SCREENING SITE INSPECTION REPORT

For:

Hartland Well #3

Non-Responsive

[redacted]

US EPA ID: WIN 000510360

PREPARED FOR:

REMEDIATION AND REDEVELOPMENT PROGRAM
WISCONSIN DEPARTMENT OF NATURAL RESOURCES

JUNE 22, 2010

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SIGNATURE PAGE

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SECTION 1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response Compensation Liability Act of 1980 (CERCLA), and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Wisconsin Department of Natural Resources (WDNR) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a Screening Site Inspection (SSI) at Hartland Well #3 as part of the FY '09 Cooperative Agreement. The Hartland Well #3 (hereafter referred to as the facility), is located at the approximate address of Non-Responsive [redacted] Non-Responsive [redacted] Refer to Figure 1 for a location map. The facility is located west of Milwaukee. Follow I-94 west to Highway 83, north to Cardinal Lane, east to Progress Drive and north to site. The facility does not have associated WDNR Facility Identification (FID) numbers for this location. FID No. 268357100 is associated with the Bark River Property site which is approximately 3 blocks to the east and is related to reported releases from the presence of buried drums on-site and associated environmental investigations and remediation (Ref. 6). The CERCLIS identification number for the facility is WIN 000510360 (Ref. 2).

The purpose of this SSI was to collect information concerning conditions at the facility sufficient to assess the threat posed to human health and the environment due to the presence of trichloroethylene (TCE) in Hartland Well #3, to determine the need for a site investigation under CERCLA or other authority, and if appropriate, support site evaluation using the Hazard Ranking System (HRS) for proposal to the National Priorities List (NPL). The scope of the investigation included reviewing previous information for the facility and off-site properties, installing off-site monitoring wells and piezometers, sampling environmental media including soil and groundwater, evaluating and documenting HRS factors, and collecting additional non-sampling information. The report provides State file information review, target survey, and presentation of previous and new analytical data which documents if the facility has released contaminants into the environment (i.e., soils, groundwater, surface water bodies, and air).

***This report and the references contained herein can be reviewed at the Department of Natural Resources, Waukesha Office, located at 141 NW Barstow St., Room 180, Waukesha, Wisconsin.**

SECTION 2.0 FACILITY BACKGROUND

Section 2.1 Facility Description

The facility is identified as an active municipal well located in Hartland, Wisconsin (refer to Figure 1). Limited information is available on State and Federal databases using the facility name (U.S. Environmental Protection Agency - CERCLIS database) and Wisconsin Department of Natural Resources – SHWIMS (Solid and Hazardous Waste Information Management System), and BRRTS (Bureau of Remediation and Redevelopment Tracking System) databases (Ref. 3, 4, and 5). CERCLIS lists the facility as **Non-NPL Status** with a completion date of 07/30/2009 (Ref. 5). SHWIMS and BRRTS databases are interconnected but do not list the facility. Some environmental media data is available from previous site investigations on the facility and nearby Bark River Site.

The facility does not have a specific address, only a legal description Non-Responsive [redacted] Non-Responsive [redacted] The facility is located approximately 500 feet north of the intersection of Cardinal Lane and Progress Drive in Hartland, Waukesha County, Wisconsin. The approximate address of the facility is Non-Responsive [redacted] Non-Responsive [redacted] The facility location is found on the USGS 7.5 minute quadrangle for Hartland, Wisconsin (Figure 1).

The facility contains one parcel. The property is square shaped and is 300 by 300 feet which is 2.07 acres in size and is not fenced. The area around the facility slopes to the south towards the Bark River (Ref. 2). Zoning in the area is manufacturing mercantile or B commercial (Ref. 1). Refer to Figure 2.

The 2 acre parcel property has a concrete block construction single-story building in the center of the parcel. An asphalt parking lot is located on the northern portion of the property. The building structure houses the equipment for the municipal well. Photos of the building are included in Appendix B with the Waste Registry Screening Worksheet attachments (Ref. 7). The Village of Hartland is the current owner of this property according to the 2008 Real Property Tax listing WEB portal of Waukesha County Government (Ref. 1).

The geographic coordinates of the facility are 43° 5' 42.8" North latitude and 88° 21' 19.0" West longitude (Ref. 17). The GIS WTM coordinates for the facility are 653852 and 292702 (Ref. 11). Directions to the facility are: from the WDNR Waukesha Service Center go northwest on NW Barstow Street toward East St. Paul Avenue, turn right at East St. Paul Avenue, after 2.0 miles, turn left onto Highway 94 West, after 8.2 miles, exit to Highway 83, go north on Highway 83 for 3.0 miles to Cardinal Lane, turn right on Cardinal Lane and travel 0.3 miles to Progress Drive, turn left on Progress Drive to the facility entrance (east side of Progress Drive). The approximate facility address is Non-Responsive [redacted]

The facility is approximately 2.07 acres in total area. The property is not fenced. The facility is located on Progress Drive north of Cardinal Lane and south of Industrial Drive (refer to Figure 2). The area surrounding the facility is generally light commercial use. The four-mile radius map is located in Appendix D.

(Refs. 1, 11, 15)

Property and Owner Information

Facility Name	Hartland Well #3
Site Address	Non-Responsive [redacted]
Legal Description/Location	Non-Responsive [redacted]
Property Tax Key No.	Hav 0730958024
Assessed Value	$0
Owner Name and Address	Village of Hartland 210 Cottonwood Ave., Hartland, WI 53029
Owner Contact	Village of Hartland , 210 Cottonwood Ave., Hartland, WI 53029

The listed property tax is not delinquent. (Ref. 1)

Section 2.2 Facility History

Aerial photos of the facility were obtained from the Waukesha County Internet Mapping Site (Ref. 15). Air photos from 1941, 1950, 1963, 1970, 1980, 1990, 2000, and 2007 are included in Appendix G. The facility and surrounding area appears to be used as a tree farm based on the 1941 and 1950 photographs. Two farms with associated buildings appear to be present (one in the west end and one in east end) in the future commercial business park. The 1963 aerial photograph shows the area with Progress Drive and Industrial Drive roads installed. Disturbed surface areas are present in the future commercial business park. The 1970 aerial photograph shows two buildings in the future commercial business park. The facility property in 1970 appears vacant and may have been used for farming. During 1973, municipal well #3 was installed on the property. The use of the property has remained the same since that time. The 1980 aerial photograph shows that Industrial Drive and Industrial Court roads are completed and approximately half the commercial business park lots have buildings on them. The western farm is no longer present in 1980. The 1990 aerial photograph shows that Norton Drive and Cardinal Lane roads are now completed and approximately 80 percent of the lots now contain buildings and the eastern farm is not present. The 2007 aerial photograph shows the business park fully developed and reflects its current status. The aerial photographs from 1980 till 2007 show the facility with the presence of the current building and the property use has not changed.

2.3 Waste Characteristics

Groundwater samples were collected from Municipal Well #3 from 1984 through 2007 due to WDNR requirements (Ref. 16 and 20). Several site investigations, however, were conducted at the Bark River ERP Site from 1993 to 2007. The investigations and summaries of the data from both facilities are discussed below.

Hartland Well #3 Investigations

Between April 1984 and April 2007, the on-site water supply well #3 was sampled due to WDNR requirements. Laboratory results of volatile organic compound (VOC) screens detected trichloroethylene (TCE). TCE was detected in the supply well at concentrations ranging from non-detect to 270 parts per billion (ppb). The highest TCE concentration (270 ppb) was detected

on April 2, 1984. The TCE concentrations declined to approximately 50 ppb by 1990, 35 ppb by 1997 and 20 ppb by 1999. The most recent data from the supply well was collected on February 6, 2007 and April 18, 2007 with TCE concentrations of 9.8 and 11 ppb respectively. From July of 2004 until April 2007, the TCE concentrations have ranged from 9.3 to 14 ppb in supply well #3 (Ref. 20). Depth to groundwater at the facility is approximately 32 feet below ground surface (bgs). The supply well is drilled in the surficial sand and gravel aquifer to a depth of 135 feet with a 40 foot screen (Ref. 13). Refer to Appendix E for the supply well #3 well log.

On December 18, 1996 four monitoring wells and two piezometers on and adjacent to the Hartland Well #3 facility were sampled as part of the Bark River site investigation. TCE was detected in all six wells. The monitoring wells contained concentrations of TCE ranging from 13 to 28 ppb and the piezometers contained concentrations of 3 and 11 ppb (Ref. 21 and 22).

Bark River ERP Site Investigations

From 1993 until 2007, Leggette, Brashears and Graham Inc. (LBG) on behalf of Chrysler drilled and sampled approximately 22 monitoring wells and 22 piezometers to evaluate the soil and groundwater adjacent to the Bark River facility. The WDNR FID No. 268357100 file contains information related to site investigation and remediation activities (Ref. 6). Groundwater was determined to be at 10-20 feet below grade and flowing south-southeast (Ref. 12 and Figure 1).

The Bark River facility is located approximately 1600 feet northeast of the Hartland Well #3 facility. The Bark River facility contained buried 55-gallon drums of solvents from the former Chrysler Marine in Hartford, Wisconsin. The drums were removed from the facility and soils were treated on the facility to remove VOCs. Remediation of the soil was completed on-site by utilizing soil mixing and vapor stripping (Ref 21).

After remediation activities were complete at the Bark River facility, TCE concentrations ranged from non-detect on-site to 16 ppb in MW-18 which exceed WDNR NR 140 groundwater quality standards and is southwest of Hartland Well #3. Based on the results of the investigation, the VOCs did not impact the Hartland Well #3 (Ref 9, 10). A plume of TCE and breakdown

products migrated southwest along Cardinal Lane. Monitoring well and piezometer locations are illustrated on the Site Layout map of the Bark River property facility in Appendix C (Ref 9).

TABLE 1
HISTORICAL DATA

Sample Location	Media Analyzed	Analytical Parameters	Contaminants Detected	Concentrations/ Comments
Facility Well Hartland Well #3	Municipal well, Groundwater	VOCs	Trichloroethene	0-270 ppb
Monitor Wells TW-1, TW-4, P-2, P-3 Facility Property	Shallow Wells, Groundwater	VOCs	Trichloroethene	13-28 ppb
Piezometers P-2A, P-3A Facility Property	Deep Wells, Groundwater	VOCs	Trichloroethene	3-11 ppb
Monitor Wells MW-14, MW-18, Bark River Site	Shallow Wells, Groundwater	VOCs	Trichloroethene Cis 1,2-Dichloroethene	0-16 ppb 0-16 ppb
Piezometers PZ-18D Bark River Site	Deep Wells, Groundwater	VOCs	Trichloroethene Cis 1,2-Dichloroethene	0-52 ppb 0-17 ppb

(Refs. 9, 21, 22)

SECTION 3.0 ANALYTICAL RESULTS

This section of the report discusses the analytical results for the various samples collected from the facility. Environmental media samples collected consisted of soil and groundwater. Air and sediment samples were not collected, as they are not pathways of concern. The data shows that there has been a release of contaminants to the groundwater in the vicinity of the facility.

The SSI included the installation of three monitoring wells (MW-5, MW-6, and MW-7) and three piezometers (PZ-5, PZ-6 and PZ-7) upgradient of the facility. Refer to Appendix E for the

soil boring logs. After installation, the wells were then developed prior to sampling. Refer to Appendix E for WDNR monitoring well construction and development forms. Existing monitoring wells (MW-22, TW-4, P-2 and P-3) and piezometers (P-2A, P-3A and PZ-23I) were also sampled in conjunction with the newly installed wells. Municipal well #3 was also sampled. All the wells were sampled on November 10, 2009.

Soil and groundwater samples collected by the Department during the SSI were analyzed for the Target Compound List (TCL) organics, which included volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), pesticides, polychlorinated biphenyls (PCBs) and Target Analyte List (TAL) metals and cyanide. Summary tables of the analytical results and the laboratory analytical reports of the SSI are contained in Appendix I. Significant findings based on the data are summarized for each media (soils and groundwater).

Section 3.1 Groundwater

This section documents the various groundwater samples collected from the facility and adjacent properties. Refer to Table 2 for the locations where the groundwater samples were collected and a summary of compounds detected. Refer to Table 3 for a summary of water level measurements collected from the monitoring wells and piezometers on and off-site on November 10, 2009. The remainder of this section documents contaminants detected and concentrations.

