508-928-4238.

Encl

CF (w/encl):
CEMP-RT Larry Becker
CEMRD-ED-EC Anand Mudambi

QA Data Comparison Split Sample Summary

Project: Westover AFB - Monitoring Program Round I 1995

Test Parameter	Overall Agreement (1)		Quantitative Agreement (2)	
	Number	Percent	Number	Percent
VOAs	172/174	99	16/18	89
BNAs	250/252	99	26/28	93
Total	422/426	99	42/46	91

NOTES:

(1) Represents the number and percentage agreement of all determinations including analytes not detected by either laboratory.

(2) Represents the number and percentage agreement of only those determinations where an analyte was detected by at least one laboratory.

ANALYSES PERFORMED BY QA LABORATORY

SAMPLE ID	MATRIX	SAMPLE DATE	ANALYSIS
WOGW704XXX01XR	WATER	7/11/95	VOA, BNA
WOBTXX1XXX01R	WATER	7/11/95	VOA
WOBSXX1XXX01XR	WATER	7/10/95	VOA, BNA
WOGW102XXX01XR	WATER	7/10/95	VOA
WOGW301XXX01XX	WATER	7/13/95	VOA, BNA
WOBTXX2XXX01XX	WATER	7/12/95	VOA
WOGW307XXX01XX	WATER	7/12/95	VOA, BNA
WOGW202XXX01XR	WATER	7/15/95	VOA, BNA
WOGWBTXX4XXY01XR	WATER	7/15/95	VOA

QA Findings

(Westover AFB Monitoring Program Round I 1995, Env. Proj. No. E0126)

1. QA sample shipping and chain-of-custody deficiencies

3 shipments of QA samples were received on 7/12/95, 7/14/95 and 7/18/95. Proper sample handling protocols were mostly followed except that not all samples were sealed in separate plastic bags from the 7/12 shipment and a small bubble was noted in one of the VOA vials from the 7/18 shipment. Information about sample handling was telefaxed to Mr. Gary Lacroix at CENED-ED-EH.

Chain of custody documents and cooler receipt forms are appended to this report for reference.

2. Data comparison for volatile organic analysis (VOAs).

There were 174 VOA determinations. In 18 of these determinations VOCs were detected by at least one laboratory. There was overall agreement in 172 (99%) of the cases and quantitative agreement in 16 out of 18 or 89%. Disagreement was due to one major and one minor data discrepancies.

Dichloromethane was reported by both the QA lab and contractor's lab as being present in method blanks and samples. This is most likely a laboratory artifact from the laboratories' ambient air. Trip blanks were relatively free of contamination apart for some dichloromethane, and small estimated quantities of chloromethane and xylenes. There is no record of pH for the QA VOA samples.

A major discrepancy was noted in sample 31808 where the QA lab reported < 2.0 ug/L o/m/p-xylene and the contractor's lab reported J 30 ug/L.

All QA surrogate recoveries for sample 31751 were out of range high. The QA lab reported a large amounts of non-analyte branched and normal alkanes in the C_{10}-C_{14} range present in this sample. The contractor data did not report surrogate recoveries for this sample, but reported matrix interference. The QA lab also reported large amounts of various pentanes and hexanes present in sample 31808 indicative of mineral spirits and petroleum ethers.

3. Data comparison for semivolatile organic analysis (BNAs).

There were 252 semivolatile determinations. In 28 of these determinations BNAs were detected by at least one laboratory. There was overall agreement in 250 (99%) of the cases and

quantitative agreement in 26 out of 28 or 93%. Disagreement was due to two minor data discrepancies; no major discrepancies were noted.

4. Comments.

Contractor's data package was in compliance with the Minimum Chemistry Data Reporting Compliance.

APPENDIX A

Analytical Methods

Test Parameter	QA lab	Primary Lab
VOA	8260	8240
BNA	3510/8270	3520/8270

APPENDIX B
KEY TO COMMENTS ON DATA COMPARISON TABLES

0 - Data agrees if any one of the following apply:

- both values are less than respective detection limit (N<MDL)
- N_1<MDL_1 and N_2>MDL_2 but <MDL_1
- both values are above respective detection limit (N>MDL) and difference between two values satisfies conditions below

Metals	<2x difference for waters, TCLP extracts <3x difference for airs <10x difference for solids and oils
Semivolatiles Volatiles TPH, BTEX	<5x difference for all matrices
Pesticides Herbicides PCB's	<5x difference for liquids <10x difference for solids <5x difference for airs
Alkalinity Hardness, Ammonia (water quality, etc.)	<2x difference for all matrices

1 - Minor contamination by laboratory contaminant
2 - Not tested by both laboratories
3 - Minor data discrepancy, disagreement not serious, if any one of the following apply:

- N_1<MDL_1 and N_2>MDL_2 and the difference between values N_2 and MDL_1 does not exceed the upper limit (described below) defining a minor data discrepancy
- both values are above respective detection limit (N>MDL) and conditions described below apply to the difference between the two values

Metals	2x<difference<5x for waters,TCLP extracts 10x<difference<20x for solids, oils 3x<difference<5x for airs
Semivolatiles, VOA, TPH, BTEX	5x<difference<10x for all matrices
Pesticide/PCB Herbicides	5x<difference<10x for liquids 10x<difference<20x for solids
Alkalinity Hardness,Ammonia (water quality, etc.)	2x<difference<5x for all matrices

4 - Major data discrepancy, disagreement serious, if any one of the following apply:

- $N_1 < MDL_1$ and $N_2 > MDL_2$ and the difference between values N_2 and MDL_1 exceeds the limit (described below) defining a major data discrepancy
- both values are above respective detection limit (N>MDL) and conditions described below apply to the difference between the two values

Metals	>5x difference for waters, TCLP extracts, airs >20x difference for solids, oils
Semivolatiles, VOA, TPH, BTEX	>10x difference for all matrices
Pesticide/PCB Herbicides	>10x difference for liquids >20x difference for solids
Alkalinity Hardness, Ammonia (water quality, etc.)	>5x difference for all matrices

MDL = Method Detection Limit
N = Analytical result

<u>Key to data qualifiers:</u>

B - detected in method blank
J - estimated value, above MDL but below practical quantitation limit
NR - Not reported

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31867
QA FIELD ID: WOGW202XXX01XR
QA ANALYSIS DATE: 07/20/95

CONTRACTOR'S SAMPLE NO.: WL-1075-7
CONTRACTOR'S FIELD ID: WOGW202XXX01XD
CONTRACTOR'S ANALYSIS DATE: 07/26/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/15/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Dichlorodifluoromethane	< 7.5		NA		2
Chloromethane	< 2.1		< 200		0
Vinyl chloride	< 1.4		< 200		0
Bromomethane	< 2.7		< 200		0
Chloroethane	< 2.0		< 200		0
Trichlorofluoromethane	< 1.1		NA		2
1,1-Dichloroethene	< 1.7		< 100		0
Dichloromethane (MeCl2)	< 2.0	B 8.4		B, J 59	1
trans-1,2-Dichloroethene	< 1.8		< 100		0
1,1-Dichloroethane	< 1.4		< 100		0
2,2-Dichloropropane	< 5.2		NA		2
cis 1,2-Dichloroethene	< 1.6		< 100		0
Chloroform	< 1.6		< 100		0
Bromochloromethane	< 2.2		NA		2
1,1,1-Trichloroethane	< 2.4		< 100		0
1,1-Dichloropropene	< 1.6		NA		2
Carbon Tetrachloride	< 2.2		< 100		0
1,2-Dichloroethane	< 3.1		< 100		0
Benzene	< 2.2	82	< 100		0
Trichloroethene	< 2.2		< 100		0
1,2-Dichloropropane	< 1.8		< 100		0
Bromodichloromethane	< 2.0		< 100		0
Dibromomethane	< 3.0		NA		2
cis 1,3-Dichloro,1-propene	< 2.5		< 100		0
Toluene	< 1.9	U 2500		3800	0
trans 1,3-Dichloro,1-propene	< 3.6		< 100		0
1,1,2-Trichloroethane	< 3.7		< 100		0
1,2-Dibromoethane	< 3.7		NA		2
1,3-Dichloropropane	< 2.7		NA		2
Tetrachloroethene	< 1.5		< 100		0
Dibromochloromethane	< 2.3		< 100		0
Chlorobenzene	< 1.4		< 100		0
1,1,1,2-Tetrachloroethane	< 1.5		NA		2
Ethylbenzene	< 1.4	U 600		1000	0
o/m/p Xylene	< 2.0	U 2600		4700	0
Styrene	< 1.4		< 100		0
Bromoform	< 3.3		< 100		0
Isopropylbenzene	< 1.5	87	NA		2

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31867 CONTRACTOR'S SAMPLE NO.: WL-1075-7

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
1,1,2,2-Tetrachloroethane	< 5.0		< 100		0
1,2,3-Trichloropropane	< 2.7		NA		2
n-Propylbenzene	< 1.4	80	NA		2
Bromobenzene	< 1.6		NA		2
1,3,5-Trimethylbenzene	< 1.5	U 310	NA		2
2-Chlorotoluene	< 1.7		NA		2
4-Chlorotoluene	< 1.2		NA		2
tert-Butylbenzene	< 1.6		NA		2
1,2,4-Trimethylbenzene	< 1.4	U 600	NA		2
sec-Butylbenzene	< 1.4	15	NA		2
p-Isopropyltoluene	< 1.4	96	NA		2
1,3-Dichlorobenzene	< 1.4		NA		2
1,4-Dichlorobenzene	< 1.5		NA		2
n-Butylbenzene	< 1.5		NA		2
1,2-Dichlorobenzene	< 1.6		NA		2
1,2-Dibromo-3-chloropropane	< 3.5		NA		2
1,2,4-Trichlorobenzene	< 1.9		NA		2
Hexachlorobutadiene	< 1.8		NA		2
Naphthalene	< 2.7	U 210	NA		2
1,2,3-Trichlorobenzene	< 2.4		NA		2

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Toluene D8 (88-110)	88	92
Dibromofluoromethane (86-118)	111	NR
4-Bromofluorobenzene (86-115)	*81	102
1,2-Dichloroethane-d4	NR	97

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31808
QA FIELD ID: WOGW307XXX01XX
QA ANALYSIS DATE: 07/20/95

CONTRACTOR'S SAMPLE NO.: WL-1062-15
CONTRACTOR'S FIELD ID: WOGW307XXX01XX
CONTRACTOR'S ANALYSIS DATE: 07/21/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/12/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Dichlorodifluoromethane	< 7.5		NA		2
Chloromethane	< 2.1		< 100		0
Vinyl chloride	< 1.4		< 100		0
Bromomethane	< 2.7		< 100		0
Chloroethane	< 2.0		< 100		0
Trichlorofluoromethane	< 1.1		NA		2
1,1-Dichloroethene	< 1.7		< 50		0
Dichloromethane (MeCl2)	< 2.0			B, J 61	1
trans-1,2-Dichloroethene	< 1.8		< 50		0
1,1-Dichloroethane	< 1.4		< 50		0
2,2-Dichloropropane	< 5.2		NA		2
cis 1,2-Dichloroethene	< 1.6		< 50		0
Chloroform	< 1.6		< 50		0
Bromochloromethane	< 2.2		NA		2
1,1,1-Trichloroethane	< 2.4		< 50		0
1,1-Dichloropropene	< 1.6		NA		2
Carbon Tetrachloride	< 2.2		< 50		0
1,2-Dichloroethane	< 3.1		< 50		0
Benzene	< 2.2		< 50		0
Trichloroethene	< 2.2		< 50		0
1,2-Dichloropropane	< 1.8		< 50		0
Bromodichloromethane	< 2.0		< 50		0
Dibromomethane	< 3.0		NA		2
cis 1,3-Dichloro,1-propene	< 2.5		< 50		0
Toluene	< 1.9		< 50		0
trans 1,3-Dichloro,1-propene	< 3.6		< 50		0
1,1,2-Trichloroethane	< 3.7		< 50		0
1,2-Dibromoethane	< 3.7		NA		2
1,3-Dichloropropane	< 2.7		NA		2
Tetrachloroethene	< 1.5		< 50		0
Dibromochloromethane	< 2.3		< 50		0
Chlorobenzene	< 1.4		< 50		0
1,1,1,2-Tetrachloroethane	< 1.5		NA		2
Ethylbenzene	< 1.4		< 50		0
o/m/p Xylene	< 2.0			J 30	4
Styrene	< 1.4		< 50		0
Bromoform	< 3.3		< 50		0
Isopropylbenzene	< 1.5	58	NA		2

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31808 CONTRACTOR'S SAMPLE NO.: WL-1062-15

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
1,1,2,2-Tetrachloroethane	< 5.0		< 50		0
1,2,3-Trichloropropane	< 2.7		NA		2
n-Propylbenzene	< 1.4	85	NA		2
Bromobenzene	< 1.6		NA		2
1,3,5-Trimethylbenzene	< 1.5	150	NA		2
2-Chlorotoluene	< 1.7		NA		2
4-Chlorotoluene	< 1.2		NA		2
tert-Butylbenzene	< 1.6		NA		2
1,2,4-Trimethylbenzene	< 1.4	U 240	NA		2
sec-Butylbenzene	< 1.4	12	NA		2
p-Isopropyltoluene	< 1.4	38	NA		2
1,3-Dichlorobenzene	< 1.4		NA		2
1,4-Dichlorobenzene	< 1.5		NA		2
n-Butylbenzene	< 1.5		NA		2
1,2-Dichlorobenzene	< 1.6		NA		2
1,2-Dibromo-3-chloropropane	< 3.5		NA		2
1,2,4-Trichlorobenzene	< 1.9		NA		2
Hexachlorobutadiene	< 1.8		NA		2
Naphthalene	< 2.7		NA		2
1,2,3-Trichlorobenzene	< 2.4		NA		2

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Toluene D8 (88-110)	*111	100
Dibromofluoromethane (86-118)	102	NA
4-Bromofluorobenzene (86-115)	99	110
1,2-Dichloroethane-d4	NA	99

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31751
QA FIELD ID: WOGW704XXX01XR
QA ANALYSIS DATE: 07/14/95

CONTRACTOR'S SAMPLE NO.: 44688-006
CONTRACTOR'S FIELD ID: WOGW704XXX01XD
CONTRACTOR'S ANALYSIS DATE: 07/24/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/11/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Dichlorodifluoromethane	< 375		NA		2
Chloromethane	< 105		< 500		0
Vinyl chloride	< 70		< 500		0
Bromomethane	< 135		< 500		0
Chloroethane	< 100		< 500		0
Trichlorofluoromethane	< 55		NA		2
1,1-Dichloroethene	< 85		< 250		0
Dichloromethane (MeC12)	< 100	B 710	< 500		1
trans-1,2-Dichloroethene	< 90		< 250		0
1,1-Dichloroethane	< 70		< 250		0
2,2-Dichloropropane	< 260		NA		2
cis 1,2-Dichloroethene	< 80		< 250		0
Chloroform	< 80		< 250		0
Bromochloromethane	< 110		NA		2
1,1,1-Trichloroethane	< 120		< 250		0
1,1-Dichloropropene	< 80		NA		2
Carbon Tetrachloride	< 110		< 250		0
1,2-Dichloroethane	< 155		< 250		0
Benzene	< 110	J 160		370	0
Trichloroethene	< 110		< 250		0
1,2-Dichloropropane	< 90		< 250		0
Bromodichloromethane	< 100		< 250		0
Dibromomethane	< 150		NA		2
cis 1,3-Dichloro,1-propene	< 125		< 250		0
Toluene	< 95	2500		5900	0
trans 1,3-Dichloro,1-propene	< 180		< 250		0
1,1,2-Trichloroethane	< 185		< 250		0
1,2-Dibromoethane	< 185		NA		2
1,3-Dichloropropane	< 135		NA		2
Tetrachloroethene	< 75		< 250		0
Dibromochloromethane	< 115		< 250		0
Chlorobenzene	< 70		< 250		0
1,1,1,2-Tetrachloroethane	< 75		NA		2
Ethylbenzene	< 70	1100		2000	0
o/m/p Xylene	< 100	4300		8300	0
Styrene	< 70		< 250		0
Bromoform	< 165		< 250		0
Isopropylbenzene	< 75	J 150	NA		2

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31751 CONTRACTOR'S SAMPLE NO.: 44688-006

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
1,1,2,2-Tetrachloroethane	< 250		< 250		0
1,2,3-Trichloropropane	< 135		NA		2
n-Propylbenzene	< 70	250	NA		2
Bromobenzene	< 80		NA		2
1,3,5-Trimethylbenzene	< 75	570	NA		2
2-Chlorotoluene	< 85		NA		2
4-Chlorotoluene	< 60		NA		2
tert-Butylbenzene	< 80		NA		2
1,2,4-Trimethylbenzene	< 70	820	NA		2
sec-Butylbenzene	< 70	J 110	NA		2
p-Isopropyltoluene	< 70	340	NA		2
1,3-Dichlorobenzene	< 70		NA		2
1,4-Dichlorobenzene	< 75		NA		2
n-Butylbenzene	< 75	330	NA		2
1,2-Dichlorobenzene	< 80		NA		2
1,2-Dibromo-3-chloropropane	< 175		NA		2
1,2,4-Trichlorobenzene	< 95		NA		2
Hexachlorobutadiene	< 90		NA		2
Naphthalene	< 135	J 320	NA		2
1,2,3-Trichlorobenzene	< 120		NA		2
Freon-113		NA	< 250		2

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Toluene D8 (88-110)	*111	NR
Dibromofluoromethane (86-118)	*146	NR
4-Bromofluorobenzene (86-115)	*128	NR

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31753
QA FIELD ID: WOBSXX1XXX01XR
QA ANALYSIS DATE: 07/13/95

CONTRACTOR'S SAMPLE NO.: 44688-009
CONTRACTOR'S FIELD ID: WOBSXX1XXX01XX
CONTRACTOR'S ANALYSIS DATE: 07/21/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/10/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Dichlorodifluoromethane	< 7.5		NA		2
Chloromethane	< 2.1		< 10		0
Vinyl chloride	< 1.4		< 10		0
Bromomethane	< 2.7		< 10		0
Chloroethane	< 2.0		< 10		0
Trichlorofluoromethane	< 1.1		NA		2
1,1-Dichloroethene	< 1.7		< 5		0
Dichloromethane (MeC12)	< 2.0	B 16	< 10		1
trans-1,2-Dichloroethene	< 1.8		< 5		0
1,1-Dichloroethane	< 1.4		< 5		0
2,2-Dichloropropane	< 5.2		NA		2
cis 1,2-Dichloroethene	< 1.6		< 5		0
Chloroform	< 1.6		< 5		0
Bromochloromethane	< 2.2		NA		2
1,1,1-Trichloroethane	< 2.4		< 5		0
1,1-Dichloropropene	< 1.6		NA		2
Carbon Tetrachloride	< 2.2		< 5		0
1,2-Dichloroethane	< 3.1		< 5		0
Benzene	< 2.2		< 5		0
Trichloroethene	< 2.2		< 5		0
1,2-Dichloropropane	< 1.8		< 5		0
Bromodichloromethane	< 2.0		< 5		0
Dibromomethane	< 3.0		NA		2
cis 1,3-Dichloro,1-propene	< 2.5		< 5		0
Toluene	< 1.9		< 5		0
trans 1,3-Dichloro,1-propene	< 3.6		< 5		0
1,1,2-Trichloroethane	< 3.7		< 5		0
1,2-Dibromoethane	< 3.7		NA		2
1,3-Dichloropropane	< 2.7		NA		2
Tetrachloroethene	< 1.5		< 5		0
Dibromochloromethane	< 2.3		< 5		0
Chlorobenzene	< 1.4		< 5		0
1,1,1,2-Tetrachloroethane	< 1.5		NA		2
Ethylbenzene	< 1.4		< 5		0
o/m/p Xylene	< 2.0		< 5		0
Styrene	< 1.4		< 5		0
Bromoform	< 3.3		< 5		0
Isopropylbenzene	< 1.5		NA		2

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31753 CONTRACTOR'S SAMPLE NO.: 44688-009

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
1,1,2,2-Tetrachloroethane	< 5.0		< 5		0
1,2,3-Trichloropropane	< 2.7		NA		2
n-Propylbenzene	< 1.4		NA		2
Bromobenzene	< 1.6		NA		2
1,3,5-Trimethylbenzene	< 1.5		NA		2
2-Chlorotoluene	< 1.7		NA		2
4-Chlorotoluene	< 1.2		NA		2
tert-Butylbenzene	< 1.6		NA		2
1,2,4-Trimethylbenzene	< 1.4		NA		2
sec-Butylbenzene	< 1.4		NA		2
p-Isopropyltoluene	< 1.4		NA		2
1,3-Dichlorobenzene	< 1.4		NA		2
1,4-Dichlorobenzene	< 1.5		NA		2
n-Butylbenzene	< 1.5		NA		2
1,2-Dichlorobenzene	< 1.6		NA		2
1,2-Dibromo-3-chloropropane	< 3.5		NA		2
1,2,4-Trichlorobenzene	< 1.9		NA		2
Hexachlorobutadiene	< 1.8		NA		2
Naphthalene	< 2.7		NA		2
1,2,3-Trichlorobenzene	< 2.4		NA		2
Freon-113		NA	< 5		2

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Toluene D8 (88-110)	100	NR
Dibromofluoromethane (86-118)	*120	NR
4-Bromofluorobenzene (86-115)	107	NR

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31754
QA FIELD ID: WOGW102XXX01XR
QA ANALYSIS DATE: 07/13/95

CONTRACTOR'S SAMPLE NO.: 44688-002
CONTRACTOR'S FIELD ID: WOGW102XXX01XD
CONTRACTOR'S ANALYSIS DATE: 07/21/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/10/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Dichlorodifluoromethane	< 7.5		NA		2
Chloromethane	< 2.1		< 10		0
Vinyl chloride	< 1.4		< 10		0
Bromomethane	< 2.7		< 10		0
Chloroethane	< 2.0		< 10		0
Trichlorofluoromethane	< 1.1		NA		2
1,1-Dichloroethene	< 1.7		< 5		0
Dichloromethane (MeCl2)	< 2.0	B 18	< 10		1
trans-1,2-Dichloroethene	< 1.8		< 5		0
1,1-Dichloroethane	< 1.4		< 5		0
2,2-Dichloropropane	< 5.2		NA		2
cis 1,2-Dichloroethene	< 1.6		< 5		0
Chloroform	< 1.6		< 5		0
Bromochloromethane	< 2.2		NA		2
1,1,1-Trichloroethane	< 2.4		< 5		0
1,1-Dichloropropene	< 1.6		NA		2
Carbon Tetrachloride	< 2.2		< 5		0
1,2-Dichloroethane	< 3.1		< 5		0
Benzene	< 2.2		< 5		0
Trichloroethene	< 2.2		< 5		0
1,2-Dichloropropane	< 1.8		< 5		0
Bromodichloromethane	< 2.0		< 5		0
Dibromomethane	< 3.0		NA		2
cis 1,3-Dichloro,1-propene	< 2.5		< 5		0
Toluene	< 1.9		< 5		0
trans 1,3-Dichloro,1-propene	< 3.6		< 5		0
1,1,2-Trichloroethane	< 3.7		< 5		0
1,2-Dibromoethane	< 3.7		NA		2
1,3-Dichloropropane	< 2.7		NA		2
Tetrachloroethene	< 1.5		< 5		0
Dibromochloromethane	< 2.3		< 5		0
Chlorobenzene	< 1.4		< 5		0
1,1,1,2-Tetrachloroethane	< 1.5		NA		2
Ethylbenzene	< 1.4		< 5		0
o/m/p Xylene	< 2.0		< 5		0
Styrene	< 1.4		< 5		0
Bromoform	< 3.3		< 5		0
Isopropylbenzene	< 1.5		NA		2

PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31754 CONTRACTOR'S SAMPLE NO.: 44688-002

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
1,1,2,2-Tetrachloroethane	< 5.0		< 5		0
1,2,3-Trichloropropane	< 2.7		NA		2
n-Propylbenzene	< 1.4		NA		2
Bromobenzene	< 1.6		NA		2
1,3,5-Trimethylbenzene	< 1.5		NA		2
2-Chlorotoluene	< 1.7		NA		2
4-Chlorotoluene	< 1.2		NA		2
tert-Butylbenzene	< 1.6		NA		2
1,2,4-Trimethylbenzene	< 1.4		NA		2
sec-Butylbenzene	< 1.4		NA		2
p-Isopropyltoluene	< 1.4		NA		2
1,3-Dichlorobenzene	< 1.4		NA		2
1,4-Dichlorobenzene	< 1.5		NA		2
n-Butylbenzene	< 1.5		NA		2
1,2-Dichlorobenzene	< 1.6		NA		2
1,2-Dibromo-3-chloropropane	< 3.5		NA		2
1,2,4-Trichlorobenzene	< 1.9		NA		2
Hexachlorobutadiene	< 1.8		NA		2
Naphthalene	< 2.7		NA		2
1,2,3-Trichlorobenzene	< 2.4		NA		2
Freon-113		NA	< 5		2

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Toluene D8 (88-110)	92	NR
Dibromofluoromethane (86-118)	*121	NR
4-Bromofluorobenzene (86-115)	101	NR

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31806
QA FIELD ID: WOGW301XXX01XX
QA ANALYSIS DATE: 07/14/95

CONTRACTOR'S SAMPLE NO.: WL-1062-4
CONTRACTOR'S FIELD ID: WOGW301XXX01XD
CONTRACTOR'S ANALYSIS DATE: 07/19/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/13/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Dichlorodifluoromethane	< 7.5		NA		2
Chloromethane	< 2.1		< 10		0
Vinyl chloride	< 1.4		< 10		0
Bromomethane	< 2.7		< 10		0
Chloroethane	< 2.0		< 10		0
Trichlorofluoromethane	< 1.1		NA		2
1,1-Dichloroethene	< 1.7		< 5		0
Dichloromethane (MeC12)	< 2.0	B 16	< 10		1
trans-1,2-Dichloroethene	< 1.8		< 5		0
1,1-Dichloroethane	< 1.4		< 5		0
2,2-Dichloropropane	< 5.2		NA		2
cis 1,2-Dichloroethene	< 1.6		< 5		0
Chloroform	< 1.6		< 5		0
Bromochloromethane	< 2.2		NA		2
1,1,1-Trichloroethane	< 2.4		< 5		0
1,1-Dichloropropene	< 1.6		NA		2
Carbon Tetrachloride	< 2.2		< 5		0
1,2-Dichloroethane	< 3.1		< 5		0
Benzene	< 2.2		< 5		0
Trichloroethene	< 2.2		< 5		0
1,2-Dichloropropane	< 1.8		< 5		0
Bromodichloromethane	< 2.0		< 5		0
Dibromomethane	< 3.0		NA		2
cis 1,3-Dichloro,1-propene	< 2.5		< 5		0
Toluene	< 1.9			J 2.0	3
trans 1,3-Dichloro,1-propene	< 3.6		< 5		0
1,1,2-Trichloroethane	< 3.7		< 5		0
1,2-Dibromoethane	< 3.7		NA		2
1,3-Dichloropropane	< 2.7		NA		2
Tetrachloroethene	< 1.5		< 5		0
Dibromochloromethane	< 2.3		< 5		0
Chlorobenzene	< 1.4		< 5		0
1,1,1,2-Tetrachloroethane	< 1.5		NA		2
Ethylbenzene	< 1.4	U 410		640	0
o/m/p Xylene	< 2.0	U 1400		2300	0
Styrene	< 1.4		< 5		0
Bromoform	< 3.3		< 5		0
Isopropylbenzene	< 1.5	76	NA		2

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31806 CONTRACTOR'S SAMPLE NO.: WL-1062-4

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
1,1,2,2-Tetrachloroethane	< 5.0		< 5		0
1,2,3-Trichloropropane	< 2.7		NA		2
n-Propylbenzene	< 1.4	67	NA		2
Bromobenzene	< 1.6		NA		2
1,3,5-Trimethylbenzene	< 1.5	110	NA		2
2-Chlorotoluene	< 1.7		NA		2
4-Chlorotoluene	< 1.2		NA		2
tert-Butylbenzene	< 1.6		NA		2
1,2,4-Trimethylbenzene	< 1.4	170	NA		2
sec-Butylbenzene	< 1.4	9.1	NA		2
p-Isopropyltoluene	< 1.4	34	NA		2
1,3-Dichlorobenzene	< 1.4		NA		2
1,4-Dichlorobenzene	< 1.5		NA		2
n-Butylbenzene	< 1.5		NA		2
1,2-Dichlorobenzene	< 1.6		NA		2
1,2-Dibromo-3-chloropropane	< 3.5		NA		2
1,2,4-Trichlorobenzene	< 1.9		NA		2
Hexachlorobutadiene	< 1.8		NA		2
Naphthalene	< 2.7	100	NA		2
1,2,3-Trichlorobenzene	< 2.4		NA		2

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Toluene D8 (88-110)	99	98
Dibromofluoromethane (86-118)	112	NA
4-Bromofluorobenzene (86-115)	110	105
1,2-Dichloroethane-d4	NA	106

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31806
QA FIELD ID: WOGW301XXX01XX
QA ANALYSIS DATE: 07/26/95

CONTRACTOR'S SAMPLE NO.: WL-1062-4
CONTRACTOR'S FIELD ID: WOGW301XXX01XD
CONTRACTOR'S ANALYSIS DATE: 07/22/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/13/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Phenol	< 10		< 10		0
Bis(2-chloroethyl)ether	< 10		< 10		0
2-Chlorophenol	< 10		< 10		0
1,3-Dichlorobenzene	< 10		< 10		0
1,4-Dichlorobenzene	< 10		< 10		0
1,2-Dichlorobenzene	< 10		< 10		0
2-Methylphenol	< 10		< 10		0
Bis(2-chloroisopropyl)ether	< 10		< 10		0
4-Methylphenol	< 10	J 2.0		J 1.0	0
N-Nitroso-di-n-propylamine	< 10		< 10		0
Hexachloroethane	< 10		< 10		0
Nitrobenzene	< 10		< 10		0
Isophorone	< 10		< 10		0
2-Nitrophenol	< 10		< 10		0
2,4-Dimethylphenol	< 10	50		J 8.0	3
Bis(2-chloroethoxy)methane	< 10		< 10		0
2,4-Dichlorophenol	< 25		< 10		0
1,2,4-Trichlorobenzene	< 10		< 10		0
Naphthalene	< 10	J 5.0	< 10		0
4-Chloroaniline	< 10		< 10		0
Hexachlorobutadiene	< 10		< 10		0
4-Chloro-3-methylphenol	< 10		< 10		0
2-Methylnapthalene	< 10		< 10		0
Hexachlorocyclopentadiene	< 10		< 10		0
2,4,6-Trichlorophenol	< 10		< 10		0
2,4,5-Trichlorophenol	< 25		< 25		0
2-Chloronaphthalene	< 10		< 10		0
2-Nitroaniline	< 25		< 25		0
Dimethylphthalate	< 10		< 10		0
Acenaphthylene	< 10		< 10		0
3-Nitroaniline	< 25		< 25		0
Acenaphthene	< 10	J 1.0	< 10		0
2,4-Dinitrophenol	< 10		< 25		0
4-Nitrophenol	< 25		< 25		0
Dibenzofuran	< 10		< 10		0
2,6-Dinitrotoluene	< 25		NA		2

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31806 CONTRACTOR'S SAMPLE NO.: WL-1062-4

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
2,4-Dinitrotoluene	< 10		< 10		0
Diethylphthalate	< 10		< 10		0
4-Chlorophenyl-phenylether	< 10		< 10		0
Fluorene	< 10		< 10		0
4-Nitroaniline	< 10		< 25		0
4,6-Dinitro-2-methylphenol	< 10		< 25		0
N-Nitrosodiphenylamine	< 10		< 10		0
4-Bromophenyl-phenylether	< 10		< 10		0
Hexachlorobenzene	< 10		< 10		0
Pentachlorophenol	< 25		< 25		0
Phenanthrene	< 10		< 10		0
Anthracene	< 10		< 10		0
Di-n-butylphthalate	< 10	B, J 2.0	< 10		1
Fluoranthene	< 10		< 10		0
Pyrene	< 10		< 10		0
Butylbenzylphthalate	< 10		< 10		0
3,3-Dichlorobenzidine	< 10		< 10		0
Benzo(a)anthracene	< 10		< 10		0
Bis(2ethylhexyl)phthalate	< 10	11		B 13	1
Chrysene	< 10		< 10		0
Di-n-octyl phthalate	< 10		< 10		0
Benzo(b)fluoranthene	< 10		< 10		0
Benzo(k)fluoranthene	< 10		< 10		0
Benzo(a)pyrene	< 10		< 10		0
Indeno(1,2,3-cd)pyrene	< 10		< 10		0
Dibenz(a,h)anthracene	< 10		< 10		0
Benzo(g,h,i)perylene	< 10		< 10		0
Carbazole	< 10		< 10		0

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Nitrobenzene-d5 (35-114)	82	89
2-Fluorobiphenyl (43-116)	67	101
Terphenyl-d14 (33-141)	*27	79
1,2-Dichlorobenzene-d4 (16-110)	65	NA
Phenol-d6 (10-110)	63	72
2-Fluorophenol (21-110)	60	84
2,4,6-Tribromophenol (10-123)	85	76
2-Chlorophenol-d4 (33-110)	52	NA

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31867
QA FIELD ID: WOGW202XXX01XR
QA ANALYSIS DATE: 07/27/95

CONTRACTOR'S SAMPLE NO.: WL-1075-7
CONTRACTOR'S FIELD ID: WOGW202XXX01XD
CONTRACTOR'S ANALYSIS DATE: 08/03/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/15/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Phenol	< 50	J 14	< 30		0
Bis(2-chloroethyl)ether	< 50		< 10		0
2-Chlorophenol	< 50		< 30		0
1,3-Dichlorobenzene	< 50		< 10		0
1,4-Dichlorobenzene	< 50		< 10		0
1,2-Dichlorobenzene	< 50		< 10		0
2-Methylphenol	< 50	J 42		J 26	0
Bis(2-chloroisopropyl)ether	< 50		< 10		0
4-Methylphenol	< 50	J 16		31	0
N-Nitroso-di-n-propylamine	< 50		< 10		0
Hexachloroethane	< 50		< 10		0
Nitrobenzene	< 50		< 10		0
Isophorone	< 50		< 10		0
2-Nitrophenol	< 50		< 30		0
2,4-Dimethylphenol	< 50	J 34	< 30		3
Bis(2-chloroethoxy)methane	< 50		< 10		0
2,4-Dichlorophenol	< 130		< 30		0
1,2,4-Trichlorobenzene	< 50		< 10		0
Naphthalene	< 50	170		100	0
4-Chloroaniline	< 50		< 10		0
Hexachlorobutadiene	< 50		< 10		0
4-Chloro-3-methylphenol	< 50		< 30		0
2-Methylnapthalene	< 50	110		50	0
Hexachlorocyclopentadiene	< 50		< 10		0
2,4,6-Trichlorophenol	< 50		< 30		0
2,4,5-Trichlorophenol	< 130		< 75		0
2-Chloronaphthalene	< 50		< 10		0
2-Nitroaniline	< 130		< 25		0
Dimethylphthalate	< 50		< 10		0
Acenaphthylene	< 50		< 10		0
3-Nitroaniline	< 130		< 25		0
Acenaphthene	< 50		< 10		0
2,4-Dinitrophenol	< 50		< 30		0
4-Nitrophenol	< 130		< 30		0
Dibenzofuran	< 50			J 1.0	0
2,6-Dinitrotoluene	< 130		NA		2

PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31867 CONTRACTOR'S SAMPLE NO.: WL-1075-7

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
2,4-Dinitrotoluene	< 50		< 10		0
Diethylphthalate	< 50		< 10		0
4-Chlorophenyl-phenylether	< 50		< 10		0
Fluorene	< 50			J 2.0	0
4-Nitroaniline	< 50		< 25		0
4,6-Dinitro-2-methylphenol	< 50		< 75		0
N-Nitrosodiphenylamine	< 50		< 10		0
4-Bromophenyl-phenylether	< 50		< 10		0
Hexachlorobenzene	< 50		< 10		0
Pentachlorophenol	< 130		< 75		0
Phenanthrene	< 50			J 1.0	0
Anthracene	< 50		< 10		0
Di-n-butylphthalate	< 50	B 120	< 10		1
Fluoranthene	< 50		< 10		0
Pyrene	< 50		< 10		0
Butylbenzylphthalate	< 50		< 10		0
3,3-Dichlorobenzidine	< 50		< 10		0
Benzo(a)anthracene	< 50		< 10		0
Bis(2ethylhexyl)phthalate	< 50	220		B 280	1
Chrysene	< 50		< 10		0
Di-n-octyl phthalate	< 50		< 10		0
Benzo(b)fluoranthene	< 50		< 10		0
Benzo(k)fluoranthene	< 50		< 10		0
Benzo(a)pyrene	< 50		< 10		0
Indeno(1,2,3-cd)pyrene	< 50		< 10		0
Dibenz(a,h)anthracene	< 50		< 10		0
Benzo(g,h,i)perylene	< 50		< 10		0
Carbazole	< 50		< 10		0

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Nitrobenzene-d5 (35-114)	100	98
2-Fluorobiphenyl (43-116)	66	69
Terphenyl-d14 (33-141)	43	50
1,2-Dichlorobenzene-d4 (16-110)	80	NA
Phenol-d6 (10-110)	98	71
2-Fluorophenol (21-110)	87	45
2,4,6-Tribromophenol (10-123)	82	67
2-Chlorophenol-d4 (33-110)	92	NA

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31751
QA FIELD ID: WOGW704XXX01XR
QA ANALYSIS DATE: 07/21/95

CONTRACTOR'S SAMPLE NO.: WL-1045-2
CONTRACTOR'S FIELD ID: WOGW704XXX01XD
CONTRACTOR'S ANALYSIS DATE: 07/24/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/11/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Phenol	< 100		< 100		0
Bis(2-chloroethyl)ether	< 100		< 100		0
2-Chlorophenol	< 100		< 100		0
1,3-Dichlorobenzene	< 100		< 100		0
1,4-Dichlorobenzene	< 100		< 100		0
1,2-Dichlorobenzene	< 100		< 100		0
2-Methylphenol	< 100		< 100		0
Bis(2-chloroisopropyl)ether	< 100		< 100		0
4-Methylphenol	< 100		< 100		0
N-Nitroso-di-n-propylamine	< 100		< 100		0
Hexachloroethane	< 100		< 100		0
Nitrobenzene	< 100		< 100		0
Isophorone	< 100		< 100		0
2-Nitrophenol	< 100		< 100		0
2,4-Dimethylphenol	< 100		< 100		0
Bis(2-chloroethoxy)methane	< 100		< 100		0
2,4-Dichlorophenol	< 250		< 100		0
1,2,4-Trichlorobenzene	< 100		< 100		0
Naphthalene	< 100	260		450	0
4-Chloroaniline	< 100		< 100		0
Hexachlorobutadiene	< 100		< 100		0
4-Chloro-3-methylphenol	< 100		< 100		0
2-Methylnapthalene	< 100	300		250	0
Hexachlorocyclopentadiene	< 100		< 100		0
2,4,6-Trichlorophenol	< 100		< 100		0
2,4,5-Trichlorophenol	< 250		< 250		0
2-Chloronaphthalene	< 100		< 100		0
2-Nitroaniline	< 250		< 250		0
Dimethylphthalate	< 100		< 100		0
Acenaphthylene	< 100		< 100		0
3-Nitroaniline	< 250		< 250		0
Acenaphthene	< 100		< 100		0
2,4-Dinitrophenol	< 100		< 250		0
4-Nitrophenol	< 250		< 250		0
Dibenzofuran	< 100			J 7.0	0
2,6-Dinitrotoluene	< 250		NA		2

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31751 CONTRACTOR'S SAMPLE NO.: WL-1045-2

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
2,4-Dinitrotoluene	< 100		< 100		0
Diethylphthalate	< 100		< 100		0
4-Chlorophenyl-phenylether	< 100		< 100		0
Fluorene	< 100			J 21	0
4-Nitroaniline	< 100		< 250		0
4,6-Dinitro-2-methylphenol	< 100		< 250		0
N-Nitrosodiphenylamine	< 100		< 100		0
4-Bromophenyl-phenylether	< 100		< 100		0
Hexachlorobenzene	< 100		< 100		0
Pentachlorophenol	< 250		< 250		0
Phenanthrene	< 100			J 8.0	0
Anthracene	< 100		< 100		0
Di-n-butylphthalate	< 100	B, J 34	< 100		0
Fluoranthene	< 100		< 100		0
Pyrene	< 100		< 100		0
Butylbenzylphthalate	< 100		< 100		0
3,3-Dichlorobenzidine	< 100		< 100		0
Benzo(a)anthracene	< 100		< 100		0
Bis(2ethylhexyl)phthalate	< 100	440		B 3300	1
Chrysene	< 100		< 100		0
Di-n-octyl phthalate	< 100	J 21		J 25	0
Benzo(b)fluoranthene	< 100		< 100		0
Benzo(k)fluoranthene	< 100		< 100		0
Benzo(a)pyrene	< 100		< 100		0
Indeno(1,2,3-cd)pyrene	< 100		< 100		0
Dibenz(a,h)anthracene	< 100		< 100		0
Benzo(g,h,i)perylene	< 100		< 100		0
Carbazole	< 100		< 100		0

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Nitrobenzene-d5 (35-114)	DO	*140
2-Fluorobiphenyl (43-116)	53	74
Terphenyl-d14 (33-141)	39	81
1,2-Dichlorobenzene-d4 (16-110)	42	NA
Phenol-d6 (10-110)	44	86
2-Fluorophenol (21-110)	71	84
2,4,6-Tribromophenol (10-123)	89	112
2-Chlorophenol-d4 (33-110)	72	NA

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

COMPARISON OF QA & CONTRACTOR RESULTS
PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31753
QA FIELD ID: WOBSXX1XXX01XR
QA ANALYSIS DATE: 07/20/95

CONTRACTOR'S SAMPLE NO.: WL-1045-4
CONTRACTOR'S FIELD ID: WOBSXX1XXX01XX
CONTRACTOR'S ANALYSIS DATE: 07/18/95

MATERIAL DESCRIPTION: WATER
DATE SAMPLED: 07/10/95
UNITS: ug/L

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
Phenol	< 10			J 1.0	0
Bis(2-chloroethyl)ether	< 10		< 10		0
2-Chlorophenol	< 10		< 10		0
1,3-Dichlorobenzene	< 10		< 10		0
1,4-Dichlorobenzene	< 10		< 10		0
1,2-Dichlorobenzene	< 10		< 10		0
2-Methylphenol	< 10		< 10		0
Bis(2-chloroisopropyl)ether	< 10		< 10		0
4-Methylphenol	< 10		< 10		0
N-Nitroso-di-n-propylamine	< 10		< 10		0
Hexachloroethane	< 10		< 10		0
Nitrobenzene	< 10		< 10		0
Isophorone	< 10		< 10		0
2-Nitrophenol	< 10		< 10		0
2,4-Dimethylphenol	< 10		< 10		0
Bis(2-chloroethoxy)methane	< 10		< 10		0
2,4-Dichlorophenol	< 25		< 10		0
1,2,4-Trichlorobenzene	< 10		< 10		0
Naphthalene	< 10		< 10		0
4-Chloroaniline	< 10		< 10		0
Hexachlorobutadiene	< 10		< 10		0
4-Chloro-3-methylphenol	< 10		< 10		0
2-Methylnapthalene	< 10		< 10		0
Hexachlorocyclopentadiene	< 10		< 10		0
2,4,6-Trichlorophenol	< 10		< 10		0
2,4,5-Trichlorophenol	< 25		< 25		0
2-Chloronaphthalene	< 10		< 10		0
2-Nitroaniline	< 25		< 25		0
Dimethylphthalate	< 10		< 10		0
Acenaphthylene	< 10		< 10		0
3-Nitroaniline	< 25		< 25		0
Acenaphthene	< 10		< 10		0
2,4-Dinitrophenol	< 10		< 25		0
4-Nitrophenol	< 25		< 25		0
Dibenzofuran	< 10		< 10		0
2,6-Dinitrotoluene	< 25		NA		2

PROJECT: WESTOVER AFB

QA SAMPLE NO.: 31753 CONTRACTOR'S SAMPLE NO.: WL-1045-4

PARAMETER	QA LAB MDL	RESULTS QA LAB	CONTRACTOR MDL	RESULTS CONTRACTOR	COMPARISON CODE
2,4-Dinitrotoluene	< 10		< 10		0
Diethylphthalate	< 10		< 10		0
4-Chlorophenyl-phenylether	< 10		< 10		0
Fluorene	< 10		< 10		0
4-Nitroaniline	< 10		< 25		0
4,6-Dinitro-2-methylphenol	< 10		< 25		0
N-Nitrosodiphenylamine	< 10		< 10		0
4-Bromophenyl-phenylether	< 10		< 10		0
Hexachlorobenzene	< 10		< 10		0
Pentachlorophenol	< 25		< 25		0
Phenanthrene	< 10		< 10		0
Anthracene	< 10		< 10		0
Di-n-butylphthalate	< 10	B 42	< 10		1
Fluoranthene	< 10		< 10		0
Pyrene	< 10		< 10		0
Butylbenzylphthalate	< 10		< 10		0
3,3-Dichlorobenzidine	< 10		< 10		0
Benzo(a)anthracene	< 10		< 10		0
Bis(2ethylhexyl)phthalate	< 10			B 33	1
Chrysene	< 10		< 10		0
Di-n-octyl phthalate	< 10		< 10		0
Benzo(b)fluoranthene	< 10		< 10		0
Benzo(k)fluoranthene	< 10		< 10		0
Benzo(a)pyrene	< 10		< 10		0
Indeno(1,2,3-cd)pyrene	< 10		< 10		0
Dibenz(a,h)anthracene	< 10		< 10		0
Benzo(g,h,i)perylene	< 10		< 10		0
Carbazole	< 10		< 10		0

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Nitrobenzene-d5 (35-114)	58	80
2-Fluorobiphenyl (43-116)	65	77
Terphenyl-d14 (33-141)	56	74
1,2-Dichlorobenzene-d4 (16-110)	57	NA
Phenol-d6 (10-110)	53	81
2-Fluorophenol (21-110)	46	76
2,4,6-Tribromophenol (10-123)	63	84
2-Chlorophenol-d4 (33-110)	64	NA

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

SEE APPENDIX B FOR KEY TO COMMENTS

REVISED ON 9

CENED-ED-GL
SAMPLE CONTAINER RECEIPT FORM

PROJECT: Westover WAFB - Monitoring Program Project #: E0126
Work Order #: _____

Container received on 7.12.95 and inspected on 7.12.95 by: Cheryl Noonan

1. Temperature 2.0 °C. Temperature taken on 7.12.95 (date)

2. Shipper _____ Shipper # 4702486681
(USM, UPS, DHL, (FEDEX) P/C, AIR EXP, HAND-DELIVERED)

3. Container type (Cooler) box, envelope, etc.) _____

4. Were custody seals on outside of container? N/A (Yes) No
How many & where: 1 Around Cooler Lid, seal date: 7.11.95, seal name: Signature

5. Were custody papers taped to lid inside container? N/A (Yes) No

6. Did not show direct transfer of Custody to Shipper.
Custody papers properly filled out? (ink, signed, etc.) (Yes) No

7. Was project and project # identifiable from custody papers? (Yes) No

8. Did you sign custody papers in appropriate place? (Yes) No

9. Did you attach shipper's packing form to this form? N/A (Yes) No

10. Packing material (peanuts, vermiculite, (bubble wrap) paper, cans, other)

11. Were all samples sealed in separate plastic bags? N/A Yes (No)

12. Did all samples arrive in good condition? (Yes) No

13. Sample labels complete? (#, date, analysis, preservation, sign.) (Yes) No

14. Were correct sample containers used for tests indicated? N/A (Yes) No

15. Were correct preservatives used? (TM pH___, CN- pH___) (N/A) Yes No
(TOC pH___, NUTRIENT pH___, TOX pH___, TPH pH___, OTHER pH___)

16. Were VOA vials bubble-free (H_2O) or no headspace (soil)? N/A (Yes) No

17. Was sufficient amount of sample sent in each container? (Yes) No

18. Did all sample labels agree with custody papers? (Yes) No

19. Were air volumes noted for air samples? (N/A) Yes No

20. Were initial weights noted for pre-weighed filters? (N/A) Yes No

Discrepancies: _____

CHAIN OF CUSTODY RECORD

Page ___ of ___

PROJECT NO. E0126

PROJECT NAME Westover AFB

SAMPLERS (SIGNATURE) M. Lounsbury, S. ALLOCCA, C. Slocum

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	* SAMPLE TYPE: 40 ml Vials	1 L AG									REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
31751	7/11/95	1600	X		WOGW704XXXX01XR	4	2	2									water
31752	7/11/95	700	X		WO BTXX1XXX01XR	2	2										
31753	7/10/95	1545	X		WO BSXX1XXX01XR	4	2	2									
31754	7/10/95	1700	X		WO GW102XXX01XR	2	2										

* Analysis written on next sheet c.N

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	7/11/95 1200			7.12.95 1200	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	
				Fedex: 4702486681	

ABB Environmental Services c.

OH-62

ANALYSIS REQUEST FORM

Date Received
Lab Location
Results Due
Client I.D. No.

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Client Information: Name Westover AFB
Company ABB-ES
Mailing Adddress 110 Free Street
Portland, Me 04101

Purchase Order/Job Number 7452-04 C.W. E0126

Type of Sample Water
List Any Hazards Fuel

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures
WO GW704 XXX01XR Has free product floating on the surface of the water

Where to Send Report ☐ Directly to Client
☒ ABB - Name Mark Seelen

Analyses Requested By: Mark Seelen
Technical Project Professional

Approved By: Mark Seelen
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required	PID
WO GW704 XXX01XR		7/11/95	M. [illegible]	VOC-8240	32
WO BS XXX XXX01XR		7/10/95	M. [illegible]	SVOU	0
WO BT~~XX~~1 XXX01XR		7/11/95	M. [illegible]	VOC-8240	0
WO BW102 XXX01XR		7/10/95	M. [illegible]	~~SVOU~~	0

ABB Environmental Services, Inc.

OH-62

Page ____ of ____

CENED-ED-GL
SAMPLE CONTAINER RECEIPT FORM

REVIEW

PROJECT: WAFB Monitoring Program Project #: EO126
Work Order #:

Container received on 7.14.95 and inspected on 7.14.95 by: Chuck Alverson

1. Temperature 5.4 °C. Temperature taken on 7.14.95 (date)

2. Shipper _____ Shipper # 4702486714
(USM, UPS, DHL, (FEDEX), P/C, AIR EXP, HAND-DELIVERED)

3. Container type ((Cooler), box, envelope, etc.) _____

4. Were custody seals on outside of container? N/A (Yes) No
How many & where: 2 Around Cooler, Lid, seal date: 7.13.95, seal name: signature

5. Were custody papers taped to lid inside container? N/A (Yes) No

Did not show direct transfer of custody to shipper.

6. Custody papers properly filled out? (ink, signed, etc.) (Yes) No

7. Was project and project # identifiable from custody papers? (Yes) No

8. Did you sign custody papers in appropriate place? (Yes) No

9. Did you attach shipper's packing form to this form? N/A (Yes) No

10. Packing material (peanuts, vermiculite, (bubble wrap), paper, cans, other)

11. Were all samples sealed in separate plastic bags? N/A (Yes) No

12. Did all samples arrive in good condition? (Yes) ~~No~~

13. Sample labels complete? (#, date, analysis, preservation, sign.) (Yes) No

14. Were correct sample containers used for tests indicated? N/A (Yes) No

15. Were correct preservatives used? (TM pH___, CN- pH___) (N/A) Yes No
(TOC pH___, NUTRIENT pH___, TOX pH___, TPH pH___, OTHER pH___)

16. Were VOA vials bubble-free (H_2O) or no headspace (soil)? N/A (Yes) No

17. Was sufficient amount of sample sent in each container? (Yes) No

18. Did all sample labels agree with custody papers? (Yes) No

19. Were air volumes noted for air samples? (N/A) Yes No

20. Were initial weights noted for pre-weighed filters? (N/A) Yes No

Discrepancies: _____

CHAIN OF CUSTODY RECORD

Page ___ of ___

PROJECT NO.: E0126

PROJECT NAME: Westover AFB

SAMPLERS (SIGNATURE): M. Lounsbury, S. ALLOCCA, C. SLocum

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: 40 ml Vial	SAMPLE TYPE: 1 CAC *									REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
31806	7/13/95	730		X	WOGW301XXX01XX	4	2	2									Water
31807	7/12/95	1660		X	WOBtXX2XXX01XX	2	2										↓
31808	7/12/95	1600		X	WOGW307XXX01XX	2	2										↓

*Analysis written on next sheet c.n

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	7/13/95 | 1100			7/14/95 | 1200	[signature]
	|			|	

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS
	|		|	Fed # 470 248 6214

ABB Environmental Services, Inc.

OH-62

ANALYSIS REQUEST FORM

Date Received
Lab Location
Results Due
Client I.D. No.

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample: water
List Any Hazards: fuel

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures

Client Information: Name: Westover AFB
Company: ABB - ES
Mailing Adddress: 110 Free Street
Portland, Me 04101

Purchase Order/Job Number: E0126

Where to Send Report ☐ Directly to Client
☒ ABB - Name: Mark Seelen

Analyses Requested By: Mark Seelen
Technical Project Professional

Approved By: Mark Seelen
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required	PID
WO GW307XXX01XX		7/12/95	[illegible]	VOC	160
WO RtXX2XXX01XX		7/12/95		VOC	0
WO GW 301XXX01XX		7/13/95		VOC, SVOC	9

ABB Environmental Services, Inc.