TABLE 2
Groundwater Sampling Locations
November 10, 2009

Sample Location	Media Analyzed	Analytical Parameters	Contaminants/ Concentrations
Municipal Well 3	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	TCE 8.5 ppb Barium 85.8 ppb
Monitoring Well MW-5	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	TCE 0.96 ppb "J" Barium 57.7 ppb

Monitoring Well MW-6	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	TCE 0.9 ppb "J" Barium 60.9 ppb
Monitoring Well MW-7	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	Toluene 0.49 ppb, "J" Barium 71.8 ppb Manganese 155 ppb
Monitoring Well MW-22	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	Barium 756 ppb Manganese 1270 ppb
Monitoring Well TW-4	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	TCE 12 ppb Caprolactam 430 ppb Barium 55.1 ppb
Monitoring Well TW-1	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	Caprolactam 830 ppb TCE 6.0 ppb Barium 90.9 ppb
Monitoring Well P-2	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	Caprolactam 670 ppb TCE 10 ppb Barium 105 ppb
Monitoring Well P-3	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	TCE 8.2 ppb PCE 1.0 ppb "J" Barium 102 ppb
Piezometer P-2A	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	Caprolactam 56 ppb TCE 1.3 ppb, "J" Barium 68.8 ppb
Piezometer P-3A	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	TCE 4.2 ppb, "J" Barium 76.5 ppb
Piezometer PZ-5	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	TCE 2.5 ppb, "J" Barium 69.7 ppb

Piezometer PZ-6	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	TCE 1.2 ppb, "J" Barium 69.4 ppb
Piezometer PZ-7	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	Barium 86.0 ppb Chromium 7.8 ppb
Piezometer PZ-23I	Groundwater	VOCs, Metals, SVOCs, Cyanide, Pesticides/PCBs	TCE 9.6 ppb PCE 0.84 ppb, "J" Barium 80.5 ppb

TABLE 3
Water Level Measurements
November 10, 2009

Piezometer	Depth to Water/ Total Depth	Monitoring Well	Depth to Water/ Total Depth
PZ-23I	11.65 feet 41.94 feet	MW-22	11.93 feet 18.41 feet
PZ-2A	32.36 feet 78.60 feet	TW-4	22.44 feet 48.80 feet
PZ-3A	32.37 feet 78.00 feet	P-2	31.91 feet 52.10 feet
PZ-5	26.89 feet 78.27 feet	TW-1	30.71 feet 68.60 feet
PZ-6	24.86 feet 78.00 feet	P-3	31.55 feet 49.00 feet
PZ-7	28.51 feet 78.70 feet	MW-5	26.56 feet 34.00 feet
		MW-6	25.01 feet 32.10 feet
		MW-7	29.85 feet 35.98 feet

Investigation of the extent of groundwater contamination was not part of the scope of work of the SSI. Groundwater samples were collected from the newly installed monitoring wells MW-5, MW-6 and MW-7 and piezometers PZ-5, PZ-6 and PZ-7 and were installed and sampled by the

Wisconsin Department of Natural Resources. Piezometers PZ-5, and PZ-6 are located north of the facility along Progress Drive. Piezometer PZ-7 is located northwest of the facility. Monitoring wells MW-5, MW-6 and MW-7 were installed within 5 feet adjacent to the respective piezometer. Refer to Figure 3 and Figure 4 for locations of sampled monitoring wells and piezometers.

The newly installed piezometers were screened below the water table and the monitoring wells were screened by intersecting the water table. A background groundwater sample was collected from piezometer PZ-7, which is located upgradient of the facility. Based on previous investigation activities completed at the Bark River facility, groundwater flow direction generally moves to the southeast. This flow direction was confirmed based on groundwater elevations collected on November 10, 2009. Refer to Table 3 on page 12, for a summary of the groundwater elevations and Figure 3 for the groundwater flow map.

Six groundwater samples were collected from the newly installed piezometers and existing piezometers adjacent to the facility. The existing piezometers included P-2A, P-3A and PZ-23I. The Department labeled the samples the same as the piezometer number. Refer to Figure 4 for the deep groundwater flow map.

Eight groundwater samples were collected from the newly installed monitoring wells and existing monitoring wells adjacent to the facility. The existing monitoring wells included MW-22, TW-4, P-2 and P-3. The Department labeled the samples the same as the monitoring well number. An additional two samples MW-9 (P-2) and MW-8 (MW-6) were duplicate samples. Two trip blank samples (TB-1 and TB-2) were collected on site by decanting distilled water into sample bottles. Two rinsate samples (RO-1 and RO-2) were also collected on-site by decanting distilled water through bailers into sample bottles.

One groundwater sample was collected on November 10, 2009 from City of Hartland municipal Supply Well #3. This sample was labeled MS-3. A matrix spike sample was also collected from municipal well #3 and also labeled MS-3.

Groundwater samples showed primarily elevated levels of metals, TCE and caprolactam. Table 4 shows the monitoring well and piezometer groundwater samples that exceed background

concentrations. Department Enforcement Standards (ES) are also included on Tables 4 and 5 for reference. Department ES values are numerical values expressing the concentration of a substance in groundwater. If a concentration of a substance exceeds the ES, a remedial action may be necessary. In general, the ES values are similar to the EPA Maximum Contaminant Level (MCL) and for most substances the concentrations are the same.

TCE was detected in eleven of the wells including municipal well #3. The TCE detection limit was 5 parts per billion (ppb) which is high for groundwater analysis and is the same as the ES for the WDNR. Three monitoring wells (TW-1, TW-4, and P-2) and municipal well #3 exceeded the ES for TCE. Based on the groundwater flow direction, the background well is MW-7 which did not contain TCE. Refer to Table 2 for the results.

Based on Table 4, manganese was detected above the ES in monitoring wells MW-7 and MW-22. This was the only compound detected above the ES. Caprolactam was detected in monitoring wells TW-1, TW-4 and P-2, however the WDNR does not have an ES for caprolactam. Chromium was detected in PZ-7 below the ES. Barium was detected in MW-22 but below the ES.

Based on the above results, TCE is present in the groundwater throughout the area. A TCE release is observed since the TCE concentrations were detected above laboratory detection limits. A release is present based on the TCE concentrations in the monitoring wells and piezometers. Refer to Figure 5 for a map depicting the TCE concentrations in the area of the facility.

Additional investigation activities would be needed to determine the source of these contaminants. The highest concentrations of TCE were detected in monitoring wells TW-4, P-2 and municipal well #3. The piezometers contained lower concentrations of TCE when compared to the monitoring wells.

TABLE 4
MONITORING WELL AND PIEZOMETER GROUNDWATER CONTAMINANTS
November 10, 2009

Analytical Parameter	Chromium ppb	Manganese ppb	Barium ppb	Caprolactam ppb
NR 140 ES	100	50	2000	
PZ-2A				56
PZ-6				
PZ-7	7.8	**155**		
MW-22		**1270**	756	
TW-4				430
P-2				670
TW-1				830

Bolded concentrations are greater then ES concentrations. ppb = parts per billion.

Concentrations of caprolactam were detected above detection limits in three monitoring wells (P-2, TW-1 and TW-4) and one piezometer P-2A. The WDNR does not have an ES for caprolactam and the source of this chemical is unknown. Monitoring well MW-22 contained manganese and barium above detection limits. Manganese was detected above the WDNR ES. The source of these metals is unknown and additional sampling would be necessary to confirm these concentrations.

Refer to Appendix I for tables and analytical results of the groundwater samples and Appendix H for photographs of the piezometers, monitoring wells, and municipal supply well sampled.

Section 3.2 Soil

Four surface soil samples were collected from the 0-2 foot depth by the Department to determine if on-site contaminants are present on the facility. Three samples total from the 0-2 foot depth were collected from each location of the Department installed piezometers (PZ-5, PZ-6 and PZ-7). Three soil samples were collected from the 0-2 foot depth and labeled SS-1, SS-6 and SS-7, and correspond with piezometer locations PZ-5, PZ-6 and PZ-7 respectively. One duplicate soil sample SS-8 was collected from the facility property at the same location as soil sample SS-5. These soil samples were analyzed for the TCL organics and TAL lists of parameters.

Soil contaminant concentrations in the four soil samples collected from the facility and the soil sample collected from the location of PZ-7 were not detected at concentrations above the background. As a result, these samples are indicative of background conditions. Refer to Figure 6 for the locations of the soil samples, and Appendix I for the table summary reports.

Table 5 lists soil sample contaminants and concentrations. Soil contaminant concentrations in the soil samples collected from the locations of PZ-5 and PZ-6 detected a number of semivolatile compounds above the detection limits. The source of these semivolatile compounds is likely from old road bed asphalt materials since samples were collected adjacent to Progress Drive.

TABLE 5

SOIL CONTAMINANTS

Analytical Parameter	SS-1 0-2'	SS-6 0-2'
Fluoranthene	3500 ppb	1400 ppb
Pyrene	2900 ppb	1000 ppb
Benzo(a)anthracene	1400 ppb	540 ppb
Chrysene	1900 ppb	590 ppb
Benzo(k)fluoranthene	750 ppb	300 ppb

Benzo(a)pyrene	1600 ppb	600 ppb
Indeno(1,2,3-cd)pyrene	1900 ppb	680 ppb
Benzo(g,h,i)perylene	1900 ppb	650 ppb

Based on the results of the soil samples, the exact source of the TCE groundwater contaminants has not been located.

SECTION 4.0 PATHWAY AND ENVIRONMENTAL HAZARD ASSESSMENT

This section discusses potential migration pathways and receptors. The migration pathways of concern discussed include groundwater, surface water, soil exposure and air. The pathway discussions are based on analytical data. The groundwater pathway is a threat since the municipal well #3 and the adjacent monitoring wells and piezometers are impacted. Estimated resident populations within a 4-mile radius of the facility are shown in Table 6 below.

TABLE 6
POPULATION WITHIN 4 MILES OF THE HARTLAND WELL #3 FACILITY

Radii (Miles)	*Population
0-1/4	0
1/4-1/2	261
1/2-1.0	3144
1.0-2.0	8407
2.0-3.0	6886
3.0-4.0	12,835
Total : 0-4.0	31,833

* (Based on year 2000 US Census data adjusted to 2008 estimate (Ref. 14))

Section 4.1 Groundwater Pathway

Quaternary age Pleistocene deposits of the Oak Creek Formation overlie most of southeastern Wisconsin. The area deposits generally consist of till and glaciofluvial deposits (Ref. 8). The stratigraphy of the area represents a chronological and areal succession of depositional environments associated with glaciation. First, till was deposited beneath glacial ice. Then, as the glacier receded, the till was exposed to weathering and erosion as braided streams, fed by melting ice, beds of sand gravel and cobbles were deposited upon the exposed till surface. Lake deposits or laminated clays can also be present in surfical sediments and are likely present to the south toward the Bark River (Ref 22).

Bedrock in the region consists of sedimentary rock, mainly sandstone, dolomite, shale, and limestone, of Ordovician and Silurian ages that are relatively uniform in thickness and large in extent. Dolomite of Silurian age underlies the glacial deposits. In southeastern Wisconsin, the glacial deposits are hydrologically connected with the Silurian dolomite (Niagara Aquifer) and considered one hydrologic unit. The glacial deposits and Niagara are the primary groundwater source used for both private and public water supplies in the area surrounding the facility. Water supply wells are the only source of potable drinking water within a several mile radius. (Ref. 16 and 19).

Three Hartland municipal wells are located within one mile. These wells are interconnected with another two Hartland municipal wells. Groundwater from all five Hartland municipal wells may be distributed directly to residents or blended together based on use of the residents. An additional four private supply wells are located within 1 mile of the facility and provide drinking water for a number of apartment buildings. Refer to Appendix D for the Four-Mile radius map of the area.

Maquoketa shale of Ordovician age directly underlies the Silurian age dolomite. The Maquoketa shale overlies the Galena-Platteville unit consisting of blue-gray shale and gray dolomite that yields little or no groundwater. Deeper sandstone units lie between the Maquoketa Shale and the Precambrian crystalline ("basement") rocks. The St. Peter Sandstone and other Cambrian sandstones (Trempeleau, Eau Claire, Mount Simon) generally serve as an aquifer and

groundwater water supply sources for municipal and other large capacity water supply systems. (Ref. 19 and 22)

Borings advanced on the property encountered groundwater on the facility at a depth of 32 feet flowing southeast toward the Bark River. Refer to Figure 3 for the groundwater flow map. As indicated in the Village Well log, surficial sediments consist of sand and gravel deposits to a depth of 125 feet bgs (Ref 13 and Appendix E).

Hartland Well Facility Previous Sampling

Groundwater samples have been collected from monitoring wells and piezometers on the Hartland Well facility and also from the municipal water supply well #3 serving the Village of Hartland. The total number of service connections for the village of Hartland municipal water supply system is 2961. The population served by well #3 is unknown due to blending of the water with other water supply wells. The municipal supply well #3 was sampled on a number of occasions between 1984 and 2007. TCE was detected in the supply well in a range of non-detect to 270 ppb. The concentration of TCE appears to be decreasing with time but sampling had not been conducted since 2007 (see Section 2.3 above). In April 2007, (which is from when the most recent data are available) the water sample collected from the municipal supply well on the facility was found to contain 11 ppb trichloroethylene (TCE) which is above the WDNR NR 140 groundwater quality standard of 5 ppb (Ref. 20).