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REVISED ON 9

CENED-ED-GL
SAMPLE CONTAINER RECEIPT FORM

JECT: Westover AFB Monitoring Program Project #: E0126
Work Order #:

Container received on 7-18-95 and inspected on 7-18-95 by: Cheryl Alamar

1. Temperature 5.9 °C. Temperature taken on 7-18-95 (date)

2. Shipper _____ Shipper # 2891808717
(USM, UPS, DHL, FEDEX, P/C, AIR EXP, HAND-DELIVERED)

3. Container type (Cooler, box, envelope, etc.) _____

4. Were custody seals on outside of container? N/A Yes No
How many & where: 2 Around Cooler Lid, seal date: 7-17-95, seal name: Signature

5. Were custody papers taped to lid inside container? N/A Yes No
Did not show direct transfer of Custody to shipper.

6. Custody papers properly filled out? (ink, signed, etc.) Yes No

7. Was project and project # identifiable from custody papers? Yes No

8. Did you sign custody papers in appropriate place? Yes No

9. Did you attach shipper's packing form to this form? N/A Yes No

10. Packing material (peanuts, vermiculite, bubble wrap, paper, cans, other)

11. Were all samples sealed in separate plastic bags? N/A Yes No

12. Did all samples arrive in good condition? Yes No

13. Sample labels complete? (#, date, analysis, preservation, sign.) Yes No

14. Were correct sample containers used for tests indicated? N/A Yes No

15. Were correct preservatives used? (TM pH___, CN- pH___) N/A Yes No
(TOC pH___, NUTRIENT pH___, TOX pH___, TPH pH___, OTHER pH___)

16. Were VOA vials bubble-free (H_2O) or no headspace (soil)? N/A Yes No
Small bubble found in vial

17. Was sufficient amount of sample sent in each container? Yes No

18. Did all sample labels agree with custody papers? Yes No

19. Were air volumes noted for air samples? N/A Yes No

20. Were initial weights noted for pre-weighed filters? N/A Yes No

Discrepancies: _____

CHAIN OF CUSTODY RECORD

Page ___ of ___

PROJECT NO.: E0126

PROJECT NAME: Westover AFB

SAMPLERS (SIGNATURE): M. Lounsbury, S. ALLOCCA, C. SLocum

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: 40ml Vial	SAMPLE TYPE: 1LAG *										REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
31867	7/15/95	745		X	WOGW202XXX01XR	4	2	2										water
31868	7/15/95	~~7/15~~ MAL		X	WOGWBtXX4XXX01XR	2	2											↓
		715																

* Analysis written on next sheet cw 7.18.95

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	7/17/95 1130			7.18.95 1200	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

ABB Environmental Services, Inc.

OH-62

ANALYSIS REQUEST FORM

Date Received
Lab Location
Results Due
Client I.D. No.

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample: Water
List Any Hazards

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures

Client Information: Name: Westover
Company: ABB-ES
Mailing Adddress: 110 Free Street
Portland, ME 04101
Purchase Order/Job Number: 7452-04

Where to Send Report: ☐ Directly to Client ☒ ABB - Name: Mark Seelen

Analyses Requested By: Mark Seelen
Technical Project Professional

Approved By: Mark Seelen
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required	PID
W06GW202XXX01XR		7/15/95	[illegible]	VOC, SVOC	165
W06GW BTXX4XX01XR		7/15/95	[illegible]	VOC	—

ABB Environmental Services, Inc.

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C-2 1994 - 1996 QUALITY ASSURANCE REPORT

U.S. Army Corps of Engineers

ENVIRONMENTAL LABORATORY

Hubbardston MA 01452

RECORD OF TRANSMITTAL

DATE: 15 November 1996

TO: Director of Engineering,
ATTN: Mr. Gary LaCroix, (CENED-ED-EH)

SUBJECT: Transmittal of Analytical Data Report for WAFB Monitoring Program

1. Enclosed is the Analytical Data Report for the above project.

2. If you have any questions concerning this report, please direct them to Mr. David Lubianez at 508-928-4238.

U.S. Army Corps of Engineers

ENVIRONMENTAL LABORATORY

Hubbardston MA 01452

WAFB MONITORING PROGRAM
(E0126)

U.S. Army Corps of Engineers
New England Division
Environmental Laboratory
Hubbardston, MA 01452
(508) 928-4238

Date: November 15, 1996

Michael J. Carroll
Director
Environmental Laboratory

TABLE OF CONTENTS

1. Case Summary

2. Sample Listing

3. Laboratory Data

4. Quality Assurance Data

5. Chain of Custody

6. Cooler Receipt Form

WAFB - MONITORING PROGRAM

1. Eighteen water samples were received for the above project on 23 September 1994, 12 July 1995, 14 July 1995, 17 July 1995, 18 July 1995, and 11 July 1996. The correct sample containers and sample preservation procedures were followed unless otherwise indicated on the cooler receipt form. A copy of the chain-of-custody records are enclosed for reference.

2. The following analyses were performed in-house:

Analysis	EPA Method
Water Samples	
Volatile Organics	8260A

3. The following analyses were performed by our contractor laboratory:

Analysis	EPA Method
Water Samples	
Semi-Volatile Organics	3510/8270

Method References: Test Methods for Evaluating Solid Waste, SW846

Contract Laboratory: ^E3I Environmental Laboratory
35 Medford Street
Somerville, MA 02143

GTEL Environmental Laboratories, Inc.
Meadowbrook Industrial Park
Milford, NH 03055

Analytical Anomalies:

Volatile Organics:

Notes:
A. C-O-Cs requested "VOC" analyses (no method specified), 8260 analyses, and a few 8240 analyses. Method 8260 was performed.

B. Both contractor laboratories (GTEL and Inchscape) for VOA and BNA results reported "J" values which are numerically less than the "negatives" for VOA and BNA results. Apparently, the default values provided for negatives are based on the reporting limit (LRLs/ PQLs), rather than on the MDLs.

1.Analysis Date 10/06/94--1,2-dichloroethane-d4 (surrogate) was out of control limits high in the following samples: C-27532, C-27533, and method blank. Positive bias for acetone and methylene chloride is to be expected for these samples. BS/BSD was out of control limits high for accuracy for benzene and trichloroethene, without bias to results since no analytes were detected in this region of the corresponding sample chromatograms.

2. Analysis Date 10/07/94--1,2-dichloroethane-d4 (surrogate) was out of control limits high in the following samples; C-27534, C-27535, C-27536, and method blank. Positive bias for acetone and methylene chloride is to be expected for these samples. In addition, these same three samples were analyzed beyond holding time as a result of shipping constraints (to contractor); this situation could cause slightly low bias for these data reports.

3. Analysis Date 07/13&14/95--Method blanks were out of control high for all surrogates (7/13) and for all but toluene-d8 (7/14). No feasible technical explanation exists, nevertheless, for the only analyte present, i.e., methylene chloride, results would be biased high. Samples D-31752, D-31753, and D-31754 showed out of control limits high for the surrogate dibromoflurometh ane, possibly resulting in positive bias for methylene chloride data also. Samples D-31751 and D-31807 both produced out of control limits high recoveries for all surrogates; this could have been due to the presence of large concentrations of non-analytes (i.e. branched and normal alkanes in the C10-C14 range) for sample D-31751, which could result in high bias for all reported analytes. Similar high bias could result for naphthalene and methylene chloride data for sample D-31807.

4. Analysis Date 07/20/95--Sample D-31808- toluene-d8 (surrogate) was just out of control limits high such that negligible bias would be expected.(This sample contained large concentrations of non-analytes as noted on the report sheets, indicating the presence of mineral spirits/petroleum ether/ligroin.) Sample D-31867- 4-BFB (surrogate) was out of control limits low, possibly due to high concentrations of analytes- low bias for all later eluting analytes could be anticipated. Both sample D-31868 and method blank produced out of control limits high for surrogate toluene-d8- but since no analytes were reported in either for this portion of their chromatograms, no data bias is anticipated. The BS/BSD for precision was out of control for benzene, trichloroethene, and toluene, however the magnitude of the outage is of sufficiently small magnitude such that sample precision is marginally affected.

Semi-Volatile Organics performed by our contract laboratory

Since E3I is no longer around, no explanations can be provided for the following out of control situations:

1. Extraction Date 07/20-95--Sample D-31806 - surrogate terphenyl-d14 was out of control limits low-results for later eluting neutral analytes may be slightly biased low.

2. Extraction Date 07/20/95--MSB/MSBD (matrix spike blank/matrix spike blank duplicate) - 4-Nitrophenol was out of control limits high (88% vs. 10-80%)- this situation has no effect on sample results.

3. Chain-of-custody requested Volatile Organics 8240 but reported analysis method 8260A. Also there was no project information provided.

Internal Flags:

J - Estimated value- analyte detected is < the LRL but > MDL.
E - Above the Upper Calibration Limit.
B - Analyte also detected in the Method Blank.

2. Sample Listing

WAFB - MONITORING PROGRAM
E 0126
SAMPLE LISTING

ENV NO.	FIELD DESCRIPTION	SAMPLE DATE	MATRIX
C-27532	WOGW301XXX02XR	9/22/94	WATER
C-27533	WOGW303XXX02XR	09/22/94	WATER
C-27534	WOGW206IXX02XR	09/21/94	WATER
C-27535	WOGW203XXX02XR	09/21/94	WATER
C-27536	WOQT002XXX02XR	09/21/94	WATER
D-31751	WOGW704XXX01XR	07/11/95	WATER
D-31752	WOBTXX1XXX01XR	07/11/95	WATER
D-31753	WOBSXX1XXX01XR	07/10/95	WATER
D-31754	WOGW102XXX01XR	07/10/95	WATER
D-31806	WO GW301XXX01XX	07/13/95	WATER
D-31807	WO BTXX2XXX01XX	07/12/95	WATER
D-31808	WO GW307XXX01XX	07/12/95	WATER
D-31867	WO GW202XXX01XR	07/15/95	WATER
D-31868	WO GWBTXX4XXY01XR	07/15/95	WATER
E-34782	WOBTXX2XXX96XR	07/09/96	WATER
E-34783	WOBSXX2XXX96XR	07/09/96	WATER
E-34784	WOMW202XXX96XR	07/11/96	WATER
E-34785	WOMM201XXX96XR	07/11/96	WATER

CHAIN OF CUSTODY RECORD

Page ___ of ___

PROJECT NO.: E0126

PROJECT NAME: Westover AFB

SAMPLERS (SIGNATURE): M. Lounsbury, S. ALLOCCA, C. SLocum

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: 40 ml Vial	REMARKS: INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
	7/13/95	1600		X	WOBtxx3xxx01xR	2	2	water
	7/13/95	1615		X	WOGW507xxx01xR	2	2	water

23.0 Samples Returned

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	7/13/95 1100			7-17-95 1200	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	
				Fedx # 4702486784 0	

ABB Environmental Se[illegible]es, Inc.

OH-62

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

July 13, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
C-27532	WOGW301XXX02XR	1.00	Chloromethane	<	9.6	ug/L	09/22/94	10/06/94
			Vinyl chloride	<	14	ug/L		
			Bromomethane	<	16	ug/L		
			Chloroethane	<	15	ug/L		
			1,1-Dichloroethene	<	0.58	ug/L		
			Acetone	U B	260	ug/L		
			Carbon disulfide	<	0.60	ug/L		
			Methylene chloride	B	23	ug/L		
			trans-1,2-Dichloroethene	<	0.64	ug/L		
			1,1-Dichloroethane	<	0.53	ug/L		
			cis 1,2-Dichloroethene	<	0.52	ug/L		
			Chloroform	<	0.59	ug/L		
			1,2-Dichloroethane	<	0.41	ug/L		
			2-Butanone	<	1.6	ug/L		
			1,1,1-Trichloroethane	<	0.39	ug/L		
			Carbon Tetrachloride	<	0.36	ug/L		
			Benzene	<	0.63	ug/L		
			Trichloroethene	<	0.59	ug/L		
			1,2-Dichloropropane	<	0.45	ug/L		
			Bromodichloromethane	<	0.38	ug/L		
			cis 1,3-Dichloropropene	<	0.48	ug/L		
			trans 1,3-Dichloropropene	<	0.60	ug/L		
			4-Methyl-2-pentanone	<	1.5	ug/L		
			Toluene	J	0.60	ug/L		
			1,1,2-Trichloroethane	<	0.62	ug/L		
			Tetrachloroethene	<	0.46	ug/L		
			2-Hexanone	<	1.2	ug/L		
			Dibromochloromenthane	<	0.57	ug/L		
			Chlorobenzene	<	0.75	ug/L		
			Ethylbenzene	U	360	ug/L		
			m/p Xylene	U	700	ug/L		
			o-Xylene	U	240	ug/L		
			Styrene	<	0.34	ug/L		
			Bromoform	<	0.98	ug/L		
			1,1,2,2-Tetrachloroethane	<	0.86	ug/L		
			SURROGATE RECOVERIES:			ug/L		
		1.00	1,2-Dichloroethane-D4 (76-114)		140 *	%		
			Toluene-D8 (88-110)		91	%		
			4-Bromofluorobenzene (86-115)		86	%		

* - Out of control limits.

Analyzed By: _____

Reviewed By: Mark R. Koenig

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

July 14, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
C-27533	WOGW303XXX02XR	1.00	Chloromethane	<	9.6	ug/L	09/22/94	10/06/94
			Vinyl chloride	<	14	ug/L		
			Bromomethane	<	16	ug/L		
			Chloroethane	<	15	ug/L		
			1,1-Dichloroethene	<	0.58	ug/L		
			Acetone	B	60	ug/L		
			Carbon disulfide	<	0.60	ug/L		
			Methylene chloride	B	21	ug/L		
			trans-1,2-Dichloroethene	<	0.64	ug/L		
			1,1-Dichloroethane	<	0.53	ug/L		
			cis 1,2-Dichloroethene	<	0.52	ug/L		
			Chloroform	<	0.59	ug/L		
			1,2-Dichloroethane	<	0.41	ug/L		
			2-Butanone	<	1.6	ug/L		
			1,1,1-Trichloroethane	<	0.39	ug/L		
			Carbon Tetrachloride	<	0.36	ug/L		
			Benzene	<	0.63	ug/L		
			Trichloroethene	<	0.59	ug/L		
			1,2-Dichloropropane	<	0.45	ug/L		
			Bromodichloromethane	<	0.38	ug/L		
			cis 1,3-Dichloropropene	<	0.48	ug/L		
			trans 1,3-Dichloropropene	<	0.60	ug/L		
			4-Methyl-2-pentanone	<	1.5	ug/L		
			Toluene	J	0.97	ug/L		
			1,1,2-Trichloroethane	<	0.62	ug/L		
			Tetrachloroethene	<	0.46	ug/L		
			2-Hexanone	<	1.2	ug/L		
			Dibromochloromenthane	<	0.57	ug/L		
			Chlorobenzene	<	0.75	ug/L		
			Ethylbenzene		59	ug/L		
			m/p Xylene		190	ug/L		
			o-Xylene		65	ug/L		
			Styrene	<	0.34	ug/L		
			Bromoform	<	0.98	ug/L		
			1,1,2,2-Tetrachloroethane	<	0.86	ug/L		
			SURROGATE RECOVERIES:					
		1.00	1,2-Dichloroethane-D4 (76-114)		* 133	%		
			Toluene-D8 (88-110)		98	%		
			4-Bromofluorobenzene (86-115)		90	%		

* - Out of control limits.

Analyzed By: _____

Reviewed By: Mark R. Koenig

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANICS - METHOD 8260

Field Description	Analyte	Dilution Factor		Result	Units	Date Analyzed
METHOD BLANK	Chloromethane	1.0	<	9.6	ug/L	10/06/94
	Vinyl chloride		<	14	ug/L	
	Bromomethane		<	16	ug/L	
	Chloroethane		<	15	ug/L	
	1,1-Dichloroethene		<	0.58	ug/L	
	Acetone			8.5	ug/L	
	Carbon disulfide		<	0.60	ug/L	
	Methylene chloride			22	ug/L	
	trans 1,2-Dichloroethene		<	0.64	ug/L	
	1,1-Dichloroethane		<	0.53	ug/L	
	cis 1,2-Dichloroethene		<	0.52	ug/L	
	Chloroform		<	0.59	ug/L	
	1,2-Dichloroethane		<	0.41	ug/L	
	2-Butanone		<	1.6	ug/L	
	1,1,1-Trichloroethane		<	0.39	ug/L	
	Carbon tetrachloride		<	0.36	ug/L	
	Benzene		<	0.63	ug/L	
	Trichloroethane		<	0.59	ug/L	
	1,2-Dichloropropane		<	0.45	ug/L	
	Bromodichloromethane		<	0.38	ug/L	
	cis-1,3-Dichloropropene		<	0.48	ug/L	
	trans-1,3-Dichloropropene		<	0.60	ug/L	
	4-Methyl-2-pentanone		<	1.5	ug/L	
	Toluene		<	0.58	ug/L	
	1,1,2-Trichloroethane		<	0.62	ug/L	
	Tetrachloroethene		<	0.46	ug/L	
	2-Hexanone		<	1.2	ug/L	
	Dibromochloromethane		<	0.57	ug/L	
	Chlorobenzene		<	0.75	ug/L	
	Ethylbenzene		<	0.56	ug/L	
	m/p Xylene		<	1.1	ug/L	
	o-Xylene		<	0.37	ug/L	
	Styrene		<	0.34	ug/L	
	Bromoform		<	0.98	ug/L	
	1,1,2,2-Tetrachloroethane		<	0.86	ug/L	
	SURROGATE RECOVERIES: (%)					
	1,2-Dichloroethane-d4 (76-114)			133 *	%	
	Toluene-d8 (88-110)			102	%	
	p-bromofluorobenzene (86-115)			91	%	

* - Out of control limits.

Analyzed By: 11.14.96

Approved By: 11-14-96

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260

July 14, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
C-27534	WDGW206IXX02XR	1.00	Chloromethane	<	9.6	ug/L	09/21/94	10/07/94
			Vinyl chloride	<	14	ug/L		
			Bromomethane	<	16	ug/L		
			Chloroethane	<	15	ug/L		
			1,1-Dichloroethene	<	0.58	ug/L		
			Acetone	B	44	ug/L		
			Carbon disulfide	<	0.60	ug/L		
			Methylene chloride	B	27	ug/L		
			trans-1,2-Dichloroethene	<	0.64	ug/L		
			1,1-Dichloroethane	<	0.53	ug/L		
			cis 1,2-Dichloroethene	<	0.52	ug/L		
			Chloroform	<	0.59	ug/L		
			1,2-Dichloroethane	<	0.41	ug/L		
			2-Butanone	<	1.6	ug/L		
			1,1,1-Trichloroethane	<	0.39	ug/L		
			Carbon Tetrachloride	<	0.36	ug/L		
			Benzene		2.6	ug/L		
			Trichloroethene	<	0.59	ug/L		
			1,2-Dichloropropane	<	0.45	ug/L		
			Bromodichloromethane	<	0.38	ug/L		
			cis 1,3-Dichloropropene	<	0.48	ug/L		
			trans 1,3-Dichloropropene	<	0.60	ug/L		
			4-Methyl-2-pentanone	<	1.5	ug/L		
			Toluene	J	1.1	ug/L		
			1,1,2-Trichloroethane	<	0.62	ug/L		
			Tetrachloroethene	<	0.46	ug/L		
			2-Hexanone	<	1.2	ug/L		
			Dibromochloromenthane	<	0.57	ug/L		
			Chlorobenzene	<	0.75	ug/L		
			Ethylbenzene	U	570	ug/L		
			m/p Xylene	U	500	ug/L		
			o-Xylene		4.2	ug/L		
			Styrene	<	0.34	ug/L		
			Bromoform	<	0.98	ug/L		
			1,1,2,2-Tetrachloroethane	<	0.86	ug/L		
			SURROGATE RECOVERIES:			ug/L		
		1.00	1,2-Dichloroethane-D4 (76-114)		143	* %		
			Toluene-D8 (88-110)		97	%		
			4-Bromofluorobenzene (86-115)		90	%		

* - Out of control limits.

Analyzed By: _____

Approved By: Mark R. Kreuz, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260

July 14, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
C-27535	WOGW203XXXO2XR	1.00	Chloromethane	<	9.6	ug/L	09/21/94	10/07/94
			Vinyl chloride	<	14	ug/L		
			Bromomethane	<	16	ug/L		
			Chloroethane	<	15	ug/L		
			1,1-Dichloroethene	<	0.58	ug/L		
			Acetone	B	8.9	ug/L		
			Carbon disulfide	<	0.60	ug/L		
			Methylene chloride	B	29	ug/L		
			trans-1,2-Dichloroethene	<	0.64	ug/L		
			1,1-Dichloroethane	<	0.53	ug/L		
			cis 1,2-Dichloroethene	<	0.52	ug/L		
			Chloroform	<	0.59	ug/L		
			1,2-Dichloroethane	<	0.41	ug/L		
			2-Butanone	<	1.6	ug/L		
			1,1,1-Trichloroethane	<	0.39	ug/L		
			Carbon Tetrachloride	<	0.36	ug/L		
			Benzene	<	0.63	ug/L		
			Trichloroethene	<	0.59	ug/L		
			1,2-Dichloropropane	<	0.45	ug/L		
			Bromodichloromethane	<	0.38	ug/L		
			cis 1,3-Dichloropropene	<	0.48	ug/L		
			trans 1,3-Dichloropropene	<	0.60	ug/L		
			4-Methyl-2-pentanone	<	1.5	ug/L		
			Toluene	<	0.58	ug/L		
			1,1,2-Trichloroethane	<	0.62	ug/L		
			Tetrachloroethene	<	0.46	ug/L		
			2-Hexanone	<	1.2	ug/L		
			Dibromochloromenthane	<	0.57	ug/L		
			Chlorobenzene	<	0.75	ug/L		
			Ethylbenzene	J	1.5	ug/L		
			m/p Xylene	J	1.5	ug/L		
			o-Xylene	<	0.37	ug/L		
			Styrene	<	0.34	ug/L		
			Bromoform	<	0.98	ug/L		
			1,1,2,2-Tetrachloroethane	<	0.86	ug/L		
			SURROGATE RECOVERIES:					
		1.00	1,2-Dichloroethane-D4 (76-114)		139 *	%		
			Toluene-D8 (88-110)		104	%		
			4-Bromofluorobenzene (86-115)		95	%		

* - Out of control limits.

Analyzed By: _____

Approved By: Mark R. Koenig, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260

July 14, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
C-27536	WOGT002XXX02XR	1.00	Chloromethane	<	9.6	ug/L	09/21/94	10/07/94
			Vinyl chloride	<	14	ug/L		
			Bromomethane	<	16	ug/L		
			Chloroethane	<	15	ug/L		
			1,1-Dichloroethene	<	0.58	ug/L		
			Acetone	B	11	ug/L		
			Carbon disulfide	<	0.60	ug/L		
			Methylene chloride	B	28	ug/L		
			trans-1,2-Dichloroethene	<	0.64	ug/L		
			1,1-Dichloroethane	<	0.53	ug/L		
			cis 1,2-Dichloroethene	<	0.52	ug/L		
			Chloroform	<	0.59	ug/L		
			1,2-Dichloroethane	<	0.41	ug/L		
			2-Butanone	<	1.6	ug/L		
			1,1,1-Trichloroethane	<	0.39	ug/L		
			Carbon Tetrachloride	<	0.36	ug/L		
			Benzene	<	0.63	ug/L		
			Trichloroethene	<	0.59	ug/L		
			1,2-Dichloropropane	<	0.45	ug/L		
			Bromodichloromethane	<	0.38	ug/L		
			cis 1,3-Dichloropropene	<	0.48	ug/L		
			trans 1,3-Dichloropropene	<	0.60	ug/L		
			4-Methyl-2-pentanone	<	1.5	ug/L		
			Toluene	<	0.58	ug/L		
			1,1,2-Trichloroethane	<	0.62	ug/L		
			Tetrachloroethene	<	0.46	ug/L		
			2-Hexanone	<	1.2	ug/L		
			Dibromochloromenthane	<	0.57	ug/L		
			Chlorobenzene	<	0.75	ug/L		
			Ethylbenzene	<	0.56	ug/L		
			m/p Xylene	<	1.1	ug/L		
			o-Xylene	<	0.37	ug/L		
			Styrene	<	0.34	ug/L		
			Bromoform	<	0.98	ug/L		
			1,1,2,2-Tetrachloroethane	<	0.86	ug/L		
			SURROGATE RECOVERIES:					
		1.00	1,2-Dichloroethane-D4 (76-114)		136 *	%		
			Toluene-D8 (88-110)		104	%		
			4-Bromofluorobenzene (86-115)		99	%		

* - Out of control limits.

Analyzed By: _____

Approved By: Mark R. Koenig, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANICS - METHOD 8260

Field Description	Analyte	Dilution Factor		Result	Units	Date Analyzed
METHOD BLANK	Chloromethane	1.0	<	9.6	ug/L	10/07/94
	Vinyl chloride		<	14	ug/L	
	Bromomethane		<	16	ug/L	
	Chloroethane		<	15	ug/L	
	1,1-Dichloroethene		<	0.58	ug/L	
	Acetone			16	ug/L	
	Carbon disulfide		<	0.60	ug/L	
	Methylene chloride			19	ug/L	
	trans 1,2-Dichloroethene		<	0.64	ug/L	
	1,1-Dichloroethane		<	0.53	ug/L	
	cis 1,2-Dichloroethene		<	0.52	ug/L	
	Chloroform		<	0.59	ug/L	
	1,2-Dichloroethane		<	0.41	ug/L	
	2-Butanone		<	1.6	ug/L	
	1,1,1-Trichloroethane		<	0.39	ug/L	
	Carbon tetrachloride		<	0.36	ug/L	
	Benzene		<	0.63	ug/L	
	Trichloroethene		<	0.59	ug/L	
	1,2-Dichloropropane		<	0.45	ug/L	
	Bromodichloromethane		<	0.38	ug/L	
	cis-1,3-Dichloropropene		<	0.48	ug/L	
	trans-1,3-Dichloropropene		<	0.60	ug/L	
	4-Methyl-2-pentanone		<	1.5	ug/L	
	Toluene		<	0.58	ug/L	
	1,1,2-Trichloroethane		<	0.62	ug/L	
	Tetrachloroethene		<	0.46	ug/L	
	2-Hexanone		<	1.2	ug/L	
	Dibromochloromethane		<	0.57	ug/L	
	Chlorobenzene		<	0.75	ug/L	
	Ethylbenzene		<	0.56	ug/L	
	m/p Xylene		<	1.1	ug/L	
	o-Xylene		<	0.37	ug/L	
	Styrene		<	0.34	ug/L	
	Bromoform		<	0.98	ug/L	
	1,1,2,2-Tetrachloroethane		<	0.86	ug/L	
	SURROGATE RECOVERIES: (%)					
	1,2-Dichloroethane-d4 (76-114)			135 *	%	
	Toluene-d8 (88-110)			110	%	
	p-bromofluorobenzene (86-115)			102	%	

* - Out of control limits.

Analyzed By: CS 11.14.96

Approved By: CG 11-14-96

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
D-31751 *	WOGW704XXX01XR	50.00	Dichlorodifluoromethane	<	375	ug/L	07/11/95	07/14/95
			Chloromethane	<	105	ug/L		
			Vinyl chloride	<	70	ug/L		
			Bromomethane	<	135	ug/L		
			Chloroethane	<	100	ug/L		
			Trichlorofluoromethane	<	55	ug/L		
			1,1-Dichloroethene	<	85	ug/L		
			Dichloromethane (MeCl2)	B	710	ug/L		
			trans 1,2-Dichloroethene	<	90	ug/L		
			1,1-Dichloroethane	<	70	ug/L		
			2,2-Dichloropropane	<	260	ug/L		
			cis 1,2-Dichloroethene	<	80	ug/L		
			Chloroform	<	80	ug/L		
			Bromochloromethane	<	110	ug/L		
			1,1,1-Trichloroethane	<	120	ug/L		
			1,1-Dichloropropene	<	80	ug/L		
			Carbon Tetrachloride	<	110	ug/L		
			1,2-Dichloroethane	<	155	ug/L		
			Benzene	J	160	ug/L		
			Trichloroethene	<	110	ug/L		
			1,2-Dichloropropane	<	90	ug/L		
			Bromodichloromethane	<	100	ug/L		
			Dibromomethane	<	150	ug/L		
			cis 1,3-Dichloro,1-propene	<	125	ug/L		
			Toluene		2500	ug/L		
			trans 1,3-Dichloro,1-propene	<	180	ug/L		
			1,1,2-Trichloroethane	<	185	ug/L		
			1,2-Dibromoethane	<	185	ug/L		
			1,3-Dichloropropane	<	135	ug/L		
			Tetrachloroethene	<	75	ug/L		
			Dibromochloromethane	<	115	ug/L		
			Chlorobenzene	<	70	ug/L		
			1,1,1,2-Tetrachloroethane	<	75	ug/L		
			Ethylbenzene		1100	ug/L		
			m/p Xylene		2800	ug/L		
			o-Xylene		1500	ug/L		
			Styrene	<	70	ug/L		
			Bromoform	<	165	ug/L		
			Isopropylbenzene	J	150	ug/L		
			1,1,2,2-Tetrachloroethane	<	250	ug/L		
			1,2,3-Trichloropropane	<	135	ug/L		
			n-Propylbenzene		250	ug/L		
			Bromobenzene	<	80	ug/L		
			1,3,5-Trimethylbenzene		570	ug/L		
			2-Chlorotoluene	<	85	ug/L		
			4-Chlorotoluene	<	60	ug/L		
			tert-Butylbenzene	<	80	ug/L		
			1,2,4-Trimethylbenzene		820	ug/L		
			sec-Butylbenzene	J	110	ug/L		
			p-Isopropyltoluene		340	ug/L		
			1,3-Dichlorobenzene	<	70	ug/L		
			1,4-Dichlorobenzene	<	75	ug/L		
			n-Butylbenzene		330	ug/L		
			1,2-Dichlorobenzene	<	80	ug/L		
			1,2-Dibromo-3-chloropropane	<	175	ug/L		
			1,2,4-Trichlorobenzene	<	95	ug/L		
			Hexachlorobutadiene	<	90	ug/L		
			Naphthalene	J	320	ug/L		
			1,2,3-Trichlorobenzene	<	120	ug/L		

* Large amounts of branched/normal alkanes in the C10 - C14 range.

Analyzed By: [signature]

Reviewed By: Mark R. Koenig

BTEX 8060

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
D-31751	WOGW704XXX01XR		SURROGATE RECOVERIES:	____	____	07/11/95	07/14/95
		1.00	Toluene-D8 (88-110)	111 *	%		
			Dibromofluoromethane (86-118)	146 *	%		
			4-Bromofluorobenzene (86-115)	128 *	%		

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
D-31752	WOBTXX1XXX01XR	1.00	Dichlorodifluoromethane	<	7.5	ug/L	07/11/95	07/13/95
			Chloromethane	<	2.1	ug/L		
			Vinyl chloride	<	1.4	ug/L		
			Bromomethane	<	2.7	ug/L		
			Chloroethane	<	2.0	ug/L		
			Trichlorofluoromethane	<	1.1	ug/L		
			1,1-Dichloroethene	<	1.7	ug/L		
			Dichloromethane (MeCl2)	B	17	ug/L		
			trans 1,2-Dichloroethene	<	1.8	ug/L		
			1,1-Dichloroethane	<	1.4	ug/L		
			2,2-Dichloropropane	<	5.2	ug/L		
			cis 1,2-Dichloroethene	<	1.6	ug/L		
			Chloroform	<	1.6	ug/L		
			Bromochloromethane	<	2.2	ug/L		
			1,1,1-Trichloroethane	<	2.4	ug/L		
			1,1-Dichloropropene	<	1.6	ug/L		
			Carbon Tetrachloride	<	2.2	ug/L		
			1,2-Dichloroethane	<	3.1	ug/L		
			Benzene	<	2.2	ug/L		
			Trichloroethene	<	2.2	ug/L		
			1,2-Dichloropropane	<	1.8	ug/L		
			Bromodichloromethane	<	2.0	ug/L		
			Dibromomethane	<	3.0	ug/L		
			cis 1,3-Dichloro,1-propene	<	2.5	ug/L		
			Toluene	<	1.9	ug/L		
			trans 1,3-Dichloro,1-propene	<	3.6	ug/L		
			1,1,2-Trichloroethane	<	3.7	ug/L		
			1,2-Dibromoethane	<	3.7	ug/L		
			1,3-Dichloropropane	<	2.7	ug/L		
			Tetrachloroethene	<	1.5	ug/L		
			Dibromochloromethane	<	2.3	ug/L		
			Chlorobenzene	<	1.4	ug/L		
			1,1,1,2-Tetrachloroethane	<	1.5	ug/L		
			Ethylbenzene	<	1.4	ug/L		
			m/p Xylene	<	2.0	ug/L		
			o-Xylene	<	1.5	ug/L		
			Styrene	<	1.4	ug/L		
			Bromoform	<	3.3	ug/L		
			Isopropylbenzene	<	1.5	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	2.7	ug/L		
			n-Propylbenzene	<	1.4	ug/L		
			Bromobenzene	<	1.6	ug/L		
			1,3,5-Trimethylbenzene	<	1.5	ug/L		
			2-Chlorotoluene	<	1.7	ug/L		
			4-Chlorotoluene	<	1.2	ug/L		
			tert-Butylbenzene	<	1.6	ug/L		
			1,2,4-Trimethylbenzene	<	1.4	ug/L		
			sec-Butylbenzene	<	1.4	ug/L		
			p-Isopropyltoluene	<	1.4	ug/L		
			1,3-Dichlorobenzene	<	1.4	ug/L		
			1,4-Dichlorobenzene	<	1.5	ug/L		
			n-Butylbenzene	<	1.5	ug/L		
			1,2-Dichlorobenzene	<	1.6	ug/L		
			1,2-Dibromo-3-chloropropane	<	3.5	ug/L		
			1,2,4-Trichlorobenzene	<	1.9	ug/L		
			Hexachlorobutadiene	<	1.8	ug/L		
			Naphthalene	<	2.7	ug/L		
			1,2,3-Trichlorobenzene	<	2.4	ug/L		

Analyzed By: [signature]

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte	Result		Units	Sample Date	Date Analyzed
D-31752	WOBTXX1XXX01XR		SURROGATE RECOVERIES:				07/11/95	07/13/95
		1.00	Toluene-D8 (88-110)	107		%		
			Dibromofluoromethane (86-118)	121	*	%		
			4-Bromofluorobenzene (86-115)	115		%		

* - Out of control limits.

Analyzed By: _____

Reviewed By: MRA

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
D-31753	WOBSXX1XXXO1XR	1.00	Dichlorodifluoromethane	<	7.5	ug/L	07/10/95	07/13/95
			Chloromethane	<	2.1	ug/L		
			Vinyl chloride	<	1.4	ug/L		
			Bromomethane	<	2.7	ug/L		
			Chloroethane	<	2.0	ug/L		
			Trichlorofluoromethane	<	1.1	ug/L		
			1,1-Dichloroethene	<	1.7	ug/L		
			Dichloromethane (MeCl2)	B	16	ug/L		
			trans 1,2-Dichloroethene	<	1.8	ug/L		
			1,1-Dichloroethane	<	1.4	ug/L		
			2,2-Dichloropropane	<	5.2	ug/L		
			cis 1,2-Dichloroethene	<	1.6	ug/L		
			Chloroform	<	1.6	ug/L		
			Bromochloromethane	<	2.2	ug/L		
			1,1,1-Trichloroethane	<	2.4	ug/L		
			1,1-Dichloropropene	<	1.6	ug/L		
			Carbon Tetrachloride	<	2.2	ug/L		
			1,2-Dichloroethane	<	3.1	ug/L		
			Benzene	<	2.2	ug/L		
			Trichloroethene	<	2.2	ug/L		
			1,2-Dichloropropane	<	1.8	ug/L		
			Bromodichloromethane	<	2.0	ug/L		
			Dibromomethane	<	3.0	ug/L		
			cis 1,3-Dichloro,1-propene	<	2.5	ug/L		
			Toluene	<	1.9	ug/L		
			trans 1,3-Dichloro,1-propene	<	3.6	ug/L		
			1,1,2-Trichloroethane	<	3.7	ug/L		
			1,2-Dibromoethane	<	3.7	ug/L		
			1,3-Dichloropropane	<	2.7	ug/L		
			Tetrachloroethene	<	1.5	ug/L		
			Dibromochloromethane	<	2.3	ug/L		
			Chlorobenzene	<	1.4	ug/L		
			1,1,1,2-Tetrachloroethane	<	1.5	ug/L		
			Ethylbenzene	<	1.4	ug/L		
			m/p Xylene	<	2.0	ug/L		
			o-Xylene	<	1.5	ug/L		
			Styrene	<	1.4	ug/L		
			Bromoform	<	3.3	ug/L		
			Isopropylbenzene	<	1.5	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	2.7	ug/L		
			n-Propylbenzene	<	1.4	ug/L		
			Bromobenzene	<	1.6	ug/L		
			1,3,5-Trimethylbenzene	<	1.5	ug/L		
			2-Chlorotoluene	<	1.7	ug/L		
			4-Chlorotoluene	<	1.2	ug/L		
			tert-Butylbenzene	<	1.6	ug/L		
			1,2,4-Trimethylbenzene	<	1.4	ug/L		
			sec-Butylbenzene	<	1.4	ug/L		
			p-Isopropyltoluene	<	1.4	ug/L		
			1,3-Dichlorobenzene	<	1.4	ug/L		
			1,4-Dichlorobenzene	<	1.5	ug/L		
			n-Butylbenzene	<	1.5	ug/L		
			1,2-Dichlorobenzene	<	1.6	ug/L		
			1,2-Dibromo-3-chloropropane	<	3.5	ug/L		
			1,2,4-Trichlorobenzene	<	1.9	ug/L		
			Hexachlorobutadiene	<	1.8	ug/L		
			Naphthalene	<	2.7	ug/L		
			1,2,3-Trichlorobenzene	<	2.4	ug/L		

Analyzed By: _____

Reviewed By: MAK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
D-31753	WOBSXX1XXX01XR		SURROGATE RECOVERIES:	____	____	07/10/95	07/13/95
		1.00	Toluene-D8 (88-110)	100	%		
			Dibromofluoromethane (86-118)	120*	%		
			4-Bromofluorobenzene (86-115)	107	%		

* - Out of control limits.

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
D-31754	WOGW102XXX01XR	1.00	Dichlorodifluoromethane	<	7.5	ug/L	07/10/95	07/13/95
			Chloromethane	<	2.1	ug/L		
			Vinyl chloride	<	1.4	ug/L		
			Bromomethane	<	2.7	ug/L		
			Chloroethane	<	2.0	ug/L		
			Trichlorofluoromethane	<	1.1	ug/L		
			1,1-Dichloroethene	<	1.7	ug/L		
			Dichloromethane (MeCl2)	B	18	ug/L		
			trans 1,2-Dichloroethene	<	1.8	ug/L		
			1,1-Dichloroethane	<	1.4	ug/L		
			2,2-Dichloropropane	<	5.2	ug/L		
			cis 1,2-Dichloroethene	<	1.6	ug/L		
			Chloroform	<	1.6	ug/L		
			Bromochloromethane	<	2.2	ug/L		
			1,1,1-Trichloroethane	<	2.4	ug/L		
			1,1-Dichloropropene	<	1.6	ug/L		
			Carbon Tetrachloride	<	2.2	ug/L		
			1,2-Dichloroethane	<	3.1	ug/L		
			Benzene	<	2.2	ug/L		
			Trichloroethene	<	2.2	ug/L		
			1,2-Dichloropropane	<	1.8	ug/L		
			Bromodichloromethane	<	2.0	ug/L		
			Dibromomethane	<	3.0	ug/L		
			cis 1,3-Dichloro,1-propene	<	2.5	ug/L		
			Toluene	<	1.9	ug/L		
			trans 1,3-Dichloro,1-propene	<	3.6	ug/L		
			1,1,2-Trichloroethane	<	3.7	ug/L		
			1,2-Dibromoethane	<	3.7	ug/L		
			1,3-Dichloropropane	<	2.7	ug/L		
			Tetrachloroethene	<	1.5	ug/L		
			Dibromochloromethane	<	2.3	ug/L		
			Chlorobenzene	<	1.4	ug/L		
			1,1,1,2-Tetrachloroethane	<	1.5	ug/L		
			Ethylbenzene	<	1.4	ug/L		
			m/p Xylene	<	2.0	ug/L		
			o-Xylene	<	1.5	ug/L		
			Styrene	<	1.4	ug/L		
			Bromoform	<	3.3	ug/L		
			Isopropylbenzene	<	1.5	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	2.7	ug/L		
			n-Propylbenzene	<	1.4	ug/L		
			Bromobenzene	<	1.6	ug/L		
			1,3,5-Trimethylbenzene	<	1.5	ug/L		
			2-Chlorotoluene	<	1.7	ug/L		
			4-Chlorotoluene	<	1.2	ug/L		
			tert-Butylbenzene	<	1.6	ug/L		
			1,2,4-Trimethylbenzene	<	1.4	ug/L		
			sec-Butylbenzene	<	1.4	ug/L		
			p-Isopropyltoluene	<	1.4	ug/L		
			1,3-Dichlorobenzene	<	1.4	ug/L		
			1,4-Dichlorobenzene	<	1.5	ug/L		
			n-Butylbenzene	<	1.5	ug/L		
			1,2-Dichlorobenzene	<	1.6	ug/L		
			1,2-Dibromo-3-chloropropane	<	3.5	ug/L		
			1,2,4-Trichlorobenzene	<	1.9	ug/L		
			Hexachlorobutadiene	<	1.8	ug/L		
			Naphthalene	<	2.7	ug/L		
			1,2,3-Trichlorobenzene	<	2.4	ug/L		

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
D-31754	WOGW102XXX01XR		SURROGATE RECOVERIES:			07/10/95	07/13/95
		1.00	Toluene-D8 (88-110)	92	%		
			Dibromofluoromethane (86-118)	121*	%		
			4-Bromofluorobenzene (86-115)	101	%		

* - Out of control limits.

Analyzed By: [signature]

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

SEMI-VOLATILE ORGANICS

November 17, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Extracted	Date Analyzed
D-31806	WO GW301XXX01XX	1.00	Phenol	<	10	ug/L	07/13/95	07/20/95	07/26/95
			bis(2-Chloroethyl)ether	<	10	ug/L			
			2-Chlorophenol	<	10	ug/L			
			1,3-Dichlorobenzene	<	10	ug/L			
			1,4-Dichlorobenzene	<	10	ug/L			
			1,2-Dichlorobenzene	<	10	ug/L			
			2-Methylphenol	<	10	ug/L			
			bis(2-Chloroisopropyl)ether	<	10	ug/L			
			4-Methylphenol	J	2.0	ug/L			
			N-Nitroso-di-n-propylamine	<	10	ug/L			
			Hexachloroethane	<	10	ug/L			
			Nitrobenzene	<	10	ug/L			
			Isophorone	<	10	ug/L			
			2-Nitrophenol	<	10	ug/L			
			2,4-Dimethylphenol		50	ug/L			
			bis(2-Chloroethoxy)methane	<	10	ug/L			
			2,4-Dichlorophenol	<	25	ug/L			
			1,2,4-Trichlorobenzene	<	10	ug/L			
			Naphthalene	J	5.0	ug/L			
			4-Chloroaniline	<	10	ug/L			
			Hexachlorobutadiene	<	10	ug/L			
			4-Chloro-3-methylphenol	<	10	ug/L			
			2-Methylnaphthalene	<	10	ug/L			
			Hexachlorocyclopentadiene	<	10	ug/L			
			2,4,6-Trichlorophenol	<	10	ug/L			
			2,4,5-Trichlorophenol	<	25	ug/L			
			2-Chloronaphthalene	<	10	ug/L			
			2-Nitroaniline	<	25	ug/L			
			Dimethyl phthalate	<	10	ug/L			
			Acenaphthylene	<	10	ug/L			
			2,6-Dinitrotoluene	<	10	ug/L			
			3-Nitroaniline	<	25	ug/L			
			Acenaphthene	J	1.0	ug/L			
			2,4-Dinitrophenol	<	25	ug/L			
			4-Nitrophenol	<	25	ug/L			
			Dibenzofuran	<	10	ug/L			
			2,4-Dinitrotoluene	<	10	ug/L			
			Diethylphthalate	<	10	ug/L			
			4-Chlorophenyl-phenylether	<	10	ug/L			
			Fluorene	<	10	ug/L			
			4-Nitroaniline	<	25	ug/L			
			4,6-Dinitro-2-methylphenol	<	25	ug/L			
			N-Nitrosodiphenylamine	<	10	ug/L			
			4-Bromophenyl-phenylether	<	10	ug/L			
			Hexachlorobenzene	<	10	ug/L			
			Pentachlorophenol	<	25	ug/L			
			Phenanthrene	<	10	ug/L			
			Anthracene	<	10	ug/L			
			Di-n-butylphthlate	JB	2.0	ug/L			
			Fluoranthene	<	10	ug/L			
			Pyrene	<	10	ug/L			
			Butylbenzylphthalate	<	10	ug/L			
			3,3-Dichlorobenzidine	<	10	ug/L			
			Benzo(a)anthracene	<	10	ug/L			
			Chrysene	<	10	ug/L			
			bis(2-Ethylhexyl)phthalate		11	ug/L			
			Di-n-octyl phthalate	<	10	ug/L			
			Benzo(b)fluoranthene	<	10	ug/L			
			Benzo(k)fluoranthene	<	10	ug/L			
			Benzo(a)pyrene	<	10	ug/L			
			Indeno(1,2,3-cd)pyrene	<	10	ug/L			
			Dibenz(a,h)anthracene	<	10	ug/L			
			Benzo(g,h,i)perylene	<	10	ug/L			
			Carbazole	<	10	ug/L			

Analyzed By: E3I

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

SEMI-VOLATILE ORGANICS

November 17, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Extracted	Date Analyzed
D-31806	WO GW301XXX01XX		SURROGATE RECOVERIES:			07/13/95	07/20/95	07/26/95
		1.00	Nitrobenzene-d5 (35-114)	82	%			
			2-Fluorobiphenyl (43-116)	67	%			
			Terphenyl-d14 (33-141)	* 27	%			
			1,2-Dichlorobenzene-d4 (16-110) Advisory	65	%			
			Phenol-d5 (10-110)	63	%			
			2-Fluorophenol (21-110)	60	%			
			2,4,6-Tribromophenol (10-123)	85	%			
			2-Chlorophenol-d4 (33-110) Advisory	52	%			

* Value outside QC limits.

Analyzed By: E3I

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

CONTRACTOR LABORATORY

METHOD 8270: SEMI-VOLATILE ORGANICS - WATER (ug/L) 12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Extracted	Date Analyzed
METHOD BLANK	1.0	Phenol	<	10	ug/L	07/20/95	07/25/95
		bis(2-Chloroethyl)Ether	<	10	ug/L		
		2-Chlorophenol	<	10	ug/L		
		1,3-Dichlorobenzene	<	10	ug/L		
		1,4-Dichlorobenzene	<	10	ug/L		
		1,2-Dichlorobenzene	<	10	ug/L		
		2-Methylphenol	<	10	ug/L		
		bis(2-chloroisopropyl)ether	<	10	ug/L		
		4-Methylphenol	<	10	ug/L		
		N-Nitroso-Di-n-propylamine	<	10	ug/L		
		Hexachloroethane	<	10	ug/L		
		Nitrobenzene	<	10	ug/L		
		Isophorone	<	10	ug/L		
		2-Nitrophenol	<	10	ug/L		
		2,4-Dimethylphenol	<	10	ug/L		
		bis(2-Chloroethoxy)methane	<	10	ug/L		
		2,4-Dichlorophenol	<	25	ug/L		
		1,2,4-Trichlorobenzene	<	10	ug/L		
		Naphthalene	<	10	ug/L		
		4-Chloroaniline	<	10	ug/L		
		Hexachlorobutadiene	<	10	ug/L		
		4-Chloro-3-methylphenol	<	10	ug/L		
		2-Methylnaphthalene	<	10	ug/L		
		Hexachlorocyclopentadiene	<	10	ug/L		
		2,4,6-Trichlorophenol	<	10	ug/L		
		2,4,5-Trichlorophenol	<	25	ug/L		
		2-Chloronaphthalene	<	10	ug/L		
		2-Nitroaniline	<	25	ug/L		
		Dimethylphthalate	<	10	ug/L		
		Acenaphthylene	<	10	ug/L		
		2,6-Dinitrotoluene	<	10	ug/L		
		3-Nitroaniline	<	25	ug/L		
		Acenaphthene	<	10	ug/L		
		2,4-Dinitrophenol	<	25	ug/L		
		4-Nitrophenol	<	25	ug/L		
		Dibenzofuran	<	10	ug/L		
		2,4-Dinitrotoluene	<	10	ug/L		
		Diethylphthalate	<	10	ug/L		
		4-Chlorophenyl-phenylether	<	10	ug/L		
		Fluorene	<	10	ug/L		
		4-Nitroaniline	<	25	ug/L		
		4,6-Dinitro-2-methylphenol	<	25	ug/L		
		N-Nitrosodiphenylamine	<	10	ug/L		
		4-Bromophenyl-phenylether	<	10	ug/L		
		Hexachlorobenzene	<	10	ug/L		
		Pentachlorophenol	<	25	ug/L		
		Phenanthrene	<	10	ug/L		
		Anthracene	<	10	ug/L		

Analyzed By: E3I

Approved By: 11.14.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY
CONTRACTOR LABORATORY
METHOD 8270: SEMI-VOLATILE ORGANICS - WATER (ug/L) 12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Extracted	Date Analyzed
METHOD BLANK	1.0	Di-n-butylphthalate		14	ug/L	07/20/95	07/25/95
		Fluoranthene	<	10	ug/L		
		Pyrene	<	10	ug/L		
		Butylbenzylphthalate	<	10	ug/L		
		3,3'-Dichlorobenzidine	<	10	ug/L		
		Benzo(a)anthracene	<	10	ug/L		
		Chyrsene	<	10	ug/L		
		bis(2-Ethylhexyl)phthalate	<	10	ug/L		
		Di-n-octylphthalate	<	10	ug/L		
		Benzo(b)fluoranthene	<	10	ug/L		
		Benzo(k)fluoranthene	<	10	ug/L		
		Benzo(a)pyrene	<	10	ug/L		
		Indeno(1,2,3-cd)-pyrene	<	10	ug/L		
		Dibenzo(a,h)anthracene	<	10	ug/L		
		Benzo(g,h,i)perylene	<	10	ug/L		
		Carbazole					
		Surrogate Recoveries: (%)					
		Nitrobenzene-d5 (35-114)		81	%		
		2-Fluorobiphenyl(43-116)		71	%		
		Terphenyl-d14(33-141)		63	%		
		1,2-Dichlorobenzene-d4(16-110)Advisory		72	%		
		Phenol-d5(10-110)		72	%		
		2-Fluorophenol(21-110)		63	%		
		2,4,6-Tribromophenol (10-123)		95			
		2-Chlorophenol-d4 (33-110) Advisory		67			

Analyzed By: E3I

Approved By: 11.14.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

SEMI-VOLATILE ORGANICS

November 17, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Extracted	Date Analyzed
D-31867	WO GW202XXX01XR	1.00	Phenol	J	14	ug/L	07/15/95	07/21/95	07/27/95
			bis(2-Chloroethyl)ether	<	50	ug/L			
			2-Chlorophenol	<	50	ug/L			
			1,3-Dichlorobenzene	<	50	ug/L			
			1,4-Dichlorobenzene	<	50	ug/L			
			1,2-Dichlorobenzene	<	50	ug/L			
			2-Methylphenol	J	42	ug/L			
			bis(2-Chloroisopropyl)ether	<	50	ug/L			
			4-Methylphenol	J	16	ug/L			
			N-Nitroso-di-n-propylamine	<	50	ug/L			
			Hexachloroethane	<	50	ug/L			
			Nitrobenzene	<	50	ug/L			
			Isophorone	<	50	ug/L			
			2-Nitrophenol	<	50	ug/L			
			2,4-Dimethylphenol	J	34	ug/L			
			bis(2-Chloroethoxy)methane	<	50	ug/L			
			2,4-Dichlorophenol	<	130	ug/L			
			1,2,4-Trichlorobenzene	<	50	ug/L			
			Naphthalene		170	ug/L			
			4-Chloroaniline	<	50	ug/L			
			Hexachlorobutadiene	<	50	ug/L			
			4-Chloro-3-methylphenol	<	50	ug/L			
			2-Methylnaphthalene		110	ug/L			
			Hexachlorocyclopentadiene	<	50	ug/L			
			2,4,6-Trichlorophenol	<	50	ug/L			
			2,4,5-Trichlorophenol	<	130	ug/L			
			2-Chloronaphthalene	<	50	ug/L			
			2-Nitroaniline	<	130	ug/L			
			Dimethyl phthalate	<	50	ug/L			
			Acenaphthylene	<	50	ug/L			
			2,6-Dinitrotoluene	<	50	ug/L			
			3-Nitroaniline	<	130	ug/L			
			Acenaphthene	<	50	ug/L			
			2,4-Dinitrophenol	<	130	ug/L			
			4-Nitrophenol	<	130	ug/L			
			Dibenzofuran	<	50	ug/L			
			2,4-Dinitrotoluene	<	50	ug/L			
			Diethylphthalate	<	50	ug/L			
			4-Chlorophenyl-phenylether	<	50	ug/L			
			Fluorene	<	50	ug/L			
			4-Nitroaniline	<	130	ug/L			
			4,6-Dinitro-2-methylphenol	<	130	ug/L			
			N-Nitrosodiphenylamine	<	50	ug/L			
			4-Bromophenyl-phenylether	<	50	ug/L			
			Hexachlorobenzene	<	50	ug/L			
			Pentachlorophenol	<	130	ug/L			
			Phenanthrene	<	50	ug/L			
			Anthracene	<	50	ug/L			
			Di-n-butylphthlate	B	120	ug/L			
			Fluoranthene	<	50	ug/L			
			Pyrene	<	50	ug/L			
			Butylbenzylphthalate	<	50	ug/L			
			3,3-Dichlorobenzidine	<	50	ug/L			
			Benzo(a)anthracene	<	50	ug/L			
			Chrysene	<	50	ug/L			
			bis(2-Ethylhexyl)phthalate		220	ug/L			
			Di-n-octyl phthalate	<	50	ug/L			
			Benzo(b)fluoranthene	<	50	ug/L			
			Benzo(k)fluoranthene	<	50	ug/L			
			Benzo(a)pyrene	<	50	ug/L			
			Indeno(1,2,3-cd)pyrene	<	50	ug/L			
			Dibenz(a,h)anthracene	<	50	ug/L			
			Benzo(g,h,i)perylene	<	50	ug/L			
			Carbazole	<	50	ug/L			