The Village of Hartland utilizes five drilled groundwater wells. Each of these wells is finished in the shallow sand and gravel aquifer. The Hartland Well #3 was drilled in 1973 into the surficial sand and gravel aquifer to a depth of 135 feet and is the deepest of the five wells. The well casing is set at 95 feet with a 40 foot stainless steel screen. A copy of the well construction report is included in Appendix E.

During December 1996, groundwater samples at the Hartland Well facility were collected from monitoring wells, four of which had concentrations of TCE that exceed WDNR groundwater quality standards: TW-1 (13 ppb), TW-4 (28 ppb), P-2 (14 ppb), and P-3 (18 ppb). TCE was detected above the WDNR groundwater quality standard in piezometers P-2A (3 ppb) and P-3A (11 ppb) (Ref. 9). Piezometers P-2A and P-3A are installed to depths of 78.5 and 86.5 feet bgs,

respectively, with 5 foot screens. These wells are on or close to the Hartland Well #3 location. Refer to Figures 3 and 4 for their locations. These wells have not been sampled since 1996.

There are an additional two municipal wells within one mile of the facility. One well is located approximately 4200 feet southeast (downgradient) of the facility. The remaining well is located approximately 4500 feet east (slightly downgradient) of the facility (Ref. 16). Four private supply wells are located approximately 3500 feet northwest (upgradient) of the facility.

The source of the TCE groundwater contamination is unknown. It is unlikely that the source of the contamination originates at or near the Hartland Well #3 facility.

Bark River Facility Previous Sampling

In May 1992 Wisconsin Electric Company personnel discovered a buried drum while laying cable in the right of way along Cardinal Lane. The right-of-way was located adjacent to the Bark River facility with the address 400 Cardinal Lane in Hartland Wisconsin. In June 1993, Chrysler LLC agreed to undertake a site investigation and remove drums from the facility. During December 1993, a total of 401 drums were removed. A Remedial Action was completed on the soil on the facility which included soil mixing and in-situ steam injection. Soil treatment was completed in December 1995. The soil remediation was successful and the WDNR issued case closure for the soil remediation on April 3, 1997.

Groundwater investigations were completed during multiple events and started in April 1994. A total of 46 monitoring wells/piezometers were installed and sampled to define the extent of groundwater contamination. Well installation was completed in 1997. Quarterly groundwater monitoring was completed from 1997 through 1999. Semi-annual groundwater sampling was completed in 2001 through 2006. Sampling was then completed on a quarterly basis from November 2006 through September 2007. The several years of groundwater monitoring indicated that the horizontal extent of groundwater impacts was stable or receding. Groundwater flow was generally to the southwest at the facility but generally in a southeast direction regionally. A review of the groundwater data also indicated that a separate source of VOCs may be located upgradient or near Hartland Well #3. WDNR conditionally closed the Bark River site

for groundwater on December 20, 2007, with final closure being issued on December 2, 2008. Refer to Appendices C and F for facility data (Ref. 9 and 12).

Recent SSI Sampling

Groundwater investigation included the installation of three monitoring wells (MW-5, MW-6, and MW-7) and three piezometers (PZ-5, PZ-6 and PZ-7) upgradient of the facility. After installation, the wells were then developed prior to sampling. Existing monitoring wells (MW-22, TW-4, P-2 and P-3) and piezometers (P-2A, P-3A and PZ-23I) were also sampled in conjunction with the newly installed wells. Municipal well #3 was also sampled. All the wells were sampled on November 10, 2009. Refer to Section 3.1 for a detailed description of the groundwater sampling results.

The facility environmental setting and detections of VOCs from samples of Municipal Well #3 and the monitoring wells and piezometers on the facility suggest that the ground water pathway may be complete and may pose a threat to human targets. The estimated population utilizing groundwater within four miles of the facility is 31,833. The population served by municipal well #3 is unknown due to the mixing of water with the other municipal wells. Refer to Table 6 and Appendix D for the population summary within 4 miles of the facility.

Section 4.2 Surface Water Pathway

Topography at the facility generally slopes to the south (Ref. 15). Refer to the Figure 1 topographic map. Runoff from the Hartland Well #3 facility complex discharges to storm sewers adjacent to the property along Progress Drive. Because drainage from the subject property and surrounding properties is controlled by storm water drainage ditches, the overland flow segment of the surface water pathway, and the probable point of entry (PPE) to the Bark River can not be established but likely includes the road ditches that terminate at the river following Progress Drive. Distances to these PPEs are approximately 1200 feet. The topography in the vicinity of the facility and the PPEs are illustrated on the maps included in Appendix G.

The nearest primary surface water body to the facility is the Bark River, located approximately 1200 feet south of the south property boundary (refer to the facility parcel map in Appendix G)

(Ref. 15). Storm water from the facility and adjacent industrial park generally drains to road ditches, along Industrial Drive, Progress Drive and Norton Drive and then to other connecting road ditches along Cardinal Lane. The ditches likely transport storm water to Progress Drive and discharge into the Bark River. The Bark River flows southwest and serves as a tributary to Nagawicka Lake. The distance to Nagawicka Lake is approximately 1.5 miles (Appendix D). The Bark River and Nagawicka Lake are warm water sport fisheries containing panfish and predatory fish. Examples include bluegills, sunfish, various bass species, northern pike, muskellunge, walleye and catfish (Ref. 8).

When conducting the SSI, a formal surface water sampling program was not implemented. Since the location for the TCE source was not known, and TCE is a volatile organic compound, an effective surface water sampling program was not recommended at this time. In addition, TCE impacted soil was not anticipated to be present in surface soils on the facility which might impact the surface water via an overland flow route. No surface water samples have been collected in the vicinity of the facility; therefore, a release to a surface water body has not been evaluated. The surface water pathway via overland flow from the facility is unlikely. There are no drinking water intakes from the Bark River. No part of the facility property is within or near the floodplain as indicated by the FEMA 2008 Floodplain map (Appendix G). The nearest surface water intakes are located in Lake Michigan at a minimum of 20 miles east of the facility. All drinking water systems (both public and private) within several miles of the facility are supplied by groundwater (Ref. 16).

A search was conducted for endangered species and environmental sensitive areas including wetlands. No wetlands or critical habitat areas were identified on or adjacent to the facility. Wetlands exist within ¼ mile of the facility but are not connected to the facility via watercourses. Wetland type soils do exist near the southern boundary of the facility. (Ref. 18)

Section 4.3 Soil Exposure Pathway

A total of 4 soil samples were collected from the facility at the 0-2 foot depth. Three additional soil samples were collected from the locations of the newly installed piezometers also at the 0-2 foot depth. The soil samples collected as part of the SSI did not contain detectable concentrations

of TCE. However, various semi-volatile compounds were detected above detection limits at the locations of PZ-5 and PZ-6. The soil samples from PZ-5 and PZ-6 were collected from the street right-of-way adjacent to Progress Drive. It is likely, old asphalt or road construction materials were present in the soil samples. As a result, releases to both the surface and subsurface soils are not apparent. In addition, a direct contact risk is not present at the facility or at the locations of the piezometers. Based on past and current uses of the facility (refer to Section 2.2 for the facility history), it is unlikely that the facility contains TCE impacted soils. Refer to Table 5 for a summary of soil analytical results.

Exposure to contaminated soil is limited to the worker population and nearby population. The nearby population within a one mile radius of the facility is as follows: 0 – ½ mile, 261; and 0 – 1 mile, 3405 (Appendix D). There are no schools or day care facilities within 200 feet of the facility property (Ref. 1, 3, and 4). The threat to the nearby population and the worker population for the soil exposure pathway threat is considered low based on the results of the soil sampling. The potential exposure frequencies are also considered low based on the limited use by the workers of the property beyond the building and parking lot areas (see facility photos in Appendix B). The paved areas also provide a limited barrier between near surface soil contamination and human contact.

A search was conducted for endangered species and environmental sensitive areas including wetlands within a 1-mile buffer surrounding the facility. One State Endangered plant and a State Threatened minnow were identified. No wetlands or critical habitat areas were identified on or adjacent to the facility. Wetlands exist within ¼ mile of the facility but are not connected to the facility via watercourses. Wetland type soils do exist near the southern boundary of the facility. (Ref. 18)

Section 4.4 Air Pathway

The Hartland Well #3 facility is a minor source of TCE contamination to the air pathway. The facility utilizes an air stripper to remove TCE from the supply well. Based on the pumping rate of 1000 gallons per minute and recent TCE groundwater concentration (8.5 ppb) in well #3, the emission rate from the air stripper does not exceed state standards. As a result, an emission permit is not required.

The nearby population within a one mile radius of the facility is as follows: 0 –1/4 mile, zero (0), 1/4 – ½ mile, 261; and ½ – 1 mile, 3144 (Table 6 and Appendix D). There are no schools or day care facilities within 200 feet of the property (Ref. 1, 3, and 4). A formal air sampling program was not implemented as part of the SSI, or during previous environmental investigations on the facility for this pathway. However, portable air monitoring was conducted during the piezometer installation and groundwater sampling. Detectable concentrations of VOCs were not present. The facility is vegetated and remaining portions contain the building and paved drives and parking lot (see facility photos in Appendix B). The likelihood of air borne particulate contamination through wind generation alone would be limited to workers, and the nearby population. Based on the limited worker population, vegetative cover, pavement, and no visible indication of any blowing dust or soil at the facility, a release to the air pathway which would require additional investigation of the facility is not suspected.

SECTION 5.0 SUMMARY AND CONCLUSIONS

Groundwater beneath the Hartland Well #3 facility contains trichloroethylene (TCE) above WDNR NR 140 drinking water standards. The address of the facility is approximately Non-Responsive [redacted] The property was operated as a tree farm until the 1950s or early 1960s. When the farming operations ceased, the land was vacant until the Village of Hartland purchased the property and installed well #3 in 1973. The use of the property has remained the same since the Village of Hartland purchased the property. Based on this land use it is unlikely that the TCE was used or disposed at the facility.

Elevated levels of contaminants were not present in the soil as part of this SSI. Semi-volatile compounds were detected in two of the soil samples but are likely present due to previous road construction activities. A total of 7 soil samples were collected from the facility and adjacent rights-of-way to determine the source of the TCE contamination. Additional soil sampling would be required to determine the source of the TCE groundwater contamination.

Although a specific investigation of the extent of groundwater contamination was not part of the scope of the SSI, a limited assessment of shallow and deeper groundwater quality found impacts by metals (barium, chromium, and manganese), VOCs (TCE) and SVOCs (caprolactam).

TCE was detected in eleven of the monitoring wells and piezometers and municipal well #3. The highest concentration was found in monitoring well TW-4 which is located southwest of the facility. TCE concentrations appear to be decreasing with depth on the facility property. TCE concentrations in the shallow monitoring wells have decreased when compared to the 1996 results. Additional soil and groundwater investigations would be needed to determine the TCE source and extent of the TCE plume.

Four contaminant migration pathways including the ground water migration pathway, the surface water migration pathway, the soil exposure pathway, and the air migration pathway were evaluated in this SSI report. A release to groundwater is identified. The threat to facility workers and the nearby population for the soil exposure pathway threat is low based on the sample results. The threats to human and environmental targets via the surface water exposure pathway and the air migration pathway from the facility are limited at best. The greatest threat to nearby populations appears to be via the groundwater pathway.

SECTION 6.0 REFERENCES

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2. Wisconsin Department of Natural Resources, Pre-Cerclis Screening Report, August 12, 2009.

3. Wisconsin Department of Natural Resources, Bureau of Remediation and Redevelopment Tracking System. On-line Address: http://ua.dnr.wi.gov/org/aw/rr/brrts/index.htm

4. Wisconsin Department of Natural Resources, Solid and Hazardous Waste Information System (SHWIMS) on the Web. On-line Address: http://sotw.dnr.state.wi.us/sotw/Welcome.do

5. U.S. Environmental Protection Agency. On-line address: http://www.epa.gov/superfund/sites/cursites/index.htm

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8. Wisconsin Department of Natural Resources, "Lower Rock River Water Quality Management Plan", 2001 On-line Address: http://dnr.wi.gov/org/gmu/lowerrock/surfacewaterfiles/watersheds/lr13.pdf

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11. WDNR, Remediation and Redevelopment (RR) Sites Map. Sites Map Web Page. Figure 1, Location Map of Hartland Well #3 Site. Accessed on July 9, 2009. On-line address: http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2.

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16. WDNR, Bureau of Drinking Water and Groundwater. On-line address: http://www.dnr.state.wi.us/org/water/dwg/owneroperator.htm

17. WDNR, Remediation and Redevelopment (RR) Sites Map. Sites Map Web Page, and aerial view with Latitute-Longititude coordinates of Hartland Well #3 location. On-line address: http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2.

18. WDNR Natural Heritage Inventory Portal. On-line address: http://dnrintranetmaps.enterprise.wistate.us/nhiportal/NHIData.asp

19. Gonthier, Joseph, B. Groundwater Resources of Waukesha County, Wisconsin. U. S. Dept. of the Interior Geological Survey in cooperation with University of Wisconsin Geological and Natural History Survey. Information Circular Number 29. October, 1975.