Analyzed By: E3I

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

SEMI-VOLATILE ORGANICS

November 17, 1995

#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Extracted	Date Analyzed
D-31867	WO GW202XXX01XR		SURROGATE RECOVERIES:			07/15/95	07/21/95	07/27/95
		1.00	Nitrobenzene-d5 (35-114)	100	%			
			2-Fluorobiphenyl (43-116)	66	%			
			Terphenyl-d14 (33-141)	43	%			
			1,2-Dichlorobenzene-d4 (16-110) Advisory	80	%			
			Phenol-d5 (10-110)	98	%			
			2-Fluorophenol (21-110)	87	%			
			2,4,6-Tribromophenol (10-123)	82	%			
			2-Chlorophenol-d4 (33-110) Advisory	92	%			

Analyzed By: E3I

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
D-31806	WO GW301XXX01XX	1.00	Dichlorodifluoromethane	<	7.5	ug/L	07/13/95	07/14/95
			Chloromethane	<	2.1	ug/L		
			Vinyl chloride	<	1.4	ug/L		
			Bromomethane	<	2.7	ug/L		
			Chloroethane	<	2.0	ug/L		
			Trichlorofluoromethane	<	1.1	ug/L		
			1,1-Dichloroethene	<	1.7	ug/L		
			Dichloromethane (MeCl2)	B	16	ug/L		
			trans 1,2-Dichloroethene	<	1.8	ug/L		
			1,1-Dichloroethane	<	1.4	ug/L		
			2,2-Dichloropropane	<	5.2	ug/L		
			cis 1,2-Dichloroethene	<	1.6	ug/L		
			Chloroform	<	1.6	ug/L		
			Bromochloromethane	<	2.2	ug/L		
			1,1,1-Trichloroethane	<	2.4	ug/L		
			1,1-Dichloropropene	<	1.6	ug/L		
			Carbon Tetrachloride	<	2.2	ug/L		
			1,2-Dichloroethane	<	3.1	ug/L		
			Benzene	<	2.2	ug/L		
			Trichloroethene	<	2.2	ug/L		
			1,2-Dichloropropane	<	1.8	ug/L		
			Bromodichloromethane	<	2.0	ug/L		
			Dibromomethane	<	3.0	ug/L		
			cis 1,3-Dichloro,1-propene	<	2.5	ug/L		
			Toluene	<	1.9	ug/L		
			trans 1,3-Dichloro,1-propene	<	3.6	ug/L		
			1,1,2-Trichloroethane	<	3.7	ug/L		
			1,2-Dibromoethane	<	3.7	ug/L		
			1,3-Dichloropropane	<	2.7	ug/L		
			Tetrachloroethene	<	1.5	ug/L		
			Dibromochloromethane	<	2.3	ug/L		
			Chlorobenzene	<	1.4	ug/L		
			1,1,1,2-Tetrachloroethane	<	1.5	ug/L		
			Ethylbenzene	U	410	ug/L		
			m/p Xylene	U	1100	ug/L		
			o-Xylene	U	300	ug/L		
			Styrene	<	1.4	ug/L		
			Bromoform	<	3.3	ug/L		
			Isopropylbenzene		76	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	2.7	ug/L		
			n-Propylbenzene		67	ug/L		
			Bromobenzene	<	1.6	ug/L		
			1,3,5-Trimethylbenzene		110	ug/L		
			2-Chlorotoluene	<	1.7	ug/L		
			4-Chlorotoluene	<	1.2	ug/L		
			tert-Butylbenzene	<	1.6	ug/L		
			1,2,4-Trimethylbenzene		170	ug/L		
			sec-Butylbenzene		9.1	ug/L		
			p-Isopropyltoluene		34	ug/L		
			1,3-Dichlorobenzene	<	1.4	ug/L		
			1,4-Dichlorobenzene	<	1.5	ug/L		
			n-Butylbenzene	<	1.5	ug/L		
			1,2-Dichlorobenzene	<	1.6	ug/L		
			1,2-Dibromo-3-chloropropane	<	3.5	ug/L		
			1,2,4-Trichlorobenzene	<	1.9	ug/L		
			Hexachlorobutadiene	<	1.8	ug/L		
			Naphthalene		100	ug/L		
			1,2,3-Trichlorobenzene	<	2.4	ug/L		

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
D-31806	WO GW301XXX01XX		SURROGATE RECOVERIES:			07/13/95	07/14/95
		1.00	Toluene-D8 (88-110)	99	%		
			Dibromofluoromethane (86-118)	112	%		
			4-Bromofluorobenzene (86-115)	110	%		

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
D-31807	WO BTXX2XXX01XX	1.00	Dichlorodifluoromethane	<	7.5	ug/L	07/12/95	07/14/95
			Chloromethane	<	2.1	ug/L		
			Vinyl chloride	<	1.4	ug/L		
			Bromomethane	<	2.7	ug/L		
			Chloroethane	<	2.0	ug/L		
			Trichlorofluoromethane	<	1.1	ug/L		
			1,1-Dichloroethene	<	1.7	ug/L		
			Dichloromethane (MeCl2)	B	15	ug/L		
			trans 1,2-Dichloroethene	<	1.8	ug/L		
			1,1-Dichloroethane	<	1.4	ug/L		
			2,2-Dichloropropane	<	5.2	ug/L		
			cis 1,2-Dichloroethene	<	1.6	ug/L		
			Chloroform	<	1.6	ug/L		
			Bromochloromethane	<	2.2	ug/L		
			1,1,1-Trichloroethane	<	2.4	ug/L		
			1,1-Dichloropropene	<	1.6	ug/L		
			Carbon Tetrachloride	<	2.2	ug/L		
			1,2-Dichloroethane	<	3.1	ug/L		
			Benzene	<	2.2	ug/L		
			Trichloroethene	<	2.2	ug/L		
			1,2-Dichloropropane	<	1.8	ug/L		
			Bromodichloromethane	<	2.0	ug/L		
			Dibromomethane	<	3.0	ug/L		
			cis 1,3-Dichloro,1-propene	<	2.5	ug/L		
			Toluene	<	1.9	ug/L		
			trans 1,3-Dichloro,1-propene	<	3.6	ug/L		
			1,1,2-Trichloroethane	<	3.7	ug/L		
			1,2-Dibromoethane	<	3.7	ug/L		
			1,3-Dichloropropane	<	2.7	ug/L		
			Tetrachloroethene	<	1.5	ug/L		
			Dibromochloromethane	<	2.3	ug/L		
			Chlorobenzene	<	1.4	ug/L		
			1,1,1,2-Tetrachloroethane	<	1.5	ug/L		
			Ethylbenzene	<	1.4	ug/L		
			m/p Xylene	J	2.8	ug/L		
			o-Xylene	<	1.5	ug/L		
			Styrene	<	1.4	ug/L		
			Bromoform	<	3.3	ug/L		
			Isopropylbenzene	<	1.5	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	2.7	ug/L		
			n-Propylbenzene	<	1.4	ug/L		
			Bromobenzene	<	1.6	ug/L		
			1,3,5-Trimethylbenzene	<	1.5	ug/L		
			2-Chlorotoluene	<	1.7	ug/L		
			4-Chlorotoluene	<	1.2	ug/L		
			tert-Butylbenzene	<	1.6	ug/L		
			1,2,4-Trimethylbenzene	<	1.4	ug/L		
			sec-Butylbenzene	<	1.4	ug/L		
			p-Isopropyltoluene	<	1.4	ug/L		
			1,3-Dichlorobenzene	<	1.4	ug/L		
			1,4-Dichlorobenzene	<	1.5	ug/L		
			n-Butylbenzene	<	1.5	ug/L		
			1,2-Dichlorobenzene	<	1.6	ug/L		
			1,2-Dibromo-3-chloropropane	<	3.5	ug/L		
			1,2,4-Trichlorobenzene	<	1.9	ug/L		
			Hexachlorobutadiene	<	1.8	ug/L		
			Naphthalene		39	ug/L		
			1,2,3-Trichlorobenzene	<	2.4	ug/L		

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
D-31807	WO BTXX2XXX01XX		SURROGATE RECOVERIES:			07/12/95	07/14/95
		1.00	Toluene-D8 (88-110)	117 *	%		
			Dibromofluoromethane (86-118)	148 *	%		
			4-Bromofluorobenzene (86-115)	127 *	%		

* - Out of control limits.

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260A 12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Analyzed
METHOD BLANK	1.0	Dichlorodifluoromethane	<	7.5	ug/L	07/14/95
		Chloromethane	<	2.1	ug/L	
		Vinyl chloride	<	1.4	ug/L	
		Bromomethane	<	2.7	ug/L	
		Chloroethane	<	2.0	ug/L	
		Trichlorofluoromethane	<	1.1	ug/L	
		1,1-Dichloroethane	<	1.7	ug/L	
		Dichloromethane (MeC12)		11	ug/L	
		trans-1,2-Dichloroethane	<	1.8	ug/L	
		1,1-Dichloroethane	<	1.4	ug/L	
		2,2-Dichloropropane	<	5.2	ug/L	
		cis 1,2-Dichloroethene	<	1.6	ug/L	
		Chloroform	<	1.6	ug/L	
		Bromochloromethane	<	2.2	ug/L	
		1,1,1-Trichloroethane	<	2.4	ug/L	
		1,1-Dichloropropene	<	1.6	ug/L	
		Carbon Tetrachloride	<	2.2	ug/L	
		1,2-Dichloroethane	<	3.1	ug/L	
		Benzene	<	2.2	ug/L	
		Trichloroethene	<	2.2	ug/L	
		1,2-Dichloropropane	<	1.8	ug/L	
		Bromodichloromethane	<	2.0	ug/L	
		Dibromomethane	<	3.0	ug/L	
		cis 1,3-Dichloro,1-propene	<	2.5	ug/L	
		Toluene	<	1.9	ug/L	
		trans 1,3-Dichloro,1-propene	<	3.6	ug/L	
		1,1,2-Trichloroethane	<	3.7	ug/L	
		1,2-Dibromoethane	<	3.7	ug/L	
		1,3-Dichloropropane	<	2.7	ug/L	
		Tetrachloroethene	<	1.5	ug/L	
		Dibromochloromethane	<	2.3	ug/L	
		Chlorobenzene	<	1.4	ug/L	
		1,1,1,2-Trachloroethane	<	1.5	ug/L	
		Ethylbenzene	<	1.4	ug/L	
		m/p Xylene	<	2.0	ug/L	
		o-Xylene	<	1.5	ug/L	
		Styrene	<	1.4	ug/L	
		Bromoform	<	3.3	ug/L	
		Isopropylbenzene	<	1.5	ug/L	
		1,1,2,2-Tetrachloroethane	<	5.0	ug/L	
		1,2,3-Trichloropropane	<	2.7	ug/L	
		n-Propylbenzene	<	1.4	ug/L	
		Bromobenzene	<	1.6	ug/L	
		1,3,5-Trimethylbenzene	<	1.5	ug/L	
		2-Chlorotoluene	<	1.7	ug/L	
		4-Chlorotoluene	<	1.2	ug/L	
		tert-Butylbenzene	<	1.6	ug/L	
		1,2,4-Trimethylbenzene	<	1.4	ug/L	

Reviewed By: 11.14.96, Analyst

Approved By: 11.14.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260A

12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Analyzed
METHOD BLANK	1.0	sec-Butylbenzene	<	1.4	ug/L	07/14/95
		p-Isopropyltoluene	<	1.4	ug/L	
		1,3-Dichlorobenzene	<	1.4	ug/L	
		1,4-Dichlorobenzene	<	1.5	ug/L	
		n-Butylbenzene	<	1.5	ug/L	
		1,2-Dichlorobenzene	<	1.6	ug/L	
		1,2-Dibromo-3-chloropropane	<	3.5	ug/L	
		1,2,4-Trichlorobenzene	<	1.9	ug/L	
		Hexachlorobutadiene	<	1.8	ug/L	
		Naphthalene	<	2.7	ug/L	
		1,2,3-Trichlorobenzene	<	2.4	ug/L	

Surrogate Recoveries: (%)

Toluene-D8 (88-110)	109
Dibromofluoromethane (86-118)	137 *
4-Bromofluorobenzene (86-115)	117 *

* - Out of Control Limits.

Reviewed By: 11.14.96, Analyst

Approved By: 11.14.96

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260A

November 24, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
D-31808 *	WO GW307XXX01XX	1.00	Dichlorodifluoromethane	<	7.5	ug/L	07/12/95	07/20/95
			Chloromethane	<	2.1	ug/L		
			Vinyl chloride	<	1.4	ug/L		
			Bromomethane	<	2.7	ug/L		
			Chloroethane	<	2.0	ug/L		
			Trichlorofluoromethane	<	1.1	ug/L		
			1,1-Dichloroethene	<	1.7	ug/L		
			Dichloromethane (MeCl2)	<	2.0	ug/L		
			trans 1,2-Dichloroethene	<	1.8	ug/L		
			1,1-Dichloroethane	<	1.4	ug/L		
			2,2-Dichloropropane	<	5.2	ug/L		
			cis 1,2-Dichloroethene	<	1.6	ug/L		
			Chloroform	<	1.6	ug/L		
			Bromochloromethane	<	2.2	ug/L		
			1,1,1-Trichloroethane	<	2.4	ug/L		
			1,1-Dichloropropene	<	1.6	ug/L		
			Carbon Tetrachloride	<	2.2	ug/L		
			1,2-Dichloroethane	<	3.1	ug/L		
			Benzene	<	2.2	ug/L		
			Trichloroethene	<	2.2	ug/L		
			1,2-Dichloropropane	<	1.8	ug/L		
			Bromodichloromethane	<	2.0	ug/L		
			Dibromomethane	<	3.0	ug/L		
			cis 1,3-Dichloro,1-propene	<	2.5	ug/L		
			Toluene	<	1.9	ug/L		
			trans 1,3-Dichloro,1-propene	<	3.6	ug/L		
			1,1,2-Trichloroethane	<	3.7	ug/L		
			1,2-Dibromoethane	<	3.7	ug/L		
			1,3-Dichloropropane	<	2.7	ug/L		
			Tetrachloroethene	<	1.5	ug/L		
			Dibromochloromethane	<	2.3	ug/L		
			Chlorobenzene	<	1.4	ug/L		
			1,1,1,2-Tetrachloroethane	<	1.5	ug/L		
			Ethylbenzene	<	1.4	ug/L		
			m/p Xylene	<	2.0	ug/L		
			o-Xylene	<	1.5	ug/L		
			Styrene	<	1.4	ug/L		
			Bromoform	<	3.3	ug/L		
			Isopropylbenzene		58	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	2.7	ug/L		
			n-Propylbenzene		85	ug/L		
			Bromobenzene	<	1.6	ug/L		
			1,3,5-Trimethylbenzene		150	ug/L		
			2-Chlorotoluene	<	1.7	ug/L		
			4-Chlorotoluene	<	1.2	ug/L		
			tert-Butylbenzene	<	1.6	ug/L		
			1,2,4-Trimethylbenzene	U	240	ug/L		
			sec-Butylbenzene		12	ug/L		
			p-Isopropyltoluene		38	ug/L		
			1,3-Dichlorobenzene	<	1.4	ug/L		
			1,4-Dichlorobenzene	<	1.5	ug/L		
			n-Butylbenzene	<	1.5	ug/L		
			1,2-Dichlorobenzene	<	1.6	ug/L		
			1,2-Dibromo-3-chloropropane	<	3.5	ug/L		
			1,2,4-Trichlorobenzene	<	1.9	ug/L		
			Hexachlorobutadiene	<	1.8	ug/L		
			Naphthalene	<	2.7	ug/L		
			1,2,3-Trichlorobenzene	<	2.4	ug/L		

* Large amounts of C6H14 (M.W.84): methylated pentanes, alkylated C6H12 (M.W.82), alkylated cyclopentane (M.W.98), cyclohexane (C6H12), methylated cyclohexane (M.W.98, C7H14) - Indicative of mineral spirits, petroleum ether, ligroin, petroleum benzin.

Analyzed By: _____, Analyst

Approved By: MKK _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
D-31808	WO GW307XXX01XX		SURROGATE RECOVERIES:			07/12/95	07/20/95
		1.00	Toluene-D8 (88-110)	111 *	%		
			Dibromofluoromethane (86-118)	102	%		
			4-Bromofluorobenzene (86-115)	99	%		

* - Out of control limits.

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
D-31867	WO GW202XXX01XR	1.00	Dichlorodifluoromethane	<	7.5	ug/L	07/15/95	07/20/95
			Chloromethane	<	2.1	ug/L		
			Vinyl chloride	<	1.4	ug/L		
			Bromomethane	<	2.7	ug/L		
			Chloroethane	<	2.0	ug/L		
			Trichlorofluoromethane	<	1.1	ug/L		
			1,1-Dichloroethene	<	1.7	ug/L		
			Dichloromethane (MeCl2)	B	8.4	ug/L		
			trans 1,2-Dichloroethene	<	1.8	ug/L		
			1,1-Dichloroethane	<	1.4	ug/L		
			2,2-Dichloropropane	<	5.2	ug/L		
			cis 1,2-Dichloroethene	<	1.6	ug/L		
			Chloroform	<	1.6	ug/L		
			Bromochloromethane	<	2.2	ug/L		
			1,1,1-Trichloroethane	<	2.4	ug/L		
			1,1-Dichloropropene	<	1.6	ug/L		
			Carbon Tetrachloride	<	2.2	ug/L		
			1,2-Dichloroethane	<	3.1	ug/L		
			Benzene		82	ug/L		
			Trichloroethene	<	2.2	ug/L		
			1,2-Dichloropropane	<	1.8	ug/L		
			Bromodichloromethane	<	2.0	ug/L		
			Dibromomethane	<	3.0	ug/L		
			cis 1,3-Dichloro,1-propene	<	2.5	ug/L		
			Toluene	U	2500	ug/L		
			trans 1,3-Dichloro,1-propene	<	3.6	ug/L		
			1,1,2-Trichloroethane	<	3.7	ug/L		
			1,2-Dibromoethane	<	3.7	ug/L		
			1,3-Dichloropropane	<	2.7	ug/L		
			Tetrachloroethene	<	1.5	ug/L		
			Dibromochloromethane	<	2.3	ug/L		
			Chlorobenzene	<	1.4	ug/L		
			1,1,1,2-Tetrachloroethane	<	1.5	ug/L		
			Ethylbenzene	U	600	ug/L		
			m/p Xylene	U	1700	ug/L		
			o-Xylene	U	900	ug/L		
			Styrene	<	1.4	ug/L		
			Bromoform	<	3.3	ug/L		
			Isopropylbenzene		87	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	2.7	ug/L		
			n-Propylbenzene		80	ug/L		
			Bromobenzene	<	1.6	ug/L		
			1,3,5-Trimethylbenzene	U	310	ug/L		
			2-Chlorotoluene	<	1.7	ug/L		
			4-Chlorotoluene	<	1.2	ug/L		
			tert-Butylbenzene	<	1.6	ug/L		
			1,2,4-Trimethylbenzene	U	600	ug/L		
			sec-Butylbenzene		15	ug/L		
			p-Isopropyltoluene		96	ug/L		
			1,3-Dichlorobenzene	<	1.4	ug/L		
			1,4-Dichlorobenzene	<	1.5	ug/L		
			n-Butylbenzene	<	1.5	ug/L		
			1,2-Dichlorobenzene	<	1.6	ug/L		
			1,2-Dibromo-3-chloropropane	<	3.5	ug/L		
			1,2,4-Trichlorobenzene	<	1.9	ug/L		
			Hexachlorobutadiene	<	1.8	ug/L		
			Naphthalene	U	210	ug/L		
			1,2,3-Trichlorobenzene	<	2.4	ug/L		

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
D-31867	WO GW202XXX01XR		SURROGATE RECOVERIES:			07/15/95	07/20/95
		1.00	Toluene-D8 (88-110)	88	%		
			Dibromofluoromethane (86-118)	111	%		
			4-Bromofluorobenzene (86-115)	81 *	%		

* - Out of control limits.

Analyzed By: _____

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
D-31868	WO GWBTXX4XXY01XR	1.00	Dichlorodifluoromethane	<	7.5	ug/L	07/15/95	07/20/95
			Chloromethane	J	5.5	ug/L		
			Vinyl chloride	<	1.4	ug/L		
			Bromomethane	<	2.7	ug/L		
			Chloroethane	<	2.0	ug/L		
			Trichlorofluoromethane	<	1.1	ug/L		
			1,1-Dichloroethene	<	1.7	ug/L		
			Dichloromethane (MeCl2)	B	8.6	ug/L		
			trans 1,2-Dichloroethene	<	1.8	ug/L		
			1,1-Dichloroethane	<	1.4	ug/L		
			2,2-Dichloropropane	<	5.2	ug/L		
			cis 1,2-Dichloroethene	<	1.6	ug/L		
			Chloroform	<	1.6	ug/L		
			Bromochloromethane	<	2.2	ug/L		
			1,1,1-Trichloroethane	<	2.4	ug/L		
			1,1-Dichloropropene	<	1.6	ug/L		
			Carbon Tetrachloride	<	2.2	ug/L		
			1,2-Dichloroethane	<	3.1	ug/L		
			Benzene	<	2.2	ug/L		
			Trichloroethene	<	2.2	ug/L		
			1,2-Dichloropropane	<	1.8	ug/L		
			Bromodichloromethane	<	2.0	ug/L		
			Dibromomethane	<	3.0	ug/L		
			cis 1,3-Dichloro,1-propene	<	2.5	ug/L		
			Toluene	<	1.9	ug/L		
			trans 1,3-Dichloro,1-propene	<	3.6	ug/L		
			1,1,2-Trichloroethane	<	3.7	ug/L		
			1,2-Dibromoethane	<	3.7	ug/L		
			1,3-Dichloropropane	<	2.7	ug/L		
			Tetrachloroethene	<	1.5	ug/L		
			Dibromochloromethane	<	2.3	ug/L		
			Chlorobenzene	<	1.4	ug/L		
			1,1,1,2-Tetrachloroethane	<	1.5	ug/L		
			Ethylbenzene	<	1.4	ug/L		
			m/p Xylene	<	2.0	ug/L		
			o-Xylene	<	1.5	ug/L		
			Styrene	<	1.4	ug/L		
			Bromoform	<	3.3	ug/L		
			Isopropylbenzene	<	1.5	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	2.7	ug/L		
			n-Propylbenzene	<	1.4	ug/L		
			Bromobenzene	<	1.6	ug/L		
			1,3,5-Trimethylbenzene	<	1.5	ug/L		
			2-Chlorotoluene	<	1.7	ug/L		
			4-Chlorotoluene	<	1.2	ug/L		
			tert-Butylbenzene	<	1.6	ug/L		
			1,2,4-Trimethylbenzene	<	1.4	ug/L		
			sec-Butylbenzene	<	1.4	ug/L		
			p-Isopropyltoluene	<	1.4	ug/L		
			1,3-Dichlorobenzene	<	1.4	ug/L		
			1,4-Dichlorobenzene	<	1.5	ug/L		
			n-Butylbenzene	<	1.5	ug/L		
			1,2-Dichlorobenzene	<	1.6	ug/L		
			1,2-Dibromo-3-chloropropane	<	3.5	ug/L		
			1,2,4-Trichlorobenzene	<	1.9	ug/L		
			Hexachlorobutadiene	<	1.8	ug/L		
			Naphthalene	<	2.7	ug/L		
			1,2,3-Trichlorobenzene	<	2.4	ug/L		

Analyzed By: [signature]

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260A

November 20, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
D-31868	WO GWBTXX4XXY01XR		SURROGATE RECOVERIES:			07/15/95	07/20/95
		1.00	Toluene-D8 (88-110)	118 *	%		
			Dibromofluoromethane (86-118)	116	%		
			4-Bromofluorobenzene (86-115)	108	%		

* - Out of control limits.