20. Einweck, Michael, Village of Hartland TCE Test Results-Village Well #3, Village of Hartland, November 2, 2007.

21. Legette, Brashears & Graham, Inc., "Interim Response Action Report", April 1994, for Bark River Properties Site.

22. Legette, Brashears & Graham, Inc., "Site Investigation Report", September 1994, for Bark River Properties Site.

These reference documents can be reviewed at the Department of Natural Resources, Southeast Region Waukesha Office, located at 141 NW Barstow St., Room 180, Waukesha, Wisconsin.

Non-Responsive

[redacted]

LEGEND

P–3 VILLAGE OF HARTLAND PUMPING WELL #3

0 2000

SCALE IN FEET

QUADRANGLE LOCATION

U.S.G.S. TOPOGRAPHIC

HARTLAND, WISCONSIN

7.5 MINUTE QUADRANGLE

N

Hartland Well #3 SITE

HARTLAND, WISCONSIN

AREA LOCATION MAP

Prepared By:

Wisconsin Department of Natural Resources

FILE:

DATE: 5 June 2009

FIGURE: 1

Non-Responsive

[redacted]

HARTLAND WELL #3 SITE
HARTLAND, WISCONSIN

AERIAL PHOTO MAP

Prepared By:

Wisconsin Dept. of Nat. Resources

FILE:

DATE: JUNE 2009

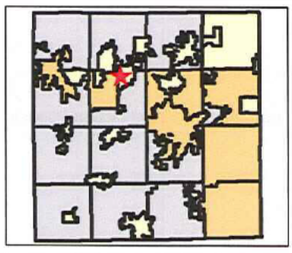
FIGURE: 2

WAUKESHA COUNTY
Internet Mapping Site

Groundwater Flow Map 11/10/2009

[redacted]

Non-Responsive



Legend

Points of Interest
Type
Airport
Cemetery
Fire Station
Government Building
Hospital
Library
Post Office
Park or Recreation
School
Unincorporated Place
County Parks
Police Station
Sheriff Substation
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Parcels
Shared Interest Parcels
Road Rights of Way
ROW Type
Dedicated
Proposed
Reserved
Vacated
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Railroad Rights of Way
RR ROW Status
Active
Retired
Lakes and Rivers
Streams and Creeks
Waukesha County 2007
RGB
Red Band_1
Green Band_2
Blue Band_3

→ Groundwater Flow

-899.25' Groundwater Elevation Contour (ft)

* Well Location

N

Map Generated: Mar 17, 2010

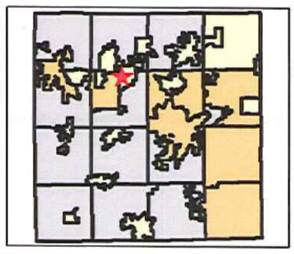
FIGURE 3

WAUKESHA COUNTY
Internet Mapping Site

Deep Groundwater Flow Map, 11/10/2009

[redacted]

Non-Responsive



Legend

Points of Interest
Type
Airport
Cemetery
Fire Station
Government Building
Hospital
Library
Post Office
Park or Recreation
School
Unincorporated Place
County Parks
Police Station
Sheriff Subdivision
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Parcels
Shared Interest Parcels
Road Rights of Way
ROW Type
Dedicated
Proposed
Reserved
Vacated
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Railroad Rights of Way
RR ROW Status
Active
Retired
Lakes and Rivers
Streams and Creeks
Waukesha County 2007
RGB
Red Band_1
Green Band_2
Blue Band_3

→ Groundwater Flow

900.00 – Groundwater Elevation Contour (ft)

X Well Location

N

Map Generated: Mar 17, 2010

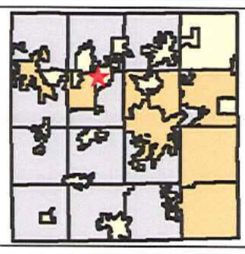
FIGURE 4

WAUKESHA COUNTY
Internet Mapping Site

Groundwater TCE Results

[redacted]

Non-Responsive



Legend

Points of Interest
Type
Airport
Cemetery
Fire Station
Government Building
Hospital
Library
Post Office
Park or Recreation
School
Unincorporated Place
County Parks
Police Station
Sheriff Substation
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Road Rights of Way
ROW Type
Dedicated
Proposed
Reserved
Vacated
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Railroad Rights of Way
RR ROW Status
Active
Retired
Lakes and Rivers
Streams and Creeks
Waukesha County 2007
RGB
Red Band_1
Green Band_2
Blue Band_3

"J" Result is Estimated Quantity

ppb Parts per billion

* Well Locations

N

Map Generated: Mar 17, 2010

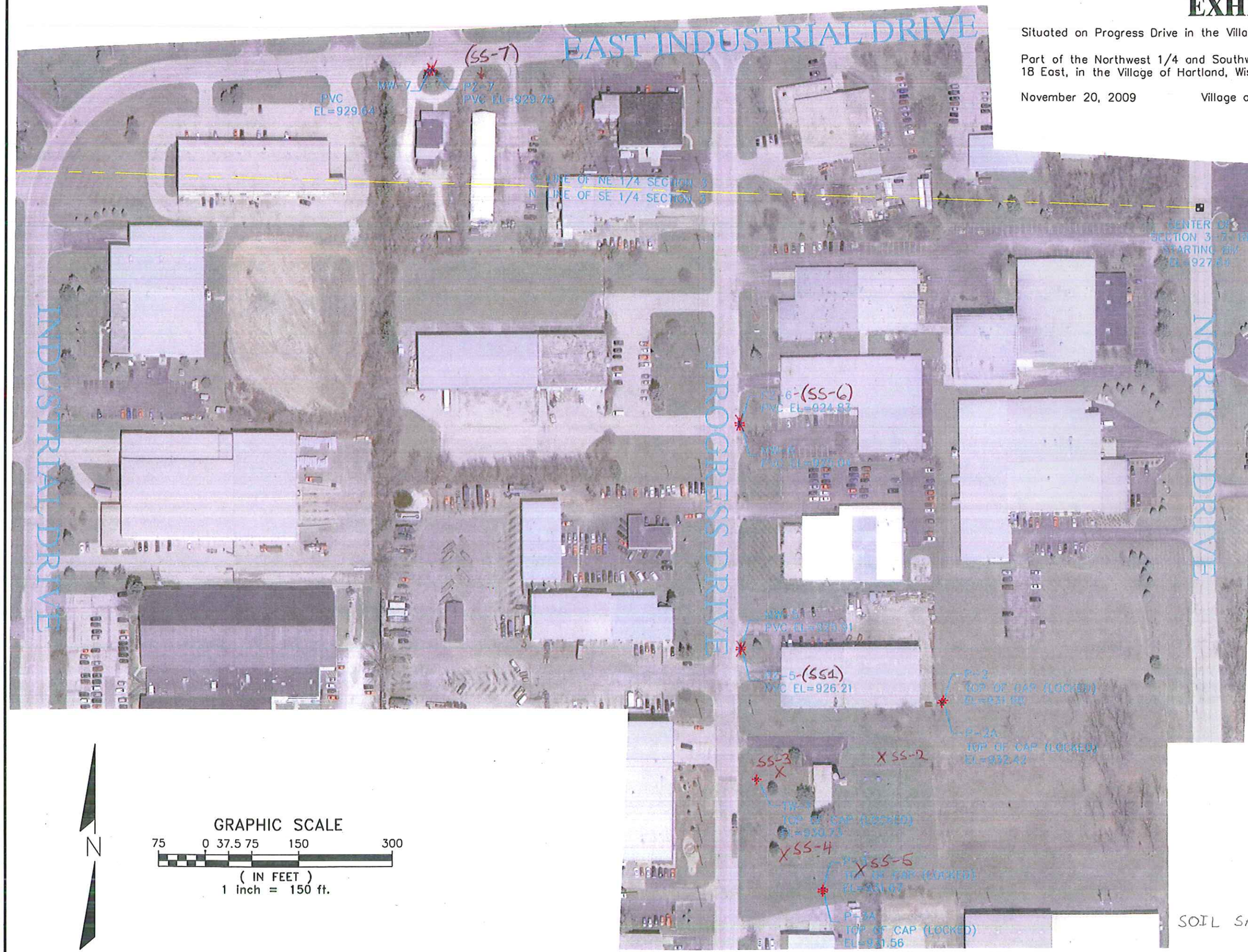
FIGURE 5

EXHIBIT

Situated on Progress Drive in the Village of Hartland, Waukesha County, Wisconsin.

Part of the Northwest 1/4 and Southwest 1/4 of Section 3, Town 7 North, Range 18 East, in the Village of Hartland, Wisconsin.

November 20, 2009 Village of Hartland Drawing No. 164713-RMK



Vertical datum = NGVD of 1929
Horizontal datum = State Plane Coordinates (South Zone)

Northing	Easting	Elev.	Desc.
403522.3520	2439191.8690	930.73	TW-1
403346.9700	2439298.6870	931.67	P-3
403343.3510	2439298.1870	931.56	P-3A
403647.5310	2439491.8240	931.98	P-2
403643.3620	2439489.2980	932.42	P-2A
403728.8490	2439165.3740	926.57	PZ-5
403732.2560	2439166.2410	926.29	MW-5
404088.3660	2439163.2540	925.42	PZ-6
404084.2710	2439163.7630	925.40	MW-6
404647.0410	2438669.8010	930.27	PZ-7
404646.9100	2438664.2030	930.21	MW-7

SOIL SAMPLE LOCATION
X SS-6

N

GRAPHIC SCALE
75 0 37.5 75 150 300
(IN FEET)
1 inch = 150 ft.

R.A. Smith National, Inc.

Beyond Surveying and Engineering

16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-797-7373
www.rasmithnational.com

C:\unzipped\PX101B150 - Standard\
PX101B150.dwg\PX101B150

SOIL SAMPLE LOCATIONS

SHEET 1 OF 1

FIGURE 6

R.A. Smith National, Inc.

APPENDIX A

Reference Copies #1 - #22

Ref. 1

Tax Listing Home - Register of Deeds/Treasurer - County Data Warehouse - version 1.1

Help

Search by

County Data Warehouse

Search By Tax Key

Search By Property Address

Pay Your Taxes Online (more information)

Tax Listing contains records through 12/31/2008, and work file data for the current year. (please see disclaimer)

Document Search

For assistance with Tax Listing Information,
Please email taxlisting@waukeshacounty.gov or
contact the Register of Deed's Office at (262)548-7577

For assistance with Tax Billing Information,
contact the Treasurer's Office at (262)548-7029

County Web Site Internet user

This program accesses data from databases maintained by several County Departments and Local Municipalities. There may be inconsistence in data depending on the date the information was gathered or the purpose for which it is maintained. Due to variances in sources and update cycles, there is no guarantee as to the accuracy of the data. For questions regarding tax listing, contact the County Register of Deed's Office at (262)548-7577 . For questions regarding County Tax Bills, contact the County Treasurer's Office at (262)548-7029 .

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Ref. 2

PRE-CERCLIS SCREENING REPORT

For:

Hartland Well #3

Non-Responsive

[redacted]

PREPARED FOR:

REMEDIATION AND REDEVELOPMENT PROGRAM
WISCONSIN DEPARTMENT OF NATURAL RESOURCES

AUGUST 12, 2009

Prepared by: Mark Drews, Hydrogeologist
Remediation and Redevelopment Program
Southeast Region

SECTION 1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response Compensation Liability Act of 1980 (CERCLA), and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Wisconsin Department of Natural Resources (WDNR) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a Pre-CERCLIS Screening Assessment (PCS) at Hartland Well #3 as part of the FY '08 Cooperative Agreement. The Hartland Well #3 facility is located at the approximate address of Non-Responsive [redacted] Appendix A, Figures 1 and 2). The facility does not have associated WDNR Facility Identification (FID) numbers for this location. FID No. 268357100 is associated with the Bark River ERP (Environmental Repair) site which is approximately 3 blocks to the east and is related to reported releases from the presence of buried drums on the property and associated environmental investigations and remediation.

A PCS is a review of information on potential Superfund sites to determine whether the facility should be entered into EPA's Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS). If, over the course of the investigation, there is sufficient information to suggest the facility is impacting human health or the environment, it can be placed in CERCLIS and will progress through the Superfund investigative process.

SECTION 2.0 FACILITY BACKGROUND

The facility is identified as the location of Municipal Well #3 in Hartland, Wisconsin. PCS activities included a review of available information, a visual site reconnaissance, a determination of current land use, and a determination regarding whether the subject property poses a potential threat to human health and the environment. Information is not available on State and Federal databases using the facility name (U.S. Environmental Protection Agency - CERCLIS database) and Wisconsin Department of Natural Resources – SHWIMS (Solid and Hazardous Waste Information Management System) and BRRTS (Bureau of Remediation and Redevelopment Tracking System) databases. The facility is not on the CERCLIS database but will be added at a later date. Some environmental media data is available from previous site

UAT - ua.dnr.wi.gov - user acceptance testing server - wwwmad1a0265.enterprise.wistate.us

Search

- Home
- About
- Topics
- Contact Us

RR Home

BRRTS Resources

- Search Basic
- Search Advanced
- Search Help
- Glossary
- Disclaimers
- Action Reference List
- Bulk Data Download
- Release History

CLEAN

- Overview
- RR Sites Map
- BRRTS on the Web

Geographic Information Systems

- DNR Geographic Information Systems (GIS)
- WTM83/91 Geo-referencing System

Welcome to the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web

BRRTS on the Web | RR Sites Map

BRRTS on the Web is the DNR's on-line database that provides information about contaminated properties and other activities related to the investigation and cleanup of contaminated soil or groundwater in Wisconsin. BRRTS on the Web is part of the DNR's Contaminated Lands Environmental Action Network (CLEAN), an inter-linked network of DNR databases tracking information on different contaminated land activities.

BRRTS on the Web includes (but is not limited to) the following contamination data:

- investigations and cleanups of contaminated soil and/or groundwater;
- spills;
- Superfund sites; and
- DNR funding assistance.

You can also view information from BRRTS on the Web via the RR Program's map-based system, the RR Sites Map.

First-time User?

Please review information under the "BRRTS Resources" menu on the left side of this web page. Here you will find a glossary, disclaimers and search instructions. New users are encouraged to read the "Basic Search Help" page.

Cross-database Linkage

The Activity Detail pages provide links to the Department of Commerce Tracker database, to the DNR Solid and Hazardous Waste database (SHWIMS) and to the DNR map-based RR Sites Map.

Problems?

If you can't find activities in BRRTS, please contact one of our Regional Program Associates. If you have suggestions regarding BRRTS, please send an email to Janet Sausen.

Contacting DNR Staff

To contact DNR staff assigned to an Activity, click on the project manager's name on the Activity Details page (you must have an email client installed on your computer, such as Microsoft Outlook). You may also look for our DNR Remediation & Redevelopment staff County Contacts [PDF, 36KB].

Uncontaminated Sites

BRRTS includes some locations where an environmental investigation has found contamination with little or no impact to human health and the environment, or no contamination at all. These entries may be found under three different Activity types: Abandoned Containers, No RR Action Required and some activities under General Property.

Health Information

For information related to potential health impacts from contaminated sites, please see the Wisconsin Department of Health and Family Services (DHFS) Environmental Health Resources [exit DNR] web page. It includes toxic chemical fact sheets.

For more information on this page, please contact:

Laurie Egre

Last Revised: Monday May 18 2009

dnr.wi.gov

The Official Internet Site for the Wisconsin Department of Natural Resources

101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

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UAT - ua.dnr.wi.gov - user acceptance testing server - wwwmad1a0265.enterprise.wistate.us

Ref. 4

Solid and Hazardous Waste Information System (SHWIMS)

SHWIMS on the Web (SOTW) provides access to information on sites, and facilities operating at sites, that are regulated by the Wisconsin DNR Waste Management program. Activities that occur at Facilities include landfill operation, waste transportation, hazardous waste generation, wood burning, waste processing, sharps collection and many more. A *facility* is located at a *site* and may be involved in one or more *activities* regulated by the Waste management program. (For example: ABC Corp. is operating at 123 Street, Anytown, WI and has been involved in these activities - recyclables transporter, yard waste composting <20,000 cu. yd., and hazardous waste small quantity generator.)

Go to Basic Search >> Go to Advanced Search >>

First-time User?
We encourage new users to read the Basic Search help, especially the section on searching. If you experience problems or have questions about finding activities in SHWIMS, please contact one of our regional Program Assistants. If you have suggestions or questions, please email Aggie Cook.

Before using this System:
Please review information under the "SHWIMS Resources" menu. Here you will find a glossary, disclaimers, search instructions and a form to leave feedback.

How to Contact Waste Management Staff:
You may also view Waste Management program contact information by clicking the "Staff" item under the "WM Basics" menu.

Last Revised: September 22, 2008

The Official Internet site for the Wisconsin Department of Natural Resources

101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 .
608.266.2621

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dnr.wi.gov

Ref. 5

http://www.epa.gov/superfund/sites/cursites/index.htm
Last updated on Thursday, September 3rd, 2009.

Superfund Information Systems

You are here: EPA Home Superfund Sites Superfund Information Systems Superfund Site Information

Superfund Site Information

Superfund Site Information contains information on hazardous waste sites, potentially hazardous waste sites and remedial activities across the nation, including sites that are on the National Priorities List (NPL) or being considered for the NPL. To assist in locating the desired site or information, a variety of search criteria are available such as site name, state, ZIP code, contaminants and activities performed at a site. Also, site-specific documents and records such as Records of Decision (RODs), Five-Year Reviews and fact sheets for many sites can be accessed through Superfund Site Information. A search of sites that have been archived from the inventory of active sites can be performed. At the top of the Search page, select the "Archived Sites" radio button.

Site information for NPL sites (i.e., sites proposed to the NPL, currently on the final NPL or deleted from the final NPL) is displayed in a standardized site progress profile format. The profile includes information such as the current status of cleanup efforts, what cleanup milestones have been reached and how much liquid and solid-based media have been treated. Additionally, the profile includes links to information found on EPA Regional Web sites. All information is presented in easy to understand, non-technical language. **Only NPL sites are displayed in the site progress profile format, non-NPL and archived sites are displayed in a less graphical format.**

To begin your search, click the "Search Superfund Site Information" button below.

Search Superfund Site Information

DISCLAIMER: Be advised that the data contained in these profiles are intended solely for informational purposes use by employees of the U.S. Environmental Protection Agency for management of the Superfund program. They are not intended for use in calculating Cost Recovery Statutes of Limitations and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the United States. EPA reserves the right to change these data at any time without public notice.

Ref. 6

Home About A-Z Index Contact

WDNR BRRTS on the Web

BOTW Home >> Basic Search >> Search Results

Remediation Activity Search Results

You searched for:
FID equals 268357100
1 Activity Found

Sorted by Activity Number

HELP | DOWNLOAD

Status	Activity Number & Name Address Municipality	Type	Juris	County	Region
CLOSED	02-68-245800 BARK RIVER PROPERTIES CARDINAL LN COTTONWD AVE NW CR HARTLAND	ERP	DNR	WAUKESHA	SOUTHEA

BRRTS data comes from various sources, both internal and external to DNR. There may be omissions and errors delays in updating new information. Please see the BOTW disclaimers page for more information.

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Release 2.6.1 | 11/28/2007

State of Wisconsin
Department of Natural Resources

Ref. 7

Waste Registry Screening Worksheet

Form 4400-220 (12/05)

Instructions: Information sources that can be used to fill out this worksheet include: BRRTS, SHWIMS, R&R files, WA files, regional geologic information resources, Waste Staff, County Solid Waste staff (if there is one for the county) and the EPA web site for CERCLIS. Other possible resources may include: city/town files, county files, aerial photos, readily available Sanborn Insurance maps and interviews with former employees or neighbors.

All comments should be referenced by section number in the Comments section, page 5.

I. Site Name

Site Name	County	Region
Hartland Well #3	Waukesha	SE

Non-Responsive [redacted]

Is the site known by another name(s)? ☐ Yes ☑ No ☐ Unknown

☐ City ☐ Town ☑ Village of Hartland — State: WI — If yes, Name:

II. Archiving Criteria

Check the archiving criteria that apply to the site, and provide an explanation for your choice on the comment page, Section XIII.

- ☐ 1. No documented waste disposal and no evidence on-site
- ☐ 2. Documented waste removal and no evidence on-site
- ☐ 3. Waste type is no longer regulated and is not a threat to public health, safety, welfare or the environment. [See NR500.08(1)&(2)]
- ☐ 4. Almost no site information and unable to locate site
- ☐ 5. Duplicate listing - Complete only Section VI. Do not complete remainder of worksheet

The site will be identified on Waste Registry Spreadsheet as "archived".

III. Recommendations for Follow-Up Work - - Summarize online and write details in comments, Section XIII.

1. Remediation and Redevelopment Program	☐ No	☑ Yes	Determine source of groundwater contamination.
2. Waste Management Program	☑ No	☐ Yes	
3. Drinking and Groundwater Program (no variance for well)	☑ No	☐ Yes	

IV. Legal Description of Site

Attach an air photo with site location and limits of fill/waste disposal area based on available information.

Locational Information: Other Sources (optional - add polygon to comment page, Section XIII)

WI Transverse Mercator 83/91Coordinates	¼ / ¼	¼	Section	Township	Range E / W

Non-Responsive [redacted]

DNR FID No. (9 digits)	Solid Waste License ID No. (4 digits)	BRRTS ID No. (2 digit ERP program-2 digit county-6 digit site specific)

VI. Waste Registry Tracking Decision

Note: All sites, except archived sites, must be in SHWIMS or added to SHWIMS to be tracked as a waste disposal site.

SHWIMS: _____

- ☐ Site is in SHWIMS as a waste disposal site (070-079)
- ☐ Update information in SHWIMS, attach printout of data dump report or screening worksheet with changes highlighted for Waste Management Program Assistant
- ☐ Add site to SHWIMS as waste disposal site

BRRTS: _____

- ☐ Site is in BRRTS
  - ☐ Associated with a release related to this waste disposal site
  - ☐ Not associated with this waste disposal site
- ☐ Add site to BRRTS, following regional procedure

If BRRTS update is needed follow regional procedure.

Archive: _____ ☐ Archive site (see Section II)

Print Name of Screener	Date
Mark Drews	07/09/2009

Name of File Reviewer, if different than screener

VII. Site Background Information

Site Owner/Operator Name

Village of Hartland

Street or Route	Telephone Number	City	State	ZIP Code
210 Cottonwood Ave.	(262) 367-2714	Hartland	WI	53029

Present Property Owner Name

Street or Route	Telephone Number	City	State	ZIP Code

Potential Responsible Party

Street or Route	Telephone Number	City	State	ZIP Code

VIII. Type of Site: Current and Historic (check all that apply)

A. ☐ Landfill
☐ Lined ☐ Unlined ☐ Unknown

Is there leachate collection and removal? ☐ Yes ☐ No

Does the landfill have a groundwater monitoring plan? ☐ Yes ☐ No ☐ Unknown Date of Plan:_____ (year only)

Have groundwater monitoring wells been installed? ☐ Yes ☐ No ☐ Unknown

Was a cover installed?
☐ Yes: ☐ Soil ☐ Clay ☐ Membrane ☐ Composite
☐ No

B. ☐ One-time Disposal

C. ☑ Other (spill, lagoon, pit -- add to comments page, section XIII.)

IX. Waste Information & Geologic Environment

A. Known or Suspected Sources/Wastes. Check all that apply.

☐ Abandoned containers	☐ Fly ash	☐ Surface spills
☐ Above ground pipeline or tank	☐ Foundry sand	☐ Transformer
☐ Animal carcasses	☐ Industrial accident	☐ Trees/brush
☐ Asbestos disposal	☐ Known or suspected hazardous materials	☐ Underground pipeline or tank
☐ Buried drums	☐ Municipal waste	☐ Exempted fill [NR 500.08(1) and (2)]
☐ Burning of materials	☐ Paper mill sludge	☑ Unknown
☐ Demolition/construction waste	☐ Surface impoundment/lagoons	☐ Other:_____

B. Soil Type: Estimate distances or determinations based on regional or site specific information.

☐ Regional ☑ Site specific

Clay, silt or other fine grained soils present? (lacustrine, tills, etc.) ☑ Yes ☐ No

At surface? (0 - 2') ☑ Yes ☐ No At depth? (> 2') ☑ Yes ☐ No 25 feet

Sand & gravel, coarse grained soils present? ☑ Yes ☐ No

At surface? (0 - 2') ☑ Yes ☐ No At depth? (> 2') ☑ Yes ☐ No 80 feet

C. Depth to Groundwater: ☐ Regional ☑ Site specific 30 feet

D. Direction of Groundwater Flow: ☐ Regional ☑ Site specific SE direction

E. Depth to Bedrock: ☑ Regional ☐ Site specific 250 feet

F. Bedrock Type: ☑ Regional ☐ Site specific ☐ Sandstone ☑ Limestone/Dolomite ☐ Metamorphic/Igneous

X. Site Visit Observations and Receptor Information

A. Documentation of Site Visit

A site visit must be conducted to complete the site screening. If you do not have access to enter the property, the site visit should be conducted from the perimeter of the site with the use of binoculars. The intent of the site visit is to determine general site conditions/on-site activities and adjacent land use encroachment issues.