Analyzed By: [signature]

Reviewed By: MRK

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260A

12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Analyzed
METHOD BLANK	1.0	Dichlorodifluoromethane	<	7.5	ug/L	07/20/95
		Chloromethane	<	2.1	ug/L	
		Vinyl chloride	<	1.4	ug/L	
		Bromomethane	<	2.7	ug/L	
		Chloroethane	<	2.0	ug/L	
		Trichlorofluoromethane	<	1.1	ug/L	
		1,1-Dichloroethane	<	1.7	ug/L	
		Dichloromethane (MeCl2)		8.1	ug/L	
		trans-1,2-Dichloroethene	<	1.8	ug/L	
		1,1-Dichloroethane	<	1.4	ug/L	
		2,2-Dichloropropane	<	5.2	ug/L	
		cis 1,2-Dichloroethene	<	1.6	ug/L	
		Chloroform	<	1.6	ug/L	
		Bromochloromethane	<	2.2	ug/L	
		1,1,1-Trichloroethane	<	2.4	ug/L	
		1,1-Dichloropropene	<	1.6	ug/L	
		Carbon Tetrachloride	<	2.2	ug/L	
		1,2-Dichloroethane	<	3.1	ug/L	
		Benzene	<	2.2	ug/L	
		Trichloroethene	<	2.2	ug/L	
		1,2-Dichloropropane	<	1.8	ug/L	
		Bromodichloromethane	<	2.0	ug/L	
		Dibromomethane	<	3.0	ug/L	
		cis 1,3-Dichloro,1-propene	<	2.5	ug/L	
		Toluene	<	1.9	ug/L	
		trans 1,3-Dichloro,1-propene	<	3.6	ug/L	
		1,1,2-Trichloroethane	<	3.7	ug/L	
		1,2-Dibromoethane	<	3.7	ug/L	
		1,3-Dichloropropane	<	2.7	ug/L	
		Tetrachloroethane	<	1.5	ug/L	
		Dibromochloromethane	<	2.3	ug/L	
		Chlorobenzene	<	1.4	ug/L	
		1,1,1,2-Trachloroethane	<	1.5	ug/L	
		Ethylbenzene	<	1.4	ug/L	
		m/p Xylene	<	2.0	ug/L	
		o-Xylene	<	1.5	ug/L	
		Styrene	<	1.4	ug/L	
		Bromoform	<	3.3	ug/L	
		Isopropylbenzene	<	1.5	ug/L	
		1,1,2,2-Tetrachloroethane	<	5.0	ug/L	
		1,2,3-Trichloropropane	<	2.7	ug/L	
		n-Propylbenzene	<	1.4	ug/L	
		Bromobenzene	<	1.6	ug/L	
		1,3,5-Trimethylbenzene	<	1.5	ug/L	
		2-Chlorotoluene	<	1.7	ug/L	
		4-Chlorotoluene	<	1.2	ug/L	
		tert-Butylbenzene	<	1.6	ug/L	
		1,2,4-Trimethylbenzene	<	1.4	ug/L	

Reviewed By: 11.14.96, Analyst

Approved By: 11.14.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260A

12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Analyzed
METHOD BLANK	1.0	sec-Butylbenzene	<	1.4	ug/L	07/20/95
		p-Isopropyltoluene	<	1.4	ug/L	
		1,3-Dichlorobenzene	<	1.4	ug/L	
		1,4-Dichlorobenzene	<	1.5	ug/L	
		n-Butylbenzene	<	1.5	ug/L	
		1,2-Dichlorobenzene	<	1.6	ug/L	
		1,2-Dibromo-3-chloropropane	<	3.5	ug/L	
		1,2,4-Trichlorobenzene	<	1.9	ug/L	
		Hexachlorobutadiene	<	1.8	ug/L	
		Naphthalene	<	2.7	ug/L	
		1,2,3-Trichlorobenzene	<	2.4	ug/L	

Surrogate Recoveries: (%)

Toluene-D8 (88-110)	117 *
Dibromofluoromethane (86-118)	113
4-Bromofluorobenzene (86-115)	109

* - Out of Control Limits.

Reviewed By: 11.14.96, Analyst

Approved By: 11.14.96

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

SEMI-VOLATILE ORGANICS

November 17, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Extracted	Date Analyzed
D-31751	WOGW704XXX01 XR	1.00	Phenol	<	100	ug/L	07/11/95	07/16/95	07/21/95
			bis(2-Chloroethyl)ether	<	100	ug/L			
			2-Chlorophenol	<	100	ug/L			
			1,3-Dichlorobenzene	<	100	ug/L			
			1,4-Dichlorobenzene	<	100	ug/L			
			1,2-Dichlorobenzene	<	100	ug/L			
			2-Methylphenol	<	100	ug/L			
			bis(2-Chloroisopropyl)ether	<	100	ug/L			
			4-Methylphenol	<	100	ug/L			
			N-Nitroso-di-n-propylamine	<	100	ug/L			
			Hexachloroethane	<	100	ug/L			
			Nitrobenzene	<	100	ug/L			
			Isophorone	<	100	ug/L			
			2-Nitrophenol	<	100	ug/L			
			2,4-Dimethylphenol	<	100	ug/L			
			bis(2-Chloroethoxy)methane	<	100	ug/L			
			2,4-Dichlorophenol	<	250	ug/L			
			1,2,4-Trichlorobenzene	<	100	ug/L			
			Naphthalene		260	ug/L			
			4-Chloroaniline	<	100	ug/L			
			Hexachlorobutadiene	<	100	ug/L			
			4-Chloro-3-methylphenol	<	100	ug/L			
			2-Methylnaphthalene		300	ug/L			
			Hexachlorocyclopentadiene	<	100	ug/L			
			2,4,6-Trichlorophenol	<	100	ug/L			
			2,4,5-Trichlorophenol	<	250	ug/L			
			2-Chloronaphthalene	<	100	ug/L			
			2-Nitroaniline	<	250	ug/L			
			Dimethyl phthalate	<	100	ug/L			
			Acenaphthylene	<	100	ug/L			
			2,6-Dinitrotoluene	<	100	ug/L			
			3-Nitroaniline	<	250	ug/L			
			Acenaphthene	<	100	ug/L			
			2,4-Dinitrophenol	<	250	ug/L			
			4-Nitrophenol	<	250	ug/L			
			Dibenzofuran	<	100	ug/L			
			2,4-Dinitrotoluene	<	100	ug/L			
			Diethylphthalate	<	100	ug/L			
			4-Chlorophenyl-phenylether	<	100	ug/L			
			Fluorene	<	100	ug/L			
			4-Nitroaniline	<	250	ug/L			
			4,6-Dinitro-2-methylphenol	<	250	ug/L			
			N-Nitrosodiphenylamine	<	100	ug/L			
			4-Bromophenyl-phenylether	<	100	ug/L			
			Hexachlorobenzene	<	100	ug/L			
			Pentachlorophenol	<	250	ug/L			
			Phenanthrene	<	100	ug/L			
			Anthracene	<	100	ug/L			
			Di-n-butylphthlate	JB	34	ug/L			
			Fluoranthene	<	100	ug/L			
			Pyrene	<	100	ug/L			
			Butylbenzylphthalate	<	100	ug/L			
			3,3-Dichlorobenzidine	<	100	ug/L			
			Benzo(a)anthracene	<	100	ug/L			
			Chrysene	<	100	ug/L			
			bis(2-Ethylhexyl)phthalate		440	ug/L			
			Di-n-octyl phthalate	J	21	ug/L			
			Benzo(b)fluoranthene	<	100	ug/L			
			Benzo(k)fluoranthene	<	100	ug/L			
			Benzo(a)pyrene	<	100	ug/L			
			Indeno(1,2,3-cd)pyrene	<	100	ug/L			
			Dibenz(a,h)anthracene	<	100	ug/L			
			Benzo(g,h,i)perylene	<	100	ug/L			
			Carbazole	<	100	ug/L			

Analyzed By: EJ

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

SEMI-VOLATILE ORGANICS

November 17, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Extracted	Date Analyzed
D-31751	WOGW704XXX01 XR		SURROGATE RECOVERIES:			07/11/95	07/16/95	07/21/95
			Nitrobenzene-d5 (35-114)	**	%			
		1.00	2-Fluorobiphenyl (43-116)	53	%			
			Terphenyl-d14 (33-141)	39	%			
			1,2-Dichlorobenzene-d4 (16-110) Advisory	42	%			
			Phenol-d5 (10-110)	44	%			
			2-Fluorophenol (21-110)	71	%			
			2,4,6-Tribromophenol (10-123)	89	%			
			2-Chlorophenol-d4 (33-110) Advisory	72	%			

** Surrogate diluted out.

Analyzed By: EJI

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

SEMI-VOLATILE ORGANICS

November 17, 1995

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Extracted	Date Analyzed
D-31753	WOBSXX1XXX01 XR	1.00	Phenol	<	10	ug/L	07/10/95	07/16/95	07/20/95
			bis(2-Chloroethyl)ether	<	10	ug/L			
			2-Chlorophenol	<	10	ug/L			
			1,3-Dichlorobenzene	<	10	ug/L			
			1,4-Dichlorobenzene	<	10	ug/L			
			1,2-Dichlorobenzene	<	10	ug/L			
			2-Methylphenol	<	10	ug/L			
			bis(2-Chloroisopropyl)ether	<	10	ug/L			
			4-Methylphenol	<	10	ug/L			
			N-Nitroso-di-n-propylamine	<	10	ug/L			
			Hexachloroethane	<	10	ug/L			
			Nitrobenzene	<	10	ug/L			
			Isophorone	<	10	ug/L			
			2-Nitrophenol	<	10	ug/L			
			2,4-Dimethylphenol	<	10	ug/L			
			bis(2-Chloroethoxy)methane	<	10	ug/L			
			2,4-Dichlorophenol	<	25	ug/L			
			1,2,4-Trichlorobenzene	<	10	ug/L			
			Naphthalene	<	10	ug/L			
			4-Chloroaniline	<	10	ug/L			
			Hexachlorobutadiene	<	10	ug/L			
			4-Chloro-3-methylphenol	<	10	ug/L			
			2-Methylnaphthalene	<	10	ug/L			
			Hexachlorocyclopentadiene	<	10	ug/L			
			2,4,6-Trichlorophenol	<	10	ug/L			
			2,4,5-Trichlorophenol	<	25	ug/L			
			2-Chloronaphthalene	<	10	ug/L			
			2-Nitroaniline	<	25	ug/L			
			Dimethyl phthalate	<	10	ug/L			
			Acenaphthylene	<	10	ug/L			
			2,6-Dinitrotoluene	<	10	ug/L			
			3-Nitroaniline	<	25	ug/L			
			Acenaphthene	<	10	ug/L			
			2,4-Dinitrophenol	<	25	ug/L			
			4-Nitrophenol	<	25	ug/L			
			Dibenzofuran	<	10	ug/L			
			2,4-Dinitrotoluene	<	10	ug/L			
			Diethylphthalate	<	10	ug/L			
			4-Chlorophenyl-phenylether	<	10	ug/L			
			Fluorene	<	10	ug/L			
			4-Nitroaniline	<	25	ug/L			
			4,6-Dinitro-2-methylphenol	<	25	ug/L			
			N-Nitrosodiphenylamine	<	10	ug/L			
			4-Bromophenyl-phenylether	<	10	ug/L			
			Hexachlorobenzene	<	10	ug/L			
			Pentachlorophenol	<	25	ug/L			
			Phenanthrene	<	10	ug/L			
			Anthracene	<	10	ug/L			
			Di-n-butylphthlate	B	42	ug/L			
			Fluoranthene	<	10	ug/L			
			Pyrene	<	10	ug/L			
			Butylbenzylphthalate	<	10	ug/L			
			3,3-Dichlorobenzidine	<	10	ug/L			
			Benzo(a)anthracene	<	10	ug/L			
			Chrysene	<	10	ug/L			
			bis(2-Ethylhexyl)phthalate	<	10	ug/L			
			Di-n-octyl phthalate	<	10	ug/L			
			Benzo(b)fluoranthene	<	10	ug/L			
			Benzo(k)fluoranthene	<	10	ug/L			
			Benzo(a)pyrene	<	10	ug/L			
			Indeno(1,2,3-cd)pyrene	<	10	ug/L			
			Dibenz(a,h)anthracene	<	10	ug/L			
			Benzo(g,h,i)perylene	<	10	ug/L			
			Carbazole	<	10	ug/L			

Analyzed By: ESI

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

SEMI-VOLATILE ORGANICS

November 17, 1995

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Extracted	Date Analyzed
D-31753	WOBSXX1XXX01 XR		SURROGATE RECOVERIES:			07/10/95	07/16/95	07/20/95
		1.00	Nitrobenzene-d5 (35-114)	58	%			
			2-Fluorobiphenyl (43-116)	65	%			
			Terphenyl-d14 (33-141)	56	%			
			1,2-Dichlorobenzene-d4 (16-110) Advisory	57	%			
			Phenol-d5 (10-110)	53	%			
			2-Fluorophenol (21-110)	46	%			
			2,4,6-Tribromophenol (10-123)	63	%			
			2-Chlorophenol-d4 (33-110) Advisory	64	%			

Analyzed By: PSI

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

CONTRACTOR LABORATORY

METHOD 8270: SEMI-VOLATILE ORGANICS - WATER (ug/L) 12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Extracted	Date Analyzed
METHOD BLANK	1.0	Phenol	<	10	ug/L	07/16/95	07/20/95
		bis(2-Chloroethyl)Ether	<	10	ug/L		
		2-Chlorophenol	<	10	ug/L		
		1,3-Dichlorobenzene	<	10	ug/L		
		1,4-Dichlorobenzene	<	10	ug/L		
		1,2-Dichlorobenzene	<	10	ug/L		
		2-Methylphenol	<	10	ug/L		
		bis(2-chloroisopropyl)ether	<	10	ug/L		
		4-Methylphenol	<	10	ug/L		
		N-Nitroso-Di-n-propylamine	<	10	ug/L		
		Hexachloroethane	<	10	ug/L		
		Nitrobenzene	<	10	ug/L		
		Isophorone	<	10	ug/L		
		2-Nitrophenol	<	10	ug/L		
		2,4-Dimethylphenol	<	10	ug/L		
		bis(2-Chloroethoxy)methane	<	10	ug/L		
		2,4-Dichlorophenol	<	25	ug/L		
		1,2,4-Trichlorobenzene	<	10	ug/L		
		Naphthalene	<	10	ug/L		
		4-Chloroaniline	<	10	ug/L		
		Hexachlorobutadiene	<	10	ug/L		
		4-Chloro-3-methylphenol	<	10	ug/L		
		2-Methylnaphthalene	<	10	ug/L		
		Hexachlorocyclopentadiene	<	10	ug/L		
		2,4,6-Trichlorophenol	<	10	ug/L		
		2,4,5-Trichlorophenol	<	25	ug/L		
		2-Chloronaphthalene	<	10	ug/L		
		2-Nitroaniline	<	25	ug/L		
		Dimethylphthalate	<	10	ug/L		
		Acenaphthylene	<	10	ug/L		
		2,6-Dinitrotoluene	<	10	ug/L		
		3-Nitroaniline	<	25	ug/L		
		Acenaphthene	<	10	ug/L		
		2,4-Dinitrophenol	<	25	ug/L		
		4-Nitrophenol	<	25	ug/L		
		Dibenzofuran	<	10	ug/L		
		2,4-Dinitrotoluene	<	10	ug/L		
		Diethylphthalate	<	10	ug/L		
		4-Chlorophenyl-phenylether	<	10	ug/L		
		Fluorene	<	10	ug/L		
		4-Nitroaniline	<	25	ug/L		
		4,6-Dinitro-2-methylphenol	<	25	ug/L		
		N-Nitrosodiphenylamine	<	10	ug/L		
		4-Bromophenyl-phenylether	<	10	ug/L		
		Hexachlorobenzene	<	10	ug/L		
		Pentachlorophenol	<	25	ug/L		
		Phenanthrene	<	10	ug/L		
		Anthracene	<	10	ug/L		

Analyzed By: [illegible]

Approved By: 11.14.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

CONTRACTOR LABORATORY

METHOD 8270: SEMI-VOLATILE ORGANICS - WATER (ug/L) 12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Extracted	Date Analyzed
METHOD BLANK	1.0	Di-n-butylphthalate		43	ug/L	07/16/95	07/20/95
		Fluoranthene	<	10	ug/L		
		Pyrene	<	10	ug/L		
		Butylbenzylphthalate	J	2.0	ug/L		
		3,3'-Dichlorobenzidine	<	10	ug/L		
		Benzo(a)anthracene	<	10	ug/L		
		Chyrsene	<	10	ug/L		
		bis(2-Ethylhexyl)phthalate	<	10	ug/L		
		Di-n-octylphthalate	<	10	ug/L		
		Benzo(b)fluoranthene	<	10	ug/L		
		Benzo(k)fluoranthene	<	10	ug/L		
		Benzo(a)pyrene	<	10	ug/L		
		Indeno(1,2,3-cd)-pyrene	<	10	ug/L		
		Dibenzo(a,h)anthracene	<	10	ug/L		
		Benzo(g,h,i)perylene	<	10	ug/L		
		Carbazole					
		Surrogate Recoveries: (%)					
		2-Fluorobiphenyl (43-116)		71	%		
		Terphenyl-d14(33-141)		55	%		
		1,2-Dichlorobenzene-d4(16-110)Advisory		64	%		
		Phenol-d5(10-110)		67	%		
		2-Fluorophenol(21-110)		55	%		
		2,4,6-Tribromophenol(10-123)		71	%		
		2-Chlorophenol-d4(33-110)Advisory		67	%		

Analyzed By: E3I

Approved By: 11.14.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260A

12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Analyzed
METHOD BLANK	1.0	Dichlorodifluoromethane	<	7.5	ug/L	07/13/95
		Chloromethane	<	2.1	ug/L	
		Vinyl chloride	<	1.4	ug/L	
		Bromomethane	<	2.7	ug/L	
		Chloroethane	<	2.0	ug/L	
		Trichlorofluoromethane	<	1.1	ug/L	
		1,1-Dichloroethene	<	1.7	ug/L	
		Dichloromethane (MeCl2)		11	ug/L	
		trans-1,2-Dichloroethene	<	1.8	ug/L	
		1,1-Dichloroethane	<	1.4	ug/L	
		2,2-Dichloropropane	<	5.2	ug/L	
		cis 1,2-Dichloroethene	<	1.6	ug/L	
		Chloroform	<	1.6	ug/L	
		Bromochloromethane	<	2.2	ug/L	
		1,1,1-Trichloroethane	<	2.4	ug/L	
		1,1-Dichloropropene	<	1.6	ug/L	
		Carbon Tetrachloride	<	2.2	ug/L	
		1,2-Dichloroethane	<	3.1	ug/L	
		Benzene	<	2.2	ug/L	
		Trichloroethene	<	2.2	ug/L	
		1,2-Dichloropropane	<	1.8	ug/L	
		Bromodichloromethane	<	2.0	ug/L	
		Dibromomethane	<	3.0	ug/L	
		cis 1,3-Dichloro,1-propene	<	2.5	ug/L	
		Toluene	<	1.9	ug/L	
		trans 1,3-Dichloro,1-propane	<	3.6	ug/L	
		1,1,2-Trichloroethane	<	3.7	ug/L	
		1,2-Dibromoethane	<	3.7	ug/L	
		1,3-Dichloropropane	<	2.7	ug/L	
		Tetrachloroethene	<	1.5	ug/L	
		Dibromochloromethane	<	2.3	ug/L	
		Chlorobenzene	<	1.4	ug/L	
		1,1,1,2-Trachloroethane	<	1.5	ug/L	
		Ethylbenzene	<	1.4	ug/L	
		m/p Xylene	<	2.0	ug/L	
		o-Xylene	<	1.5	ug/L	
		Styrene	<	1.4	ug/L	
		Bromoform	<	3.3	ug/L	
		Isopropylbenzene	<	1.5	ug/L	
		1,1,2,2-Tetrachloroethane	<	5.0	ug/L	
		1,2,3-Trichloropropane	<	2.7	ug/L	
		n-Propylbenzene	<	1.4	ug/L	
		Bromobenzene	<	1.6	ug/L	
		1,3,5-Trimethylbenzene	<	1.5	ug/L	
		2-Chlorotoluene	<	1.7	ug/L	
		4-Chlorotoluene	<	1.2	ug/L	
		tert-Butylbenzene	<	1.6	ug/L	
		1,2,4-Trimethylbenzene	<	1.4	ug/L	

Reviewed By: 11.14.96, Analyst

Approved By: 11.14.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANIC RESULTS - METHOD 8260A

12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Analyzed
METHOD BLANK	1.0	sec-Butylbenzene	<	1.4	ug/L	07/13/95
		p-Isopropyltoluene	<	1.4	ug/L	
		1,3-Dichlorobenzene	<	1.4	ug/L	
		1,4-Dichlorobenzene	<	1.5	ug/L	
		n-Butylbenzene	<	1.5	ug/L	
		1,2-Dichlorobenzene	<	1.6	ug/L	
		1,2-Dibromo-3-chloropropane	<	3.5	ug/L	
		1,2,4-Trichlorobenzene	<	1.9	ug/L	
		Hexachlorobutadiene	<	1.8	ug/L	
		Naphthalene	<	2.7	ug/L	
		1,2,3-Trichlorobenzene	<	2.4	ug/L	

Surrogate Recoveries: (%)

Toluene-D8 (88-110)	112 *
Dibromofluoromethane (86-118)	137 *
4-Bromofluorobenzene (86-115)	123 *

* - Out of Control Limits.

Reviewed By: 11.14.96, Analyst

Approved By: CH 11.14.96

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY
CONTRACTOR LABORATORY
METHOD 8270: SEMI-VOLATILE ORGANICS - WATER (ug/L) 12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Extracted	Date Analyzed
METHOD BLANK	1.0	Phenol	<	10	ug/L	07/21/95	07/26/95
		bis(2-Chloroethyl)Ether	<	10	ug/L		
		2-Chlorophenol	<	10	ug/L		
		1,3-Dichlorobenzene	<	10	ug/L		
		1,4-Dichlorobenzene	<	10	ug/L		
		1,2-Dichlorobenzene	<	10	ug/L		
		2-Methylphenol	<	10	ug/L		
		bis(2-chloroisopropyl)ether	<	10	ug/L		
		4-Methylphenol	<	10	ug/L		
		N-Nitroso-Di-n-propylamine	<	10	ug/L		
		Hexachloroethane	<	10	ug/L		
		Nitrobenzene	<	10	ug/L		
		Isophorone	<	10	ug/L		
		2-Nitrophenol	<	10	ug/L		
		2,4-Dimethylphenol	<	10	ug/L		
		bis(2-Chloroethoxy)methane	<	10	ug/L		
		2,4-Dichlorophenol	<	25	ug/L		
		1,2,4-Trichlorobenzene	<	10	ug/L		
		Naphthalene	<	10	ug/L		
		4-Chloroaniline	<	10	ug/L		
		Hexachlorobutadiene	<	10	ug/L		
		4-Chloro-3-methylphenol	<	10	ug/L		
		2-Methylnaphthalene	<	10	ug/L		
		Hexachlorocyclopentadiene	<	10	ug/L		
		2,4,6-Trichlorophenol	<	10	ug/L		
		2,4,5-Trichlorophenol	<	25	ug/L		
		2-Chloronaphthalene	<	10	ug/L		
		2-Nitroaniline	<	25	ug/L		
		Dimethylphthalate	<	10	ug/L		
		Acenaphthylene	<	10	ug/L		
		2,6-Dinitrotoluene	<	10	ug/L		
		3-Nitroaniline	<	25	ug/L		
		Acenaphthene	<	10	ug/L		
		2,4-Dinitrophenol	<	25	ug/L		
		4-Nitrophenol	<	25	ug/L		
		Dibenzofuran	<	10	ug/L		
		2,4-Dinitrotoluene	<	10	ug/L		
		Diethylphthalate	<	10	ug/L		
		4-Chlorophenyl-phenylether	<	10	ug/L		
		Fluorene	<	10	ug/L		
		4-Nitroaniline	<	25	ug/L		
		4,6-Dinitro-2-methylphenol	<	25	ug/L		
		N-Nitrosodiphenylamine	<	10	ug/L		
		4-Bromophenyl-phenylether	<	10	ug/L		
		Hexachlorobenzene	<	10	ug/L		
		Pentachlorophenol	<	25	ug/L		
		Phenanthrene	<	10	ug/L		
		Anthracene	<	10	ug/L		

Analyzed By: EII

Approved By: 11.14.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY
CONTRACTOR LABORATORY
METHOD 8270: SEMI-VOLATILE ORGANICS - WATER (ug/L) 12-Nov-96

Field Description	Dil Factor	Analyte		Result	Units	Date Extracted	Date Analyzed
METHOD BLANK	1.0	Di-n-butylphthalate		48	ug/L	07/21/95	07/26/95
		Fluoranthene	<	10	ug/L		
		Pyrene	<	10	ug/L		
		Butylbenzylphthalate	<	10	ug/L		
		3,3'-Dichlorobenzidine	<	10	ug/L		
		Benzo(a)anthracene	<	10	ug/L		
		Chyrsene	<	10	ug/L		
		bis(2-Ethylhexyl)phthalate	<	10	ug/L		
		Di-n-octylphthalate	<	10	ug/L		
		Benzo(b)fluoranthene	<	10	ug/L		
		Benzo(k)fluoranthene	<	10	ug/L		
		Benzo(a)pyrene	<	10	ug/L		
		Indeno(1,2,3-cd)-pyrene	<	10	ug/L		
		Dibenzo(a,h)anthracene	<	10	ug/L		
		Benzo(g,h,i)perylene	<	10	ug/L		
		Carbazole					
		Surrogate Recoveries: (%)					
		Nitrobenzene-d5 (35-114)		79	%		
		2-Fluorobiphenyl(43-116)		71	%		
		Terphenyl-d14(33-141)		67	%		
		1,2-Dichlorobenzene-d4(16-110)Advisory		65	%		
		Phenol-d5(10-110)		82	%		
		2-Fluorophenol(21-110)		77	%		
		2,4,6-Tribromophenol (10-123)		71			
		2-Chlorophenol-d4 (33-110) Advisory		77			

Analyzed By: EGI

Approved By: 11.14.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260

September 11, 1996

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
E-34782	WOBTXX2XXX96XR	1.00	Dichlorodifluoromethane	<	10	ug/L	07/09/96	08/15/96
			Chloromethane	<	10	ug/L		
			Vinyl chloride	<	5.0	ug/L		
			Bromomethane	<	10	ug/L		
			Chloroethane	<	10	ug/L		
			Trichlorofluoromethane	<	5.0	ug/L		
			1,1-Dichloroethene	<	5.0	ug/L		
			Methylene chloride	<	5.0	ug/L		
			trans 1,2-Dichloroethene	<	5.0	ug/L		
			1,1-Dichloroethane	<	5.0	ug/L		
			2,2-Dichloropropane	<	5.0	ug/L		
			cis 1,2-Dichloroethene	<	5.0	ug/L		
			Chloroform	<	5.0	ug/L		
			Bromochloromethane	<	5.0	ug/L		
			1,1,1-Trichloroethane	<	5.0	ug/L		
			1,1-Dichloropropene	<	5.0	ug/L		
			Carbon Tetrachloride	<	5.0	ug/L		
			Benzene	<	5.0	ug/L		
			1,2-Dichloroethane	<	5.0	ug/L		
			Trichloroethene	<	5.0	ug/L		
			1,2-Dichloropropane	<	5.0	ug/L		
			Bromodichloromethane	<	5.0	ug/L		
			Dibromomethane	<	5.0	ug/L		
			cis 1,3-Dichloropropene	<	5.0	ug/L		
			Toluene	<	5.0	ug/L		
			trans 1,3-Dichloropropene	<	5.0	ug/L		
			1,1,2-Trichloroethane	<	5.0	ug/L		
			1,2-Dibromoethane	<	5.0	ug/L		
			Tetrachloroethene	<	5.0	ug/L		
			1,3-Dichloropropane	<	5.0	ug/L		
			Dibromochloromethane	<	5.0	ug/L		
			Chlorobenzene	<	5.0	ug/L		
			Ethylbenzene	<	5.0	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			Xylene (total)	<	5.0	ug/L		
			1,3-Dichlorobenzene	<	5.0	ug/L		
			Styrene	<	5.0	ug/L		
			1,4-Dichlorobenzene	<	5.0	ug/L		
			Bromoform	<	5.0	ug/L		
			1,2-Dichlorobenzene	<	5.0	ug/L		
			Isopropylbenzene	<	5.0	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			Bromobenzene	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	5.0	ug/L		
			n-Propylbenzene	<	5.0	ug/L		
			2-Chlorotoluene	<	5.0	ug/L		
			1,3,5-Trimethylbenzene	<	5.0	ug/L		
			4-Chlorotoluene	<	5.0	ug/L		
			tert-Butylbenzene	<	5.0	ug/L		
			1,2,4-Trimethylbenzene	<	5.0	ug/L		
			sec-Butylbenzene	<	5.0	ug/L		
			p-Isopropyltoluene	<	5.0	ug/L		
			n-Butylbenzene	<	5.0	ug/L		
			1,2-Dibromo-3-chloropropane	<	5.0	ug/L		
			1,2,4-Trichlorobenzene	<	5.0	ug/L		
			Hexachlorobutadiene	<	5.0	ug/L		
			Naphthalene	<	5.0	ug/L		
			1,2,3-Trichlorobenzene	<	5.0	ug/L		