On-site inspection conducted? ☑ Yes ☐ No

General site conditions: Document any observed releases and note whether you were able to walk the site. Some examples of things to be aware of include leachate seeps, or evidence of seeps such as stained soil/vegetation; stressed vegetation as a sign of gas migration to the surface, or of leachate seeps; quality and coverage of vegetation on the cap; odors which may indicate gas migration to the atmosphere; erosion of the cap; maintenance of positive drainage over the capped area; visual desiccation cracks in the cap. **Record comments on the comment page, Section XIII.**

B. **Potential Groundwater Receptors.** Estimate (1 mile = 5,280')

Describe receptors on comment page, Section XIII. Identify receptors within 1200' and indicate distance and direction to receptor (examples of receptors: drinking water supply wells, ponds, lakes, rivers, wetlands, etc.).

C. Site Visit Observations. Based on the site visit did you visually observe. . .

1. A release to a surface water body?	☐ Yes	☑ No
2. A leachate seep?	☐ Yes	☑ No
3. A release to soils?	☐ Yes	☑ No
4. Any odors of concern?	☐ Yes	☑ No
5. Encroachment of residences, water supplies?	☐ Yes	☑ No
6. Any erosion of the cap?	☐ Yes	☑ No
7. Any exposed waste?	☐ Yes	☑ No
8. Poor drainage (ponding) over waste mass?	☐ Yes	☑ No
9. Monitoring wells need maintenance or are damaged?	☑ Yes	☐ No
10. Is disposal area fenced to restrict access?	☐ Yes	☑ No

Please attach site photographs, regular or digital prints, to the worksheet (required).

Name(s) of Person(s) Conducting Site Visit	Date of Site Visit
Mark Drews	07/08/2009

XI. Screening Decision

A. Is there analytical data for the media of concern?

1. Groundwater:	☑ Yes	☐ No	☐ N/A	3. Surface water/sediment:	☐ Yes	☑ No	☐ N/A
2. Soil:	☐ Yes	☑ No	☐ N/A	4. Air:	☐ Yes	☑ No	☐ N/A

B. Based on analytical data from A, is there a documented release to the environment?

☑ Yes: ☑ Groundwater ☐ Soil ☐ Surface water/sediment ☐ Air
☐ No

C. Based on known or suspected sources/wastes, their physical characteristics, containment & geologic environment, do you suspect there has been or will be a release to the environment?

☑ Yes: ☑ Groundwater ☑ Soil ☐ Surface water/sediment ☐ Air
☐ No

D. Is there a need for immediate action? (Is there a known or high potential for an imminent threat to human health?)

☐ Yes: Should state/local health departments be contacted? ☐ Yes Date: _____ ☐ No
☑ No

E. Based on known or suspected sources/wastes, their physical characteristics, containment & geologic environment at this site, is initial or further sampling recommended? Describe the recommendations on comment page, Section XIII.

☑ Yes:	☑ Initial	☐ Groundwater	☑ Soil	☐ Surface water	☐ Air (landfill gas)
	☑ Further	☑ Groundwater	☐ Soil	☐ Surface water	☐ Air (landfill gas)

☐ No

☐ Continue current monitoring schedule as per Waste Management Program

XII. Sampling Explanation & Other Work Recommended

A. To document your decision for future project managers/staff, briefly explain the rationale for the overall site decision and sampling recommendation. If well sampling is recommended, please include the receptor information including well(s) location/address, owner's name, mailing address, and phone number to facilitate sampling. Please add information to comment page, Section XIII.

3. If you believe additional work is needed or not needed (addressing leachate problems, exposed waste, inadequate cover, etc.) please add information to comment page, Section XIII.

XIII. Comments

Site is the location of municipal well #3 for the Village of Hartland. Well contains trichloroethylene above drinking water standards based on previous sampling. Refer to attatched pictures.

Ref. 8

BARK RIVER WATERSHED (LR13)

Deer Creek

This 186-square-mile watershed drains portions of Washington, Waukesha, and Jefferson counties and has many natural lakes, some of them large. About 47% of the area is in Waukesha County, 45% in Jefferson County and the remainder is in Washington County. Many of the watershed's lakes are experiencing heavy development pressure or have extensive development around them. While some wetlands have been drained or filled, a significant amount of wetland remains. The greatest threat to the basin's wetlands is rapid development in Waukesha County.

The watershed is about 44% agricultural, but significant rural subdivision development occurs in the Waukesha County portion of the watershed. Of the agricultural lands, about 7% have high soil erosion potential. Thus, agriculture use and rural development degrade local surface water quality. Livestock shoreline grazing is particularly troublesome in the towns of Cold Spring and Hebron. The town of Sullivan has the fifth highest soil loss rate in Jefferson County.

The Southeastern Wisconsin Regional Planning Commission (SEWRPC), in a staff report, recommends the Bark River Watershed in Waukesha and Washington Counties be considered a "high" priority for possible selection as a nonpoint source priority watershed project. The ranking reflects the threat of polluted runoff and the negative effects on many of the lakes in the Waukesha portion of the watershed. SEWRPC ranked its portion of the watershed's streams "medium." Of the 12 lakes larger than 100 acres in the watershed, one is oligotrophic, five are mesotrophic, one is considered eutrophic and five are considered very eutrophic (WDNR).

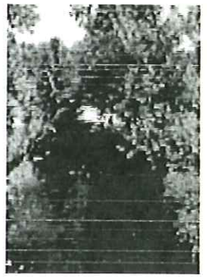
Bark River

The watershed has a high susceptibility to groundwater contamination. Because of the increasing amount of unsewered development around the many lakes in Waukesha County and the highly variable water levels in these lakes due to their groundwater-dominated characteristics, flooding of septic systems and subsequent contamination of private drinking water supplies is common. SEWRPC completed groundwater mapping for Waukesha County prior to 1991.

Table 1. Municipalities in the Bark River Watershed

Municipality	County	1995 Population	2000 Population	Percent Growth 1995 - 2000
Village of Hartland	Waukesha	7,585	7,905	4.2
Town of Delafield	Waukesha	6,809	7,820	14.8
City of Delafield	Waukesha	5,944	6,472	8.9
Town of Sullivan	Jefferson	2,022	2,124	5.0
Village of Dousman	Waukesha	1,471	1,584	7.7

Growth has occurred in this watershed's municipalities at moderate rates during the past five years, especially in the Town of Delafield. This watershed also includes the towns of Merton, Lisbon, Summit, Concord, Hebron and Cold Spring. Sewer service area plans have been prepared for the following municipalities in the Waukesha County portion of the watershed: Delafield-Nashotah (1993), Hartland (1985), and Dousman (1990). Each of these plans will likely undergo substantive revisions in the ensuing five years to accommodate this growth.



Bark River

STREAMS

Bark River The Bark River originates in Bark Lake in southern Washington County and flows southwesterly through Waukesha and Jefferson counties, joining the Rock River at Fort Atkinson. Stream water quality in the Bark River is generally poor, with conditions slightly better in the river's headwaters. There are five lakes and three impoundments on the river; three of these lakes are directly influenced by the river.

The Bark River is classified as a warm water sport fishery but is only partially meeting that use, primarily due to urban and rural polluted runoff entering the river and its tributaries. Most of the urban runoff pollution occurs in Waukesha County, where rapid development of urban and suburban "pockets" occurs along and between its many lakes.

The now-abandoned Hartland wastewater treatment plant discharged to the river upstream of Nagawicka Lake. Due to poor operation, it was identified as a major source of conventional pollutants to the river, which led to poor water quality. The old facility was replaced by the Delafield-Hartland wastewater treatment plant in 1980. A 1983 post-abandonment study indicates improved in-stream water quality conditions with reductions in ammonia, total and soluble phosphorus, biochemical oxygen demand loading, fecal coliform and streptococcus bacteria, in-stream sludge deposits, and plant biomass.

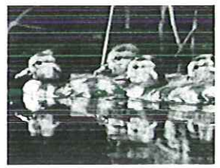
Central mudminnow

The Jefferson County portion of this river is a meandering, turbid, low-gradient stream with local flooding problems. The fishery consists of northern pike, channel catfish, panfish, and rough fish. Water quality has been degraded by polluted runoff from barnyards and farm fields and from hydrologic modifications such as ditching and straightening of tributary streams. Wetland drainage has also affected water quality. Significant wetlands exist adjacent to the Bark River in Jefferson County and some support spawning of game fish. A large state wildlife area at Prince's Point offers a variety of recreational activities.

Brown trout

Scuppernong Creek, a major tributary to the Bark River, rises at the edge of the moraines in central Waukesha County. The creek passes through rural areas much of its length, but subdivisions are developing rapidly in the upstream reach near Wales. Numerous drainage ditch inlets carry agricultural runoff to the stream. There are two impoundments on Scuppernong Creek. Historical records suggest the reach from the headwaters to Waterville Lake supported a viable trout population in the early part of this century. Excessive ditching of tributaries and wetlands and the construction of a dam at Waterville, altered stream habitat so it now supports a warm water sport fishery. From the Waterville dam downstream to Dutchman Lake the stream supports a Class I trout fishery

due to a large spring that augments flow and lowers stream temperature. Water quality from Dutchman Lake to the old Dousman Millpond is good. There are many springs and the reach supports a warm water sport fishery. Below the Dousman Millpond water quality is poor due to the large sediment load and a much lower gradient.



Ducklings

Wales Creek, a small tributary to Scuppernong Creek, is fed by an extensive system of springs; this stream may support a small population of trout.

Duck Creek flows from Goose Lake to the Bark River in eastern Jefferson County. Agricultural ditching of the stream and some of its tributaries has altered its hydrology. Though Duck Creek is a low gradient stream, it supports a diverse forage and sport fishery. More than 3,000 acres of wetland adjoin it, providing a significant buffer from polluted runoff except for an area west of Sullivan that was ditched and diverted from its original channel. A tributary to Duck Creek from the Sullivan wastewater treatment plant is currently listed as a variance water in NR 104.

LAKES

Many small lakes and impoundments exist in the watershed. Many of the lakes suffer degraded water quality from lakeshore development, construction site erosion, failing septic systems, excess lawn waste, excess fertilizer applications, and agricultural runoff.

Cattail and close-up of seedhead

Amy Belle Lake is a small, fairly deep Washington County lake with a mean depth of 20 feet. It's a Class IA lake for phosphorus sensitivity and is mesotrophic. Purple loosestrife and Eurasian water milfoil have infested the lake and access is limited. The shoreline experiences development pressure from a ring of homes around its perimeter and a proposed additional subdivision on the lake's north and northwest shoreline. Despite these problems, the native vegetation is in good condition and the lake's water quality is considered very good. Volunteer monitoring is conducted at the lake, but more is needed. An aquatic plant survey should be conducted and the septic systems surrounding the lake should be examined for problems. A lakes program protection grant could provide the money to purchase the lake's remaining corridor on the north and northwest shoreline.

Applebecker Millpond is a small impoundment of the Bark River just downstream from Lake Nagawicka. This lake suffers water quality problems similar to other small impoundments in southern Wisconsin. It has poor water quality due to heavy sedimentation and nutrient loading.

Bark Lake is a fairly good-sized seepage lake in Washington County with 64 surface acres and a mean depth of 14 feet. A lake district has existed for some time but has been inactive. The lake is considered eutrophic and it exhibits sedimentation, septic problems, and severe development pressure. The lake was monitored in 1994. There is currently a moratorium on the development of new septic systems due to groundwater contamination and shallow soils; only holding tanks are allowed. Due to the many needs of this resource, the lake district should either become more involved in the lake or disband.

Panfish, such as the black crappie, can be found in these lakes

Dutchman Lake (Ladle), a 31-acre lake has no public access and no water quality information is available. The Lower Rock River Basin Team and/or SEWRPC should conduct a water chemistry and biology and vegetation inventory and assessment of the lake.

Upper Genesee Lake has been described as pristine, exclusive, and having excellent water quality. No motors are allowed on the lake and the boat access is carry-in only. The lake experiences water-level fluctuations due to its groundwater-dominated nature; it is hydraulically connected to Middle Genesee Lake. A Pabst Farm development north of Hwy 94 may be affecting the lake's water quality from wind erosion and deposition. A WDNR lakes planning grant could help fund a joint planning process to ensure sustainable development on that property, including ensuring maintained groundwater infiltration and stormwater management activities.

Middle Genesee Lake is hydraulically connected to the Upper Genesee Lake and exhibits similar lake level fluctuations. There are an estimated 53 homes on the lake that experience septic flooding problems, eight of which are in a recent subdivision. Development around the lake must account for the system's rapidly fluctuating water levels. The U.S. Geological Survey is studying the lake to manage for the high water levels. A Lakes Planning Grant could provide funds for a plan to incorporate the results of the USGS water level investigation. The planning grant could help identify specific septic system problems and potential wetland impacts from managing the lake's water level to avoid septic system flooding.

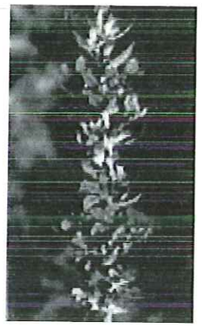
Water lily

Golden Lake is a spring-fed mesotrophic, or moderately productive, lake in Waukesha County that in the past supported a good warm water sport fishery. Nuisance aquatic weed growth has been a problem and water quality appears to have declined in the last few years due to agricultural runoff and ditching and drainage of nearby wetlands. The lake's north and south side have unsewered development. The lake has poor public access. Despite these problems, the lake supports outstanding wildlife habitat. WDNR has initiated the construction of a new public boat launch on Highway 18.

Hunters Lake has a Lake Association that conducts extended volunteer monitoring and has just finished a scoping study to establish public access. A developer that owned property on the lake gave that property to the lake association for the public access site. A Lakes Planning Grant could be used to study the lake's septic systems. A lakes protection grant could help fund development of a local ordinance for stormwater planning and erosion control protection. The lake exhibits good water quality; projected urban development in the Village of Dousman, upstream, will, however, negatively affect the lake without proper planning and controls.

Walleye: illustration and photo

Nagawicka Lake is a large mesotrophic drainage lake on the Bark River. The village of Delafield lies on the southwest edge of the lake and there is significant home and cottage development around the lake. The lake has a good Warm Water Sport Fishery and high recreational use. The lake's major issues are development pressures, lack of stormwater management, and shoreline disturbance. Nutrient and sediment loading from upstream, surrounding agricultural and urban runoff, and erosion from construction sites have affected the lake's quality. Septic systems in non-sewered areas may also be a problem, though almost the entire lake lies within a sewer service area. Applications to conduct



Purple loosestrife

dredging along the lake's west shore have been submitted. Recently, the city of Delafield purchased property along the lake to connect with the downtown corridor trail system. There are no lake association or Self-Help monitoring volunteers for this lake. A WDNR Lake Planning Grant could fund development of a long-term lake management plan for the lake, including determining the lake management institutional structure, such as developing a lake association, and protection strategies.

Upper Nashotah Lake, a high quality lake, has no lake management organization or volunteer monitoring. There are some conservancy areas around the lake's shoreline and dredging permit requests were made in 1995.

Lower Nashotah Lake is a Class IA lake and supports excellent water quality and low density housing along its shoreline. It's a marl lake that is part of the Bark River chain of lakes assessed by SEWRPC in 1993. Dredging permit requests have been submitted for work in the lake's lower bay south navigational channel. The lake may be affected by wind erosion and deposition of solids from the Pabst agricultural land-spreading site nearby. The lake is not sewered.

Upper Nemahbin Lake is a natural mesotrophic drainage lake on the Bark River. This lake also has a good warm water sports fishery and heavy recreational use. Water quality problems are due to nutrient and sediment loading from upstream; surrounding agricultural runoff; and urban runoff and erosion from construction sites. Septic systems in non-sewered areas may also be a water quality threat. The lake has good water clarity, though algae have been a problem in the past. Eurasian water milfoil, purple loosestrife and fluctuating water levels have also been problematic.

Eurasian watermilfoil

Lower Nemahbin Lake is a natural drainage, mesotrophic lake on the Bark River that supports a good warm water sport fishery. This partner lake to Upper Nemahbin also maintains Class IA water quality and experiences similar watershed pressures. Sediment and nutrient loads from upstream; surrounding septic systems; runoff from agricultural fields, lake homes and cottages; and runoff from the adjacent Interstate highway affect the lake's water quality. A Lakes Planning Grant could fund development of a watershed inventory of vegetation, as the lake's native vegetation of Chara and Vallisneria are likely affected by the non-native Eurasian water milfoil infesting the lake. There is also interest in developing sewer lines around this lake, which may protect the water quality during high flows.

Largemouth bass: illustration and photo

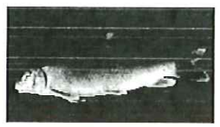
Pretty Lake is a landlocked lake just west of the interlobate moraine in Waukesha County. The lake has had a good warm water sport fishery and high recreational use. The entire shoreline is heavily developed with homes and cottages. Water quality is generally good. Nearby wetlands have been ditched and drained, which may be affecting water quality. A potential for failing septic systems exists, adding to water quality problems. Fluctuating water levels are also a problem and the lake is regularly pumped to maintain lake levels. Septic systems around the lake have been replaced with mound systems. The U.S. Geological Survey conducted modeling of the lake's groundwater-driven system to determine what actions to take to maintain the system's functional values, while preventing septic flooding and nutrient contamination of the lake. The Lake District pays for the pumping and has received a high capacity well permit from the state.

Waterville Lake is an impoundment of Scuppernong Creek east of Dousman. It is a high recreational use lake with significant subdivision development around it. Water quality problems are due to runoff from agricultural lands and surrounding development. Failing septic systems and fluctuating water levels may be problems.

Slender madtom

Resources of Concern (LR13)

WDNR's Heritage Resources Database indicates that the following water-dependent endangered, threatened or special concern species and/or communities have been sighted in this watershed within the last 20 years.



Greater redhorse

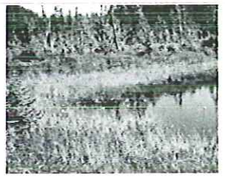
Table 2. Endangered, Threatened or Species of Special Concern

Species Common Name	Latin Name	Habitat
Greater Redhorse	*Moxostoma valenciennesi*	Bark River - 1 fish 1976
Lake Chubsucker	*Erimyzon sucetta*	Bark River, Rome Millpond
Slender Madtom	*Noturus exilis*	Bark River
Blanding's Turtle	*Emydoidea blandingii*	NA

Table 3. Endangered, Threatened or Communities of Special Concern

Community	Location	Indicator Species/Description
Bird Rookery	Prince's Point	Great Blue Heron Rookery
Southern Mesic Forest	Trillium Woods, Rome Pond Wildlife Area	Gently sloping island adjoining south bank of Bark River, surrounded by open wetland, supports medium age mesic to dry mesic forest of sugar maple, red oak, white oak and basswood.
Wet-Mesic Prairie	Rome Pond Prairie	A small, degraded prairie located between two upland islands within a wetland of the Rome Pond Wildlife Area. The site is somewhat weedy but contains more than 30 prairie species. The area could use burning.
Open Bog	Henrietta Lake Bog	Sphagnum mat at end of groundwater-fed lake, with typical bog species. Far south end is dominated by leatherleaf, with a few trees and shrubs establishing near the middle; this part surrounded by typha marsh. Tamarack established-east side.
Lake-Hard Bog, Northern Wet Forest, Southern Sedge Meadow, Shrub Carr, Open Bog	Goose Lake Wetland	A large and diverse wetland complex on one of the few undrained black soil tracts in the county. Goose Lake contains a diversity of submerged and emergent aquatics and is surrounded by an extensive sedge meadow and shrub-carr. To the northeast is a large tract of tamarack-dominated wet forest and two small bog lakes surrounded by floating mats of vegetation. The area is relatively undisturbed and supports numerous wildlife species. Much of the tract has been invaded by purple loosestrife.
Bog Relict	Genesee Lake Road Bog	Acid bog/tamarack relict surrounding shallow lake. A number of "northern" species are present. In good shape except for influx of purple loosestrife.

Sugar maple: foliage and leaves



A bog pond and tamaracks

Open Bog, Southern Dry-Mesic Forest	Nagawicka Lake Bog and Oak Woods	Part of a high quality coniferous bog. Disturbances to the area appear minimal with some selective cutting along the lake edge. The coniferous bog has been designated a Natural Area of regional significance. Bogs located south of the tension zone in Wisconsin area rare.
Southern Dry-Mesic Forest	Nashotah Woods	Medium age woods of oaks and hickory. This nearly impenetrable shrub layer of honeysuckle and buckthorn. A large area, but much dissected by wide trails. Interior is very open. Many exotics.
Southern Dry Forest	Lapham Peak Woods	A xeric forest of white, red and burr oaks, shagbark hickory, black cherry. Uncommon rare forest interior songbirds documented.
Hardwood Swamp	Laura Lake Swamp	Large but disturbed mix of hardwood swamp, tamarack relict, dry mesic uplands, and shrub-carr. Also contains stream and developed lake.

RECOMMENDATIONS

The Southeastern Wisconsin Regional Planning Commission (SEWRPC) is the designated planning agency for the Waukesha and Washington counties portion of this watershed. Please consult SEWRPC Planning Report Number 30, A Regional Water Quality Management Plan for Southeastern Wisconsin: An Update and Status Report, Memorandum Report No. 93 for additional water quality recommendations and information.

Hickory bud

1. The Lower Rock River Basin Team should evaluate the possibility of using the Stewardship Fund to acquire additional wetlands and areas for wetlands restoration in the vicinity of Goose Lake and the headwaters of Duck Creek and in the middle and lower reaches of Duck Creek in Jefferson County, and for stream buffers along Upper Koshkonong Creek in Dane County. [1]

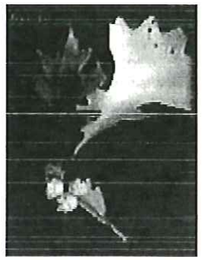
2. The Lower Rock River Basin Team should acquire wetlands and areas for wetlands restoration along two reaches of the Bark River in Jefferson County: above Rome Pond State Wildlife Area and between Prince's Point Wildlife Area and Whitewater Creek. [1]

3. The Lower Rock River Basin Team should conduct a survey to determine the presence of trout in Wales Creek. [1]

4. The Lower Rock River Basin Team should conduct a stream classification survey of Meadow Brook. [1]

5. The Lower Rock River Basin Team and/or Southeast Wisconsin Regional Planning Commission (SEWRPC) staff should conduct water quality and sediment monitoring on the Bark River for nutrients, solids, and toxics. [1]

6. The Lower Rock River Basin Team and/or SEWRPC staff should conduct baseline water quality monitoring on Bark, Hunters and Waterville lakes. [1]



Burr oak

7. The Lower Rock River Basin Team should sample fish for mercury from Pretty Lake and additional fish monitoring for mercury in Nagawicka Lake. [1]

8. The Bark River Watershed should be considered eligible for nonpoint source priority lakes cluster project selection. [1]

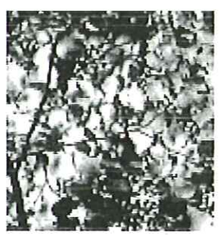
9. The villages of Wales, Dousman, Hartland, Nashotah, and Delafield, with the assistance of SEWRPC, should enact and enforce construction site erosion control and stormwater management ordinances. [2]

10. Jefferson County Land Conservation Department staff should apply for and receive a WDNR lakes protection grant to protect wetlands around Cushman Lake. [1, 2]

11. The lakes of the Bark River Watershed should be considered eligible for a priority watershed program lakes cluster project. [1]

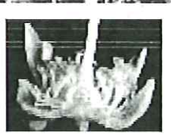
12. Citizens of Upper Genesee Lake should apply for a lakes protection grant to help fund a joint planning process to ensure sustainable development on the nearby Pabst Property, including the maintenance of groundwater infiltration and the implementation of stormwater management activities. [2]

13. The Amy Belle Lake Association should apply for a lakes program planning grant to conduct an aquatic plant survey to identify native and non-native species abundance, distribution and density and to develop a native vegetation management plan for Amy Belle Lake. [1, 2]



14. The Amy Belle Lake Association should apply for a lakes program planning grant to examine the septic systems surrounding Amy Belle Lake to ensure that there are no leaks or other problems. [1, 2]

15. The Amy Belle Lake Association should apply for a lakes program protection grant to purchase the lake's remaining undeveloped corridor on Amy Belle Lake's north and northwest shoreline. [1, 2]



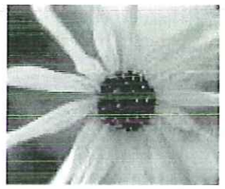
Basswood canopy and flower close-up

16. The Bark Lake District should either become more involved in the lake or disband. [2]

17. The Lower Rock River Basin Team and/or SEWRPC should conduct a water chemistry and biology and vegetation inventory and assessment of Dutchman Lake in Waukesha County. [1]

18. Middle Genesee Lake should receive a lakes planning grant to develop a plan that incorporates the results of the recent U.S. Geological Survey water level investigation; the planning grant would identify specific septic problems and potential wetland impacts from managing the lake's water level to avoid flooding the septic systems. [1, 2]

19. The Hunter Lake Association should apply for a WDNR lakes planning grant to study Hunter Lake's septic systems. [2]



A sunflower typically found in dry-mesic prairies

20. The Hunter Lake Association should apply for a WDNR lakes planning grant to fund development of a local ordinance for stormwater planning and erosion control protection for Hunter Lake, especially in light of projected development in the village of Dousman. [2]

21. The village and city of Delafield should apply for a WDNR lake planning grant to develop a long-term lake management plan for Nagawicka Lake, including determining the lake management institutional structure and protection strategies. [1, 2]

22. The Lower Nemahbin Lake Association should apply for a WDNR lakes planning grant to fund a lake basin inventory of vegetation in and around Lower Nemahbin Lake. [2]

23. WDNR should evaluate the fishery in Upper Koshkonong Creek for possible impairment and include it on the 303(d) list of impaired streams. [1]

1. These recommendations are a basis for work planning or other decisions, which must be approved by the appropriate DNR division administrator (the recommendations are a starting point for the work planning process.