Analyzed By: GTEL

09.13.96

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260

September 11, 1996

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
E-34782	WOBTXX2XXX96XR		SURROGATE RECOVERIES:			07/09/96	08/15/96
		1.00	1,2-Dichloroethane-d4 (76-114)	83	%		
			Toluene-d8 (88-110)	100	%		
			Bromofluorobenzene (86-115)	95	%		

Analyzed By: GTEL

09.13.96

Approved By: _____, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260

September 11, 1996

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
E-34783	WOBSXX2XXX96XR	1.00	Dichlorodifluoromethane	<	10	ug/L	07/09/96	08/15/96
			Chloromethane	<	10	ug/L		
			Vinyl chloride	<	5.0	ug/L		
			Bromomethane	<	10	ug/L		
			Chloroethane	<	10	ug/L		
			Trichlorofluoromethane	<	5.0	ug/L		
			1,1-Dichloroethene	<	5.0	ug/L		
			Methylene chloride	<	5.0	ug/L		
			trans 1,2-Dichloroethene	<	5.0	ug/L		
			1,1-Dichloroethane	<	5.0	ug/L		
			2,2-Dichloropropane	<	5.0	ug/L		
			cis 1,2-Dichloroethene	<	5.0	ug/L		
			Chloroform	<	5.0	ug/L		
			Bromochloromethane	<	5.0	ug/L		
			1,1,1-Trichloroethane	<	5.0	ug/L		
			1,1-Dichloropropene	<	5.0	ug/L		
			Carbon Tetrachloride	<	5.0	ug/L		
			Benzene	<	5.0	ug/L		
			1,2-Dichloroethane	<	5.0	ug/L		
			Trichloroethene	<	5.0	ug/L		
			1,2-Dichloropropane	<	5.0	ug/L		
			Bromodichloromethane	<	5.0	ug/L		
			Dibromomethane	<	5.0	ug/L		
			cis 1,3-Dichloropropene	<	5.0	ug/L		
			Toluene	<	5.0	ug/L		
			trans 1,3-Dichloropropene	<	5.0	ug/L		
			1,1,2-Trichloroethane	<	5.0	ug/L		
			1,2-Dibromoethane	<	5.0	ug/L		
			Tetrachloroethene	<	5.0	ug/L		
			1,3-Dichloropropane	<	5.0	ug/L		
			Dibromochloromethane	<	5.0	ug/L		
			Chlorobenzene	<	5.0	ug/L		
			Ethylbenzene	<	5.0	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			Xylene (total)	<	5.0	ug/L		
			1,3-Dichlorobenzene	<	5.0	ug/L		
			Styrene	<	5.0	ug/L		
			1,4-Dichlorobenzene	<	5.0	ug/L		
			Bromoform	<	5.0	ug/L		
			1,2-Dichlorobenzene	<	5.0	ug/L		
			Isopropylbenzene	<	5.0	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			Bromobenzene	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	5.0	ug/L		
			n-Propylbenzene	<	5.0	ug/L		
			2-Chlorotoluene	<	5.0	ug/L		
			1,3,5-Trimethylbenzene	<	5.0	ug/L		
			4-Chlorotoluene	<	5.0	ug/L		
			tert-Butylbenzene	<	5.0	ug/L		
			1,2,4-Trimethylbenzene	<	5.0	ug/L		
			sec-Butylbenzene	<	5.0	ug/L		
			p-Isopropyltoluene	<	5.0	ug/L		
			n-Butylbenzene	<	5.0	ug/L		
			1,2-Dibromo-3-chloropropane	<	5.0	ug/L		
			1,2,4-Trichlorobenzene	<	5.0	ug/L		
			Hexachlorobutadiene	<	5.0	ug/L		
			Naphthalene	<	5.0	ug/L		
			1,2,3-Trichlorobenzene	<	5.0	ug/L		

Analyzed By: GTEL

roved By: 09.13.96 ,Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260

September 11, 1996

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
E-34783	WOBSXX2XXX96XR		SURROGATE RECOVERIES:			07/09/96	08/15/96
		1.00	1,2-Dichloroethane-d4 (76-114)	97	%		
			Toluene-d8 (88-110)	101	%		
			Bromofluorobenzene (86-115)	95	%		

Analyzed By: GTEL

Approved By: 09.13.96 Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260

September 11, 1996

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
E-34784	WOMW202XXX96XR	1.00	Dichlorodifluoromethane	<	500	ug/L	07/09/96	08/15/96
			Chloromethane	<	500	ug/L		
			Vinyl chloride	<	250	ug/L		
			Bromomethane	<	500	ug/L		
	DILUTION FACTOR = 50		Chloroethane	<	500	ug/L		
			Trichlorofluoromethane	<	250	ug/L		
			1,1-Dichloroethene	<	250	ug/L		
			Methylene chloride	<	250	ug/L		
			trans 1,2-Dichloroethene	<	250	ug/L		
			1,1-Dichloroethane	<	250	ug/L		
			2,2-Dichloropropane	<	250	ug/L		
			cis 1,2-Dichloroethene	<	250	ug/L		
			Chloroform	<	250	ug/L		
			Bromochloromethane	<	250	ug/L		
			1,1,1-Trichloroethane	<	250	ug/L		
			1,1-Dichloropropene	<	250	ug/L		
			Carbon Tetrachloride	<	250	ug/L		
			Benzene	<	250	ug/L		
			1,2-Dichloroethane	<	250	ug/L		
			Trichloroethene	<	250	ug/L		
			1,2-Dichloropropane	<	250	ug/L		
			Bromodichloromethane	<	250	ug/L		
			Dibromomethane	<	250	ug/L		
			cis 1,3-Dichloropropene	<	250	ug/L		
			Toluene	<	250	ug/L		
			trans 1,3-Dichloropropene	<	250	ug/L		
			1,1,2-Trichloroethane	<	250	ug/L		
			1,2-Dibromoethane	<	250	ug/L		
			Tetrachloroethene	<	250	ug/L		
			1,3-Dichloropropane	<	250	ug/L		
			Dibromochloromethane	<	250	ug/L		
			Chlorobenzene	<	250	ug/L		
			Ethylbenzene		1100	ug/L		
			1,1,2,2-Tetrachloroethane	<	250	ug/L		
			Xylene (total)		5700	ug/L		
			1,3-Dichlorobenzene	<	250	ug/L		
			Styrene	<	250	ug/L		
			1,4-Dichlorobenzene	<	250	ug/L		
			Bromoform	<	250	ug/L		
			1,2-Dichlorobenzene	<	250	ug/L		
			Isopropylbenzene	J	120	ug/L		
			1,1,2,2-Tetrachloroethane	<	250	ug/L		
			Bromobenzene	<	250	ug/L		
			1,2,3-Trichloropropane	<	250	ug/L		
			n-Propylbenzene	J	130	ug/L		
			2-Chlorotoluene	<	250	ug/L		
			1,3,5-Trimethylbenzene		280	ug/L		
			4-Chlorotoluene	<	250	ug/L		
			tert-Butylbenzene	<	250	ug/L		
			1,2,4-Trimethylbenzene		680	ug/L		
			sec-Butylbenzene	<	250	ug/L		
			p-Isopropyltoluene	<	250	ug/L		
			n-Butylbenzene	<	250	ug/L		
			1,2-Dibromo-3-chloropropane	<	250	ug/L		
			1,2,4-Trichlorobenzene	<	250	ug/L		
			Hexachlorobutadiene	<	250	ug/L		
			Naphthalene	J	180	ug/L		
			1,2,3-Trichlorobenzene	<	250	ug/L		

Analyzed By: GTEL

Approved By: 09.13.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260

September 11, 1996

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
E-34784	WOMW202XXX96XR		SURROGATE RECOVERIES:			07/09/96	08/15/96
		1.00	1,2-Dichloroethane-d4 (76-114)	98	%		
			Toluene-d8 (88-110)	102	%		
			Bromofluorobenzene (86-115)	99	%		

Analyzed By: GTEL

Approved By: 09.13.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260

September 11, 1996

Lab#	Field Description	Dil Factor	Analyte		Result	Units	Sample Date	Date Analyzed
E-34785	WOMW201XXX96XR	1.00	Dichlorodifluoromethane	<	10	ug/L	07/09/96	08/15/96
			Chloromethane	<	10	ug/L		
			Vinyl chloride	<	5.0	ug/L		
			Bromomethane	<	10	ug/L		
			Chloroethane	<	10	ug/L		
			Trichlorofluoromethane	<	5.0	ug/L		
			1,1-Dichloroethene	<	5.0	ug/L		
			Methylene chloride	<	5.0	ug/L		
			trans 1,2-Dichloroethene	<	5.0	ug/L		
			1,1-Dichloroethane	<	5.0	ug/L		
			2,2-Dichloropropane	<	5.0	ug/L		
			cis 1,2-Dichloroethene	<	5.0	ug/L		
			Chloroform	<	5.0	ug/L		
			Bromochloromethane	<	5.0	ug/L		
			1,1,1-Trichloroethane	<	5.0	ug/L		
			1,1-Dichloropropene	<	5.0	ug/L		
			Carbon Tetrachloride	<	5.0	ug/L		
			Benzene	<	5.0	ug/L		
			1,2-Dichloroethane	<	5.0	ug/L		
			Trichloroethene	<	5.0	ug/L		
			1,2-Dichloropropane	<	5.0	ug/L		
			Bromodichloromethane	<	5.0	ug/L		
			Dibromomethane	<	5.0	ug/L		
			cis 1,3-Dichloropropene	<	5.0	ug/L		
			Toluene		150	ug/L		
			trans 1,3-Dichloropropene	<	5.0	ug/L		
			1,1,2-Trichloroethane	<	5.0	ug/L		
			1,2-Dibromoethane	<	5.0	ug/L		
			Tetrachloroethene	<	5.0	ug/L		
			1,3-Dichloropropane	<	5.0	ug/L		
			Dibromochloromethane	<	5.0	ug/L		
			Chlorobenzene	<	5.0	ug/L		
			Ethylbenzene		93	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			Xylene (total)		260	ug/L		
			1,3-Dichlorobenzene	<	5.0	ug/L		
			Styrene	<	5.0	ug/L		
			1,4-Dichlorobenzene	<	5.0	ug/L		
			Bromoform	<	5.0	ug/L		
			1,2-Dichlorobenzene	<	5.0	ug/L		
			Isopropylbenzene		12	ug/L		
			1,1,2,2-Tetrachloroethane	<	5.0	ug/L		
			Bromobenzene	<	5.0	ug/L		
			1,2,3-Trichloropropane	<	5.0	ug/L		
			n-Propylbenzene		13	ug/L		
			2-Chlorotoluene	<	5.0	ug/L		
			1,3,5-Trimethylbenzene		25	ug/L		
			4-Chlorotoluene	<	5.0	ug/L		
			tert-Butylbenzene	<	5.0	ug/L		
			1,2,4-Trimethylbenzene		78	ug/L		
			sec-Butylbenzene	J	1.6	ug/L		
			p-Isopropyltoluene		5.1	ug/L		
			n-Butylbenzene	<	5.0	ug/L		
			1,2-Dibromo-3-chloropropane	<	5.0	ug/L		
			1,2,4-Trichlorobenzene	<	5.0	ug/L		
			Hexachlorobutadiene	<	5.0	ug/L		
			Naphthalene		37	ug/L		
			1,2,3-Trichlorobenzene	<	5.0	ug/L		

Analyzed By: GTEL

Approved By: 09.13.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Volatile Organic Results - Method 8260

September 11, 1996

Lab#	Field Description	Dil Factor	Analyte	Result	Units	Sample Date	Date Analyzed
E-34785	WOMW201XXX96XR		SURROGATE RECOVERIES:			07/09/96	08/15/96
		1.00	1,2-Dichloroethane-d4 (76-114)	96	%		
			Toluene-d8 (88-110)	99	%		
			Bromofluorobenzene (86-115)	100	%		

Analyzed By: GTEL

Approved By: 09.13.96, Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY
CONTRACTOR LABORATORY
VOLATILE ORGANICS - METHOD 8260

Field Description	Analyte	Dilution Factor		Result	Units	Date Analyzed
METHOD BLANK	Dichlorodifluoromethane	1.0	<	10	ug/L	08/14/96
	Chloromethane		<	10	ug/L	
	Vinyl chloride		<	5.0	ug/L	
	Bromomethane		<	10	ug/L	
	Chloroethane		<	10	ug/L	
	Trichlorofluoromethane		<	5.0	ug/L	
	1,1-Dichloroethene		<	5.0	ug/L	
	Methylene chloride		<	5.0	ug/L	
	trans 1,2-Dichloroethene		<	5.0	ug/L	
	1,1-Dichloroethane		<	5.0	ug/L	
	2,2-Dichloropropane		<	5.0	ug/L	
	cis 1,2-Dichloroethene		<	5.0	ug/L	
	Chloroform		<	5.0	ug/L	
	Bromochloromethane		<	5.0	ug/L	
	1,1,1-Trichloroethane		<	5.0	ug/L	
	1,1-Dichloropropene		<	5.0	ug/L	
	Carbon Tetrachloride		<	5.0	ug/L	
	Benzene		<	5.0	ug/L	
	1,2-Dichloroethane		<	5.0	ug/L	
	Trichloroethene		<	5.0	ug/L	
	1,2-Dichloropropane		<	5.0	ug/L	
	Bromodichloromethane		<	5.0	ug/L	
	Dibromomethane		<	5.0	ug/L	
	Toluene		<	5.0	ug/L	
	1,1,2-Trichloroethane		<	5.0	ug/L	
	1,2-Dibromoethane		<	5.0	ug/L	
	Tetrachloroethene		<	5.0	ug/L	
	1,3-Dichloropropane		<	5.0	ug/L	
	Dibromochloromethane		<	5.0	ug/L	
	Chlorobenzene		<	5.0	ug/L	
	Ethylbenzene		<	5.0	ug/L	
	1,1,2,2-Tetrachloroethane		<	5.0	ug/L	
	Xylene (total)		<	5.0	ug/L	
	1,3-Dichlorobenzene		<	5.0	ug/L	
	Styrene		<	5.0	ug/L	
	1,4-Dichlorobenzene		<	5.0	ug/L	
	Bromoform		<	5.0	ug/L	
	1,2-Dichlorobenzene		<	5.0	ug/L	
	Isopropylbenzene		<	5.0	ug/L	
	1,1,2,2-Tetrachloroethane		<	5.0	ug/L	
	Bromobenzene		<	5.0	ug/L	
	1,2,3-Trichloropropane		<	5.0	ug/L	
	n-Propylbenzene		<	5.0	ug/L	

Analyzed By: GTEL

Approved By: 01.09.97 Chief Chemist

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

VOLATILE ORGANICS - METHOD 8260

Field Description	Analyte	Dilution Factor		Result	Units	Date Analyzed
METHOD BLANK	2-Chlorotoluene	1.0	<	5.0	ug/L	08/14/96
	1,3,5-Trimethylbenzene		<	5.0	ug/L	
	4-Chlorotoluene		<	5.0	ug/L	
	tert-Butylbenzene		<	5.0	ug/L	
	1,2,4-Trimethylbenzene		<	5.0	ug/L	
	sec-Butylbenzene		<	5.0	ug/L	
	p-Isopropyltoluene		<	5.0	ug/L	
	n-Butylbenzene		<	5.0	ug/L	
	1,2-Dibromo-3-chloropropane		<	5.0	ug/L	
	1,2,4-Trichlorobenzene		<	5.0	ug/L	
	Hexachlorobutadiene		J	1.4	ug/L	
	Naphthalene		<	5.0	ug/L	
	1,2,3-Trichlorobenzene		J	1.0	ug/L	
	cis 1,3-Dichloropropene		<	5.0	ug/L	
	trans 1,3-Dichloropropene		<	5.0	ug/L	
	SURROGATE RECOVERIES: (%)					
	1,2-Dichloroethane-d4 (76-114)			94	%	
	Toluene-d8 (88-110)			101	%	
	p-bromofluorobenzene (86-115)			96	%	

Analyzed By: GTEL

Approved By: 01.09.97 Chief Chemist

4. Quality Assurance Data

VOLATILE ORGANIC BLANK SPIKE-BLANK SPIKE DUPLICATE

WATER
PRECISION

COMPOUND	BLANK SPIKE RECOVERY	BLANK SPIKE DUPLICATE RECOVERY	RELATIVE PERCENT DEVIATION (RPD)	MAXIMUM ACCEPTABLE RPD	IN OR OUT OF QC LIMITS
*Date Analyzed: 10/06/94					
1,1-Dichloroethene	136	134	1	14	IN
Benzene	125	118	6	11	IN
Trichloroethene	147	140	5	14	IN
Toluene	96	97	1	13	IN
Chlorobenzene	99	99	0	13	IN

WATER
ACCURACY

SPIKING COMPOUND	BLANK SPIKE RECOVERY	ACCEPTABLE RANGE	IN OR OUT OF QC LIMITS
1,1-Dichloroethene	136	61 - 145	IN
Benzene	125	71 - 120	OUT *
Trichloroethene	147	76 - 127	OUT *
Toluene	96	76 - 125	IN
Chlorobenzene	99	75 - 130	IN

* - Out of control limits.

11.14.96
CA 11-14-96

VOLATILE ORGANIC BLANK SPIKE-BLANK SPIKE DUPLICATE

WATER

PRECISION

COMPOUND	BLANK SPIKE RECOVERY	BLANK SPIKE DUPLICATE RECOVERY	RELATIVE PERCENT DEVIATION (RPD)	MAXIMUM ACCEPTABLE RPD	IN OR OUT OF QC LIMITS
Date Analyzed: 10/07/94					
1,1-Dichloroethene	121	105	14	14	IN
Benzene	92	94	2	11	IN
Trichloroethene	101	101	0	14	IN
Toluene	97	94	3	13	IN
Chlorobenzene	104	106	2	13	IN

WATER

ACCURACY

SPIKING COMPOUND	BLANK SPIKE RECOVERY	ACCEPTABLE RANGE	IN OR OUT OF QC LIMITS
1,1-Dichloroethene	121	61 - 145	IN
Benzene	92	71 - 120	IN
Trichloroethene	101	76 - 127	IN
Toluene	97	76 - 125	IN
Chlorobenzene	104	75 - 130	IN

WS 11.15.96

CH 11-14-96

VOLATILE ORGANIC MATRIX SPIKE-MATRIX SPIKE DUPLICATE

WATER
PRECISION

COMPOUND	MATRIX SPIKE RECOVERY	MATRIX SPIKE DUPLICATE RECOVERY	RELATIVE PERCENT DEVIATION (RPD)	MAXIMUM ACCEPTABLE RPD	IN OR OUT OF QC LIMITS
*Date Analyzed: 07/13/95					
1,1-Dichloroethene	79	76	4	14	IN
Benzene	80	80	0	11	IN
Trichloroethene	81	79	3	14	IN
Toluene	81	85	5	13	IN
Chlorobenzene	93	91	2	13	IN

WATER
ACCURACY

SPIKING COMPOUND	MATRIX SPIKE RECOVERY	ACCEPTABLE RANGE	IN OR OUT OF QC LIMITS
1,1-Dichloroethene	79	61 - 145	IN
Benzene	80	71 - 120	IN
Trichloroethene	81	76 - 127	IN
Toluene	81	76 - 125	IN
Chlorobenzene	93	75 - 130	IN

11.14.96

11.14.96

VOLATILE ORGANIC BLANK SPIKE-BLANK SPIKE DUPLICATE

WATER
PRECISION

COMPOUND Date Analyzed: 07/14/95	BLANK SPIKE RECOVERY	BLANK SPIKE DUPLICATE RECOVERY	RELATIVE PERCENT DEVIATION (RPD)	MAXIMUM ACCEPTABLE RPD	IN OR OUT OF QC LIMITS
1,1-Dichloroethene	78	75	4	14	IN
Benzene	93	103	10	11	IN
Trichloroethene	101	102	1	14	IN
Toluene	97	106	9	13	IN
Chlorobenzene	97	92	5	13	IN

WATER
ACCURACY

SPIKING COMPOUND	BLANK SPIKE RECOVERY	ACCEPTABLE RANGE	IN OR OUT OF QC LIMITS
1,1-Dichloroethene	78	61 - 145	IN
Benzene	93	71 - 120	IN
Trichloroethene	101	76 - 127	IN
Toluene	97	76 - 125	IN
Chlorobenzene	97	75 - 130	IN

11.14.96

11.14.96

VOLATILE ORGANIC BLANK SPIKE-BLANK SPIKE DUPLICATE

WATER
PRECISION

COMPOUND	BLANK SPIKE RECOVERY	BLANK SPIKE DUPLICATE RECOVERY	RELATIVE PERCENT DEVIATION (RPD)	MAXIMUM ACCEPTABLE RPD	IN OR OUT OF QC LIMITS
*Date Analyzed: 07/20/95					
1,1-Dichloroethene	91	92	1	14	IN
Benzene	111	90	21	11	OUT *
Trichloroethene	101	80	23	14	OUT *
Toluene	112	89	23	13	OUT *
Chlorobenzene	92	94	2	13	IN

WATER
ACCURACY

SPIKING COMPOUND	BLANK SPIKE RECOVERY	ACCEPTABLE RANGE	IN OR OUT OF QC LIMITS
1,1-Dichloroethene	91	61 - 145	IN
Benzene	111	71 - 120	IN
Trichloroethene	101	76 - 127	IN
Toluene	112	76 - 125	IN
Chlorobenzene	92	75 - 130	IN

* - Out of Control Limits.

11.14.96
11.14.96

SEMI-VOLATILE ORGANIC MSB-MSBD - WATER

CONTRACTOR LABORATORY

PRECISION

COMPOUND DATE EXTRACTED: 07/16/95	MSB % RECOVERY	MSBD % RECOVERY	RELATIVE PERCENT DEVIATION (RPD)	MAXIMUM ACCEPTABLE RPD	IN OR OUT OF QC LIMITS
Phenol	63	52	19	35	IN
2-Chlorophenol	66	55	18	50	IN
1,4-Dichlorobenzene	63	56	12	27	IN
N-Nitroso-di-n-propylamine	71	59	18	38	IN
1,2,4-Trichlorobenzene	67	55	20	23	IN
4-Chloro-3-methylphenol	75	61	21	33	IN
Acenaphthene	76	65	16	19	IN
4-Nitrophenol	76	73	4	50	IN
2,4-Dinitrotoluene	71	68	4	47	IN
Pentachlorophenol	88	82	7	47	IN
Pyrene	62	58	7	36	IN

ACCURACY

SPIKING COMPOUND	MSB % RECOVERY	ACCEPTABLE RANGE	IN OR OUT OF QC LIMITS
Phenol	63	12 - 110	IN
2-Chlorophenol	66	27 - 123	IN
1,4-Dichlorobenzene	63	36 - 97	IN
N-Nitroso-di-n-propylamine	71	41 - 116	IN
1,2,4-Trichlorobenzene	67	39 - 98	IN
4-Chloro-3-methylphenol	75	23 - 97	IN
Acenaphthene	76	46 - 118	IN
4-Nitrophenol	76	10 - 80	IN
2,4-Dinitrotoluene	71	24 - 96	IN
Pentachlorophenol	88	9 - 103	IN
Pyrene	62	26 - 127	IN

11.14.96

SEMI-VOLATILE ORGANIC MSB-MSBD - WATER

CONTRACTOR LABORATORY

PRECISION

COMPOUND DATE EXTRACTED: 07/20/95	MSB % RECOVERY	MSBD % RECOVERY	RELATIVE PERCENT DEVIATION (RPD)	MAXIMUM ACCEPTABLE RPD	IN OR OUT OF QC LIMITS
Phenol	56	61	9	35	IN
2-Chlorophenol	61	60	2	50	IN
1,4-Dichlorobenzene	63	62	2	27	IN
N-Nitroso-di-n-propylamine	65	50	26	38	IN
1,2,4-Trichlorobenzene	64	60	6	23	IN
4-Chloro-3-methylphenol	70	59	17	33	IN
Acenaphthene	69	61	12	19	IN
4-Nitrophenol	88	75	16	50	IN
2,4-Dinitrotoluene	78	66	17	47	IN
Pentachlorophenol	94	80	16	47	IN
Pyrene	69	63	9	36	IN

ACCURACY

SPIKING COMPOUND	MSB % RECOVERY	ACCEPTABLE RANGE	IN OR OUT OF QC LIMITS
Phenol	56	12 - 110	IN
2-Chlorophenol	61	27 - 123	IN
1,4-Dichlorobenzene	63	36 - 97	IN
N-Nitroso-di-n-propylamine	65	41 - 116	IN
1,2,4-Trichlorobenzene	64	39 - 98	IN
4-Chloro-3-methylphenol	70	23 - 97	IN
Acenaphthene	69	46 - 118	IN
4-Nitrophenol	88	10 - 80	OUT *
2,4-Dinitrotoluene	78	24 - 96	IN
Pentachlorophenol	94	9 - 103	IN
Pyrene	69	26 - 127	IN

* - Out of control limits.

11.14.96

SEMI-VOLATILE ORGANIC MSB-MSBD - WATER

CONTRACTOR LABORATORY

PRECISION

COMPOUND DATE ANALYZED: 07/26/95	MSB % RECOVERY	MSBD % RECOVERY	RELATIVE PERCENT DEVIATION (RPD)	MAXIMUM ACCEPTABLE RPD	IN OR OUT OF QC LIMITS
Phenol	56	61	9	35	IN
2-Chlorophenol	61	60	2	50	IN
1,4-Dichlorobenzene	63	62	2	27	IN
N-Nitroso-di-n-propylamine	65	50	26	38	IN
1,2,4-Trichlorobenzene	64	60	6	23	IN
4-Chloro-3-methylphenol	70	59	17	33	IN
Acenaphthene	69	61	12	19	IN
4-Nitrophenol	88	75	16	50	IN
2,4-Dinitrotoluene	78	66	17	47	IN
Pentachlorophenol	94	80	16	47	IN
Pyrene	69	63	9	36	IN

ACCURACY

SPIKING COMPOUND	MSB % RECOVERY	ACCEPTABLE RANGE	IN OR OUT OF QC LIMITS
Phenol	56	12 - 110	IN
2-Chlorophenol	61	27 - 123	IN
1,4-Dichlorobenzene	63	36 - 97	IN
N-Nitroso-di-n-propylamine	65	41 - 116	IN
1,2,4-Trichlorobenzene	64	39 - 98	IN
4-Chloro-3-methylphenol	70	23 - 97	IN
Acenaphthene	69	46 - 118	IN
4-Nitrophenol	88	10 - 80	OUT *
2,4-Dinitrotoluene	78	24 - 96	IN
Pentachlorophenol	94	9 - 103	IN
Pyrene	69	26 - 127	IN

* - Out of Control Limits.

11.14.96

5. Chain of Custody

CHAIN OF CUSTODY RECORD

Page ___ of ___

PROJECT NO.: E0126

PROJECT NAME: Westover

SAMPLERS (SIGNATURE): M. Tomsky, K Bauer

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: Nonl Vols										REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
27532	9/22/94	1130		X	WOGW301XXX02XR	2	2										Water
27533	9/22/94	1100		X	WOGW303XXX02XR	2	2										↓
27534	9/21/94	1700		X	WOGW206IXX02XR	2	2										↓
27535	9/21/94	930		X	WOGW203XXX02XR	2	2										↓
27536	9/21/94	930		X	WOQT002XXX02XR	2	2										↓

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Michael H. Tomsky	9/22/94 1400	FEDEX 040033-5342	FEDEX	9-23-94 1200	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

ABB Environmental Services, Inc.

OH-62

ANALYSIS REQUEST FORM

Date Received
Lab Location
Results Due
Client I.D. No.

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample: Water
List Any Hazards: Fuel

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures

Client Information: Name: Westover
Company: ABB-ES
Mailing Adddress: 110 Free Street
Portland, ME 04101

Purchase Order/Job Number: 80126 - 7452-03

Where to Send Report: ☐ Directly to Client ☒ ABB - Name: Tom Lonsley

Analyses Requested By: Tom Lonsley
Technical Project Professional

Approved By: Mark Seelen
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required
WOGW301XXXO1XR		9/22/94	M. Young	
WOGW303XXXO1XR		9/22/94		
WOGW206IXXO1XR		9/21/94		VOA-USEPA-8240
WOGW203XXXO1XR		9/21/94		
WOQT002XXXO1XR		9/21/94		

ABB Environmental Services, Inc.

OH-62

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CHAIN OF CUSTODY RECORD

Page ___ of ___

PROJECT NO.: E0126

PROJECT NAME: Westover AFB

SAMPLERS (SIGNATURE): M. Lounsbury, S. ALLOCCA, C. SLocum

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: 40 ml Vial	REMARKS: INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
	7/13/95	1600		X	WOBtxx3xxx01xR	2	2	water
	7/13/95	1615		X	WOGW507xxx01xR	2	2	water

23.0 Samples Returned

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	7/13/95 1100			7-17-95 1200	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	
				Fedx # 4702486784 0	

ABB Environmental Se[illegible]es, Inc.

OH-62

ANALYSIS REQUEST FORM

Date Received _____
Lab Location _____
Results Due _____
Client I.D. No. _____

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample: Water
List Any Hazards: Fuel

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures

Client Information: Name: Westover AFB
Company: ABB-ES
Mailing Adddress: 110 free Street
Portland, Me 04101

Purchase Order/Job Number: 7452-04

Where to Send Report ☐ Directly to Client
☒ ABB - Name: Mark Seelen

Analyses Requested By: Mark Seelen
Technical Project Professional

Approved By: Mark Seelen
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required	PID
WO BTXX3XXX01XR		7/13/95	M. [illegible]	VOC	0
WO GW507XXX01XR		7/13/95	M. [illegible]		0

ABB Environmental Services, Inc.

OH-62

Page ___ of ___

U.S. Army Corps of Engineers

ENVIRONMENTAL LABORATORY

Hubbardston MA 01452

Fascimile Transmittal Header Sheet

DATE: 7.18.95

TO: Gary Lacroix

Ext/Bldg.

Organization

Telecopier No. (617) 647-8614

FROM: Sample Custodian

Number of Pages 4 (including cover sheet)

OUR TELECOPIER NUMBER IS: 508-928-5494

IF YOU DO NOT Receive all pages, please call 508-928-4238.

COMMENTS: Project Westover AFB Monitoring Program was received on July 17, 1995 with Samples at a temperature of 23.0°C this temp is outside the recommended guidelines of 4°C ± 2°C. Please send a fax informing us if you'd like to proceed with the analysis.

Thank You

Cheryl Noonan

Samples Returned per DSL

C.N. 4.18.95

CHAIN OF CUSTODY RECORD

Page ___ of ___

PROJECT NO.: E0126

PROJECT NAME: Westover AFB

SAMPLERS (SIGNATURE): M. Lounsbury, S. ALLOCCA, C. Slocum

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE * 40 ml Vials	SAMPLE TYPE * 1 LAG									REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
31751	7/11/95	1000	X		WOGW704XXX01XR	4	2	2									Water
31752	7/11/95	700	X		WO BTXX1XXX01XR	2	2										
31753	7/10/95	1545	X		WO BSXX1XXX01XR	4	2	2									
31754	7/10/95	1700	X		WO GW102XXX01XR	2	2										

* Analysis written on next sheet on

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	7/4/95 1200			7-12-95 1200	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	
				Fedex: 4702486681	

ABB Environmental Services, Inc.

OH-62

ANALYSIS REQUEST FORM

Date Received
Lab Location
Results Due
Client I.D. No.

Client Information: Name Westover AFB
Company ABB-ES
Mailing Adddress 110 free street
Portland, Me 04101
Purchase Order/Job Number 7452-04 C.W. E0126

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample Water
List Any Hazards Fuel

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures
WOGW704XXX01XR Has free product floating on the surface of the water

Where to Send Report ☐ Directly to Client
☒ ABB - Name Mark Seelen

Analyses Requested By: Mark Seelen
Technical Project Professional

Approved By: Mark Seelen
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required	PID
WOGW704XXX01XR		7/11/95	M. [signature]	VOC-8240	32
WOBS XXX XXX01XR		7/10/95	M. [signature]	SVOU	0
WOBtex1 XXX01XR		7/11/95	M. [signature]	VOC-8240	0
WOGW102 XXX01XR		7/10/95	M. [signature]	~~SVOU~~	0

ABB Environmental Services, Inc.

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Page ___ of ___

CHAIN OF CUSTODY RECORD

Page

PROJECT NO.	PROJECT NAME
E0126	Westover AFB

SAMPLERS (SIGNATURE): M. Lounsbury, S. ALLOCCA, C Slocum

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: 40 ml Vial	SAMPLE TYPE: 1 CAC *										REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
31806	7/13/95	730		X	WOGW301XXX01XX	4	2	2										Water
31807	7/12/95	1600		X	WOBTXX2XXX01XX	2	2											↓
31808	7/12/95	1600		X	WOGW307XXX01XX	2	2											↓

* Analysis written on next sheet end

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	7/13/95 1100			7/14/95 1200	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	
				Fed H 470 248 6214	

ABB Environmental Services, Inc.

OH-62

ANALYSIS REQUEST FORM

Date Received _____
Lab Location _____
Results Due _____
Client I.D. No. _____

Client Information: Name Westover AFB
Company ABB - ES
Mailing Adddress 110 Free Street
Portland, Me 04101

Purchase Order/Job Number E0126

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample water
List Any Hazards fuel

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures

Where to Send Report ☐ Directly to Client
☒ ABB - Name Mark Seelen

Analyses Requested By: Mark Seelen
Technical Project Professional

Approved By: Mark Seelen
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required	PID
WO GW307XXX01XX		7/12/95	[illegible]	VOC	160
WO RtXX2XXX01XX		7/12/95		VOC	0
WO GW 301XXX01XX		7/13/95		VOC, SVOC	9

ABB Environmental Services, Inc.

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CHAIN OF CUSTODY RECORD

Page 1

PROJECT NO.: E0126

PROJECT NAME: Westover AFB

SAMPLERS (SIGNATURE): M. Lounsbury, S. ALLUCCA, C. SLocum

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: 40ml Vial	SAMPLE TYPE: 1LAG *	REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
31867	7/15/95	745		X	WOGW202XXX01XR	4	2	2	water
31868	7/15/95	~~7/41~~ MIL		X	WOGWBtXX4XXX01XR	2	2		↓
		715							

* Analysis written on next sheet c.w. 7/18/95

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	7/17/95 1130			7/18/95 1200	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

ABB Environmental Services, Inc.

OH-62

ANALYSIS REQUEST FORM

Date Received _____
Lab Location _____
Results Due _____
Client I.D. No. _____

☐ Solid Waste Data File
☐ Data Documentation Req'd
☐ Entered in Computer

Type of Sample Water
List Any Hazards _____

☐ SPECIAL PROCEDURE

☐ Filtered in Field ☒ Non-Filtered

Additional Information or Special Procedures

Client Information: Name Westover
Company ABB-ES
Mailing Adddress 110 Free Street
Portland, ME 04101

Purchase Order/Job Number 7452-04

Where to Send Report ☐ Directly to Client
☒ ABB - Name Mark Seelen

Analyses Requested By: Mark Seelen
Technical Project Professional

Approved By: Mark Seelen
Project Manager

Sample Identification	Lab Numbers	Date Sampled	Sampled By	Analyses Required	PID
WOGW202XXX01XR		7/15/95	[illegible]	VOC SVOC	165
WOGWBTXX4XXX01XR		7/15/95	[illegible]	VOC	—

ABB Environmental Services, Inc.

OH-62

Page ___ of ___

CHAIN OF CUSTODY RECORD ANALYTICAL REQUEST

1. Project Name: Westover AFB
2. Project No.: E0126
3. SDG No.:
4. Project Manager: Mark Seelen
5. Manager's Phone No.: 828-3537
6. Work Release No.:
7. Prepared by: M. Lounsbury
8. Form checked before shipping by:
9. Airbill No.: 911161135

Samplers (Print names): M. Lounsbury, C. Devoit

ABB Environmental Services, Inc.
110 Free Street
P.O. Box 7050
Portland, ME 04112
Tel: (207) 775-5401
Fax: (207) 772-4762

	Date	Time	Water	Soil	Sample ID Number	Total No. of Containers:	VOC: Preservative: HCL Bottle Type 40 ml	SVOC: Bottle Type	Inorganic: Preservative: Filtered ☐Yes ☐No Bottle Type	Pest/PCB: Bottle Type	TPH: Preservative: Bottle Type	Remarks: (Include MS/MSD information, composite or grab sample information, etc.)
34782	7/9/96	800	X		WOBTXX2XXX96XR	2	2					trip Blank
34783	7/9/96	1200	X		WOBSXX2XXX96XR	2	2					Sample Blank
34784	7/9/96	1515	X		WOMW202XXX96XR	2	2					
34785	7/9/96	840	X		WOMW201XXX96XR	2	2					

~~per DJL VOA 8260 10 T.I.C's~~ C.N
VOA 8260 C.N 7-24-96

NVL

10. Date Shipped: 7/10/96
11. Date Received:
12. Date Shipped:
13. Relinquished by: [signature] Date/Time 7/10/96 1100
14. Received by: [signature] Date/Time 7-11-96 / 1200
15. Relinquished by: Date/Time
16. Received by: Date/Time
17. Relinquished by: Date/Time
18. Received for Disposal by: Date/Time
19. Comments (Special instructions):

W9602030S

6. Cooler Receipt Form

REVISED ON

CENED-ED-GL
SAMPLE CONTAINER RECEIPT FORM

PROJECT: W.AFB - Monitoring Program Project #: E0126
Work Order #: _____

Container received on 9-23-94 and inspected on 9-23-94 by: [illegible]

1. Temperature 3.6 °C. Temperature taken on 9-23-94 (date)

2. Shipper _____ Shipper # 0400335342
(USM, UPS, DHL, FEDEX, P/C, AIR EXP, HAND-DELIVERED)

3. Container type (Cooler, box, envelope, etc.) _____

4. Were custody seals on outside of container? N/A Yes No
How many & where: (2) AROUND O, seal date: 9-22-94, seal name: Signature

5. Were custody papers taped to lid inside container? N/A Yes No

6. Custody papers properly filled out? (ink, signed, etc.) Yes No

7. Was project and project # identifiable from custody papers? Yes No

8. Did you sign custody papers in appropriate place? Yes No

9. Did you attach shipper's packing form to this form? N/A Yes No

10. Packing material (peanuts, vermiculite, bubble wrap, paper, cans, other)

11. Were all samples sealed in separate plastic bags? N/A Yes No

12. Did all samples arrive in good condition? Yes No

13. Sample labels complete? (#, date, analysis, preservation, sign.) Yes No

14. Were correct sample containers used for tests indicated? N/A Yes No

15. Were correct preservatives used? (TM pH___, CN- pH___) N/A Yes No
(TOC pH___, NUTRIENT pH___, TOX pH___, TPH pH___, OTHER pH___)

16. Were VOA vials bubble-free (H_2O) or no headspace (soil)? N/A Yes No

17. Was sufficient amount of sample sent in each container? Yes No

18. Did all sample labels agree with custody papers? Yes No

19. Were air volumes noted for air samples? N/A Yes No

20. Were initial weights noted for pre-weighed filters? N/A Yes No

Discrepancies: (6) DID NOT SHOW TRANSFER OF CUSTODY TO FEDEX W/ AIR BILL # (SEE HOW RECIPIENT FILLED IN CUSTODY BLOCK)

REVISED ON

CENED-ED-GL
SAMPLE CONTAINER RECEIPT FORM

JECT: Westover AFB Monitoring Program **Project #:** E0126
Work Order #: _____

Container received on 7.17.95 **and inspected on** 7.17.95 **by:** Cheryl Vrovan

1. Temperature 23.0 °C. Temperature taken on 7.17.95 (date)

2. Shipper _____ Shipper # 4702486740
(USM, UPS, DHL, FEDEX, P/C, AIR EXP, HAND-DELIVERED)

3. Container type (Cooler, box, envelope, etc.) _____

4. Were custody seals on outside of container? N/A Yes No
How many & where: 2 Around Cooler Lid, seal date: 7.14.95, seal name: Signature

5. Were custody papers taped to lid inside container? N/A Yes No

6. Custody papers properly filled out? (ink, signed, etc.) Yes No

7. Was project and project # identifiable from custody papers? Yes No

8. Did you sign custody papers in appropriate place? Yes No

9. Did you attach shipper's packing form to this form? N/A Yes No

. Packing material (peanuts, vermiculite, bubble wrap, paper, cans, other)

11. Were all samples sealed in separate plastic bags? N/A Yes No

12. Did all samples arrive in good condition? Yes No

13. Sample labels complete? (#, date, analysis, preservation, sign.) Yes No

14. Were correct sample containers used for tests indicated? N/A Yes No

15. Were correct preservatives used? (TM pH___, CN- pH___) N/A Yes No
(TOC pH___, NUTRIENT pH___, TOX pH___, TPH pH___, OTHER pH___)

16. Were VOA vials bubble-free (H_2O) or no headspace (soil)? N/A Yes No

17. Was sufficient amount of sample sent in each container? Yes No

18. Did all sample labels agree with custody papers? Yes No

19. Were air volumes noted for air samples? N/A Yes No

20. Were initial weights noted for pre-weighed filters? N/A Yes No

Discrepancies: Samples Received on 7.17.95 with a temp of 23.0 it's outside the recommended range of 4°C ± 2°C.
per Dave Lubianez's conversation with Gary Lacroix the decision was made to return the samples due to temperature 7.18.95 C

REVISED ON 9

CENED-ED-GL
SAMPLE CONTAINER RECEIPT FORM

PROJECT: Westover WAFB - Monitoring Program Project #: E0126
Work Order #: ____

Container received on 7.12.95 and inspected on 7.12.95 by: Cheryl Keenan

1. Temperature 2.0 °C. Temperature taken on 7.12.95 (date)

2. Shipper ____ Shipper # 4702486681
(USM, UPS, DHL, FEDEX, P/C, AIR EXP, HAND-DELIVERED)

3. Container type (Cooler, box, envelope, etc.) ____

4. Were custody seals on outside of container? N/A Yes No
How many & where: 1 Around Cooler Lid, seal date: 7.11.95, seal name: Signature

5. Were custody papers taped to lid inside container? N/A Yes No

Did not show direct transfer of Custody to Shipper.

6. Custody papers properly filled out? (ink, signed, etc.) Yes No

7. Was project and project # identifiable from custody papers? Yes No

8. Did you sign custody papers in appropriate place? Yes No

9. Did you attach shipper's packing form to this form? N/A Yes No

10. Packing material (peanuts, vermiculite, bubble wrap, paper, cans, other)

11. Were all samples sealed in separate plastic bags? N/A Yes No

12. Did all samples arrive in good condition? Yes

13. Sample labels complete? (#, date, analysis, preservation, sign.) Yes No

14. Were correct sample containers used for tests indicated? N/A Yes No

15. Were correct preservatives used? (TM pH___, CN- pH___) N/A Yes No
(TOC pH___, NUTRIENT pH___, TOX pH___, TPH pH___, OTHER pH___)

16. Were VOA vials bubble-free (H_2O) or no headspace (soil)? N/A Yes No

17. Was sufficient amount of sample sent in each container? Yes No

18. Did all sample labels agree with custody papers? Yes No

19. Were air volumes noted for air samples? N/A Yes No

20. Were initial weights noted for pre-weighed filters? N/A Yes No

Discrepancies: ____

REVISED ON 9-6-

CENED-ED-GL
SAMPLE CONTAINER RECEIPT FORM

PROJECT: WAFB Monitoring Program **Project #:** EO126
Work Order #: _____

Container received on 7.14.95 **and inspected on** 7.14.95 **by:** Chief Alvarez

1. Temperature 5.4 °C. Temperature taken on 7.14.95 (date)
2. Shipper _____ Shipper # 4702486714
   (USM, UPS, DHL, FEDEX, P/C, AIR EXP, HAND-DELIVERED)
3. Container type (Cooler, box, envelope, etc.) _____
4. Were custody seals on outside of container? N/A Yes No
   How many & where: 2 Ground Cooler, Lid, seal date: 7.13.95, seal name: signature
5. Were custody papers taped to lid inside container? N/A Yes No
   Did not show direct transfer of custody to shipper.
6. Custody papers properly filled out? (ink, signed, etc.) Yes No
7. Was project and project # identifiable from custody papers? Yes No
8. Did you sign custody papers in appropriate place? Yes No
9. Did you attach shipper's packing form to this form? N/A Yes No
10. Packing material (peanuts, vermiculite, bubble wrap, paper, cans, other)
11. Were all samples sealed in separate plastic bags? N/A Yes No
12. Did all samples arrive in good condition? Yes No
13. Sample labels complete? (#, date, analysis, preservation, sign.) Yes No
14. Were correct sample containers used for tests indicated? N/A Yes No
15. Were correct preservatives used? (TM pH___, CN- pH___) N/A Yes No
    (TOC pH___, NUTRIENT pH___, TOX pH___, TPH pH___, OTHER pH___)
16. Were VOA vials bubble-free (H_2O) or no headspace (soil)? N/A Yes No
17. Was sufficient amount of sample sent in each container? Yes No
18. Did all sample labels agree with custody papers? Yes No
19. Were air volumes noted for air samples? N/A Yes No
20. Were initial weights noted for pre-weighed filters? N/A Yes No

Discrepancies: _____

REVISED ON 9-6

CENED-ED-GL
SAMPLE CONTAINER RECEIPT FORM

PROJECT: Westover AFB Monitoring Program **Project #:** E0126
Work Order #: _____

Container received on 7.18.95 **and inspected on** 7.18.95 **by:** Cheryl Newman

1. Temperature 5.9 °C. Temperature taken on 7.18.95 (date)
2. Shipper _____ Shipper # 2891808717
   (USM, UPS, DHL, FEDEX, P/C, AIR EXP, HAND-DELIVERED)
3. Container type (Cooler, box, envelope, etc.) _____
4. Were custody seals on outside of container? N/A Yes No
   How many & where: 2 Around Cooler Lid, seal date: 7.17.95, seal name: Signature
5. Were custody papers taped to lid inside container? N/A Yes No
   Did not show direct transfer of Custody to shippers.
6. Custody papers properly filled out? (ink, signed, etc.) Yes No
7. Was project and project # identifiable from custody papers? Yes No
8. Did you sign custody papers in appropriate place? Yes No
9. Did you attach shipper's packing form to this form? N/A Yes No
10. Packing material (peanuts, vermiculite, bubble wrap, paper, cans, other)
11. Were all samples sealed in separate plastic bags? N/A Yes
12. Did all samples arrive in good condition? Yes No
13. Sample labels complete? (#, date, analysis, preservation, sign.) Yes No
14. Were correct sample containers used for tests indicated? N/A Yes No
15. Were correct preservatives used? (TM pH___, CN- pH___) N/A Yes No
    (TOC pH___, NUTRIENT pH___, TOX pH___, TPH pH___, OTHER pH___)
16. Were VOA vials bubble-free (H_2O) or no headspace (soil)? N/A Yes No
    Small bubble found in vial
17. Was sufficient amount of sample sent in each container? Yes No
18. Did all sample labels agree with custody papers? Yes No
19. Were air volumes noted for air samples? N/A Yes No
20. Were initial weights noted for pre-weighed filters? N/A Yes No

Discrepancies: _____

REVISED

CENED-ED-GL
SAMPLE CONTAINER RECEIPT FORM

PROJECT: WAFB - Monitoring Program Project #: E01
Work Order #: 95-2

Container received on 7-11-96 by: Cheryl Noonan

and inspected on 7-11-96 by: Cheryl Noonan

1. Temperature 9.4 °C. Temperature taken on 7-11-96 (date)

2. Shipper _____ Shipper # 9111161135
(USM, UPS, DHL, FEDEX, P/C, AIR EXP, HAND-DELIVERED)

3. Container type (Cooler, box, envelope, etc.) _____

4. Were custody seals on outside of container? N/A Yes No
How many & where: _____, seal date: _____, seal name: _____

5. Were custody papers taped to lid inside container? N/A Yes No

6. Did you sign custody papers in appropriate place? Yes No

7. Did you attach shipper's packing form to this form? N/A Yes No

8. Custody papers properly filled out? (ink, signed, etc.) Yes No

Was project and project # identifiable from custody papers? C.N. Yes No

10. Packing material (peanuts, vermiculite, bubble wrap, paper, cans, other)

11. Were all samples sealed in separate plastic bags? N/A Yes No

12. Did all samples arrive in good condition? Yes No

13. Sample labels complete? (#, date, analysis, preservation, sign.) Yes No

14. Were correct sample containers used for tests indicated? N/A Yes No

15. Were correct preservatives used? (TM pH___, CN- pH___) N/A Yes No
(TOC pH___, NUTRIENT pH___, TOX pH___, TPH pH___, OTHER pH___)

16. Were VOA vials bubble-free (H_2O) or no headspace (soil)? N/A Yes No

17. Was sufficient amount of sample sent in each container? Yes No

18. Did all sample labels agree with custody papers? Yes No

19. Were air volumes noted for air samples? N/A Yes No

20. Were initial weights noted for pre-weighed filters? N/A Yes No

Discrepancies: Temperature was 9.4. Insufficient amount of ice used per COSR we will proceed with the Analyses of the samples. Did not specify what method for Volatiles.

APPENDIX D

SWAP II™ FUEL PRODUCT MONITORING NOTES, WELL MWM-704 (USACE - NED STAFF AND SITE PERSONNEL)

1110

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a
2482

WELL #704, WESTOVER AFB

DATE	PRODUCT	COMMENTS
11/17/95	None, odor present	ball still seated, full H_2O more excavation work done
11/27/95	None, slight odor	ice top 6" .36" rain since last
12/4/95	Odor, slight layer on top	ice top 2" 6" snow since last
12/18/95	Strong odor upon opening cover top 3/4 froze solid 1/2" product in 1/2" H_2O on bottom	1' snow since last
1/17/96		UNABLE TO LOCATE DUE TO DRIFTING SNOW
2/27/96		Locate + refill well
3/6/96	Partially frozen top 6" - no noticeable fuel in line	Snow + Rain since fill last wk.
3/14/96	Empty	Froze - caused ball to move + LEAK WATER
3/19/96	Fill-1/2	no precip
3/29/96	1/16" product	Light shower
4/11/96	1/16 product	
4/19/96	1/16 product	3" Rain
4/29/96	1/8± "	LT Rain - HEAVY AFTER C
5/9/96	NO CHANGE	several inches rain prior

WELL #704, WESTOVER AFB

DATE	PRODUCT	COMMENTS
5/28/96	Thin layer on top of 10" column of H_2O	Dry week
6/03/96	" (APPROX 1/8")	"
6/10/96	approx 1/8" layer on about 4 feet of water	workers taking samples said he just refilled the well (rainy)
6/11/96	1/8" layer on approx 5' H_2O	Hot & Humid
6/18/96	"	Hot & Humid for the past week
6/26/96	1/16" layer on approx 5' H_2O	A few days of rain last week. Very nice this week
7/09/96	1/16 " " "	HEAVY RAIN LAST PM
7/15/96	empty	Very humid & hot. Heavy rain over previous weekend
7/16/96	RECHARGED 0900	
7/19/96	WATER DRAINING APPROX 1/2 FULL	
7/29 - 8/2	Working on well all week ~~well~~ tube was out of the pipe & on the ground	
8/5/96	well empty	hot & humid weather
8/14/96	well empty recharged 1430	humid last week, dry
8/20/96	NO CHANGE	DRY WEEK
10/21/96	NO CHANGE	VERY HEAVY RAIN 10/19 + 10/20
11/4/96	1/8" layer on approx 5' H_2O	No heavy rain
12/16/96	1/8 layer	Snow + Heavy Rain
3/07/97	Ø Tube Dry Verified by operator	VACA - will refill upon return.

3/14/97

removed

WELL # 704 WAFB

TIME / DATE	AMOUNT OF PRODUCT + DESCRIPTION	REMARKS (IE RAINFALL SINCE LAST CHECK)
0900 4/7/97	1/16" - 1/8" PRODUCT	15" - 18" SNOW 4/2/97
0930 4/14/97	SLIGHT POSSIBLE INCREASE FROM PREVIOUS WEEK. 1/8" + TOTAL	LT. RAIN SAT PM + SUN AM 4/12 + 4/13/97
0930 4/22/97	NO CHANGE	RAIN 4/18 - 4/19 HEAVY
4/30/97	"	
5/06/97	No Change (approx 1/8")	LT - MOD RAIN TODAY PRIOR RAIN HVY 5/3/97
6/06/97	#704 NOT changed #709 12" Product sampled	
6/07/97		
6/18/97	1/8"	VERY DRY PREVIOUS WEEK
7/08/97	1/8" NO change	HEAVY RAIN 2" 7/03/97
7/16/97	1/8" no change	LT Rain 7/15/97
8/25/97	1/8" NO CHANGE	HEAVY RAIN 2" ± WK END 8/23/97