2. These recommendations are advisory to the public, local governments, lake management organizations, and other groups or agencies. These recommendations are not binding. No statutory or codified requirements exist

Sundew: a carnivorous plant typically found in bogs

ACKNOWLEDGMENTS

The knowledge and expertise of Sue Beyler, Donald Bush, Ron Kroner, Dave Marshall, David Meyer, Randy Schumacher, Dale R Shaver, Dr Jeffrey Thornton, Scott Toshner and Robert Wakeman contributed greatly to this report.

Photo credits: WDNR (all photos except the following); Mike Sorge (fish photos); Virgil Beck (fish illustrations);WI Extension/WDNR (purple loosestrife, milfoil); Virginia Kline's Vegetation of Wisconsin Collection (cattail, cattail close-up, sugar maple canopy, bog pictures, hickory bud, basswood canopy, sundew); Mike Clayton/WI State Herbarium (sugar maple and burr oak leaves); John H. Beaman/WI State Herbarium (basswood flower close-up); WI Water Resources Clip Art Collection (pond life).

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A floating bog mat with sedges, sphagnum moss and leatherleaf

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Table 4. Bark River Watershed (LR13)

Stream Name	WBIC	County	Length (Miles)	Existing Use (Miles)	Potential Use (Miles)	Supporting Potential Use (Miles)	Current Codified Use	303(d) Status	Use Impairment		Data Assess-ment	Data Level	Trend	References
									Source	Impact				
Bark River	0813500	Jefferson Waukesha	68	WWSF/68	Same	Part - Thr	WWSF*	Y	HM, PSB, BY, CL, URB, CE, PSM, DEV, NPS	FLOW, HAB, MIG, TURB, DO, NUT, SED, MAC, TEMP, ZM	E	B3 H2	S	2, 3, 17, 27, 49, 50, 47, 59, 60, 78, 84, 87
Deer Creek	0828700	Jefferson	0 - 2	WWSF/2	Same	Part	WWSF*	N	HM, NPS	FLOW, HAB, TURB, TEMP, DO	E	B3 H2	S	17, 27, 47, 59, 60, 87
			2 - 12	LFF/10	Same	Part	WWSF*	N						
Duck Creek	0823300	Jefferson	11	WWSF/11	Same	Part - Thr	85	N	HM, NPS, PSM, CL, BY	FLOW, HAB, TURB, DO, TEMP, MAC, NUT, SED, FKILL	M	B4 H4 C3	S	17, 27, 38, 47, 59, 60, 78, 84, 87
Scuppernong Creek	0825600	Waukesha	0 - 6	WWSF/6	Same	Full	WWSF*	N	HM, DEV, URB, SB, CE, NPS	FLOW, HAB, MIG, TEMP, DO, NUT, SED, MAC	E	B3 H2	D	41, 50, 84
			6 - 8	COLD/2	Same	Full								
			8 - 12	WWSF/4	COLD/4	Not								
Wales Creek	0826700	Waukesha	3.5	COLD/3.5	COLD/3.5	Not	WWSF*	N	HM, NMM, SB	SED	E	B3 H2	S	50
36 Unnamed Streams			64											

Table 5. Lakes of the Bark River Watershed (LR13)

Lake Name	County	Town, Range, Section	WBIC	Surface Area (Acres)	Max Depth (ft)	Mean Depth (ft)	Lake Type	Winter kill	Acc-ess	SH	Hg	Mac	LMO	TSI	TSI Class	Lake Plan Prot	P Sens	Impairment		Comments
																		Source	Impact	
Amy Belle Lake	Washington	T09NR19E S25	0774000	26	37	20	SE	N	PRI	C	GA	PL EM	ASSC	37*	ME	–	I A	URB, DEV	–	shoreline: developed ring of homes N, NW
Applebecker Millpond	Waukesha	T07NR18E S19	0827700	12	5	–	DG	Y	T	–	GA	–	–	–	–	–	II Ins	–	–	–
Bark Lake	Washington	T09NR19E S26	0828600	62	34	14	SP	N	X	–	GA	EM	X	–	EU	–	I A	ACC, DEV	SED	outlet dredged
Beaver Dam Lake	Waukesha	T05NR17E S26	0774300	36	6	–	DG	Y	X	–	GA	–	Y	–	EU	PLAN	–	–	–	Sedge marsh SW of Pretty Lake; waterfowl feeding and resting area
Buth Lake	Waukesha	T07NR17E S27	0774900	4	5	–	SE	–	–	–	GA	–	–	–	–	–	–	–	–	–
Crooked Lake	Waukesha	T07NR17E S23	0826800	58	16	–	DG	N	NAV	X	GA	EM	Y	47*	ME	–	II A	–	–	shoreline: little development; outstanding wildlife habitat
Cushman Pond	Jefferson	T06NR15E S24	0823900	48	7	–	–	Y	UNS	R	GA	–	–	–	–	–	II Ins	DEV	HAB	Acreage of pond fluctuates with flow
Duck Lake	Waukesha	T07NR17E S22	0775500	12	1	–	SE	–	–	–	GA	–	–	–	–	–	II Ins	–	–	–
Dutchman Lake	Waukesha	T06NR17E S02	0826400	31	43	27	SE	N	NAV	–	GA	EM	–	–	–	–	I A	HM, NPS, CL,	SED, NUT, ALG, MAC, HAB	rec: assessment of lake
Egg Lake	Waukesha	T07NR17E S23	0775600	2	3	–	SE	–	–	–	GA	–	–	–	–	–	–	NPS	NUT, ACC	–
Golden Lake	Waukesha	T07NR17E S30	0775900	250	46	–	SP	N	BR	C	GA	EM	ASSC	–	ME	–	I A	DEV, SEP	–	outstanding wildlife habitat; unsewered dev.
Goose Lake	Jefferson	T07NR16E S27	0823700	144	4	–	DG	Y	–	–	GA	–	–	–	–	–	II Ins	–	–	–
Green Isle Lake	Jefferson	T05NR15E S02	0823000	28	15	–	DG	Y	UNS	–	GA	–	–	–	–	–	II B	–	–	State Wildlife Area; wetlands

Lake Name	County	Town, Range, Section	WBIC	Surface Area (Acres)	Max Depth (ft)	Mean Depth (ft)	Lake Type	Winter kill	Acc-ess	SH	Hg	Mac	LMO	TSI	TSI Class	Lake Plan Prot	P Sens	Impairment		Comments
																		Source	Impact	
Henrietta Lake	Waukesha	T07NR17E S35	0776600	15	7	7	SP	–	BR	–	GA	EM	–	–	–	–	II Ins	–	–	–
Hunters Lake	Waukesha	T06NR17E S11	0826300	65	46	1	SP	N	NAV	C	GA	EM PL	ASSC	45***	ME	–	II A	DEV, ACC	HAB, SED, NUT	development in Dousman
Larkin Lake	Waukesha	T06NR17E S15	0777700	57	4	–	SP	–	–	–	GA	–	–	–	–	–	–	–	–	–
Lower Genesee Lake	Waukesha	T07NR17E S27	0778100	66	45	18	SP	N	BR	X	GA	EM	Y	–	ME	PROT	I A	WLF, AGSPR, DEV	–	–
Lower Nashotah Lake	Waukesha	T07NR17E S13	0827300	90	43	20	SP	N	BR	R	GA	ZM	ASSC	42*	ME	–	I A	DEV, AGSPR	SED	low density shoreline dev.; dredging requests for S. bay; wind erosion
Lower Nemahbin Lake	Waukesha	T07NR17E S24	0827000	271	36	10	DG	N	BR	C	GA	EM ZM	ASSC	38*	ME	–	I A	URB, DEV, NPS	–	–
Merton Millpond	Waukesha	T08NR18E S24	0828200	38	8	–	DG	N	T	–	GA	EM PL	–	–	EU	–	II A	DEV, URB, NPS	TURB ,HAB	Merton area is developing quickly
Middle Genesee Lake	Waukesha	T07NR17E S22	0778300	109	40	8	SE	N	BR	R	GA	EM	DIST	–	ME	–	I A	WLF, AGSPR, DEV	–	clam population
Mud Lake	Washington	T09NR19E S25	0778800	5	10	3	SE	–	–	–	GA	–	–	–	–	–	–	–	–	–
Nagawicka Lake	Waukesha	T07NR18E S17	0828000	917	90	36	DG	N	BR	R	GA	EM PL ZM	Y	44*	ME	–	I A	DEV, URB, NPS	HAB, SED	outstanding wildlife habitat; LTTM
Pretty Lake	Waukesha	T06NR17E S28	0779300	64	35	–	SE	N	BR	–	GA	–	DIST	40*	ME	–	I A	WLF, DEV	–	pumping GW to maintain water level; USGS study
Reagon Lake	Waukesha	T06NR17E S22	0779400	16	10	5	SP	–	–	–	GA	–	–	–	–	–	I Ins	–	–	–
Rome Millpond	Jefferson	T06NR16E S17	0824400	446	7	2	DG	Y	UNS	–	GA	EM	X	52*	EU	–	II B	–	–	State Wildlife Area, excellent wetlands

Lake Name	County	Town, Range, Section	WBIC	Surface Area (Acres)	Max Depth (ft)	Mean Depth (ft)	Lake Type	Winter kill	Acc-ess	SH	Hg	Mac	LMO	TSI	TSI Class	Lake Plan Prot	P Sens	Impairment		Comments
																		Source	Impact	
Round Lake	Jefferson	T07NR16E S23	0779700	3	3	–	SE	–	–	–	GA	–	–	–	–	–	–	–	–	–
School Section Lake	Waukesha	T06NR17E S17	0825000	117	8	3	DG	N	BR	R	GA	EM PL	DIST	53*	ME	–	II A	HM, NPS	SED, MAC	milfoil problem; outstanding wildlife area
Scuppernong Creek Pond	Waukesha	T06NR17E S10	0826000	20	5	2	DG	–	R	–	GA	–	–	–	–	–	–	–	–	–
Slabtown Pond	Jefferson	T06NR16E S20	0824200	32	7	–	DG	N	–	–	GA	–	–	–	–	–	–	–	–	deep marsh/shallow pond; dam removed
Spahn Lake	Waukesha	T07NR17E S25	0779900	222	44	–	SE	–	T	–	GA	–	–	–	–	–	–	–	–	–
Spring Lake (Dousman Lake)	Waukesha	T06NR17E S30	0708100	14	8	–	SE	–	–	–	GA	EM	ASSC	–	–	–	–	–	–	–
Sybil Lake	Waukesha	T07NR17E S28	0780500	2	–	–	SE	–	–	–	GA	–	–	–	–	–	–	–	–	–
Upper Genesee Lake	Waukesha	T07NR17E S22	0788500	37	27	14	SP	N	NAV	–	GA	EM	Y	–	ME	–	I A	WLF, DEV, AGSPR	–	excellent WQ; GW dominated system; SEWRPC corridor study.
Upper Nashotah Lake	Waukesha	T07NR17E S12	0827500	133	53	21	SP	N	R	R	GA	–	–	46*	ME	–	I A	DEV	SED	excellent water quality; low density residential shoreline
Upper Nemahbin Lake	Waukesha	T07NR17E S24	0827100	283	61	30	DG	N	BR	C	GA	EM ZM	DIST	46***	ME	–	I A	–	–	good water quality; heavily used lake
Utica Lake	Waukesha	T06NR17E S04	0825800	14	25	14	SP	–	W	–	GA	EM	–	–	–	–	I Ins	–	–	–
Waterville Millpond	Waukesha	T07NR17E S36	0826600	68	12	4	DG	N	X	R	GA	EM	–	–	EU	–	II A	WLF, HM, DEV	ACC, NUT, TURB	good WWSF; ring of development around reservoir
Widgeon Lake (Bowron Lake)	Waukesha	T07NR17E S23	0774600	25	25	–	SP	N	–	–	GA	–	–	–	–	–	I A	–	–	–

CHRYSLER

Ref. 9

RECEIVED
NOV 06 2007
Regulatory Affairs
By LS

November 1, 2007

Mr. Mark Drews, Hydrogeologist
c/o Ms. Vicky Stovall
Bureau for Remediation and Redevelopment
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Drive
Milwaukee, Wisconsin 53212

Re: Case Summary and Close Out Request
Bark River Properties Site
Hartland, Wisconsin
FID #: 268357100, HW/GENCL
USEPA ID#WID988635322

Dear Mr. Drews:

DaimlerChrysler Corporation is pleased to submit the Case Summary and Close Out Request for the Bark River Properties Site in Hartland, Wisconsin.

Enclosed, please find the Close-Out Review fee and the GW GIS Registry fee. If you have any questions, please do not hesitate to contact me at (248) 576-7360.

Sincerely,
Chrysler LLC

Patricia L. Beaujon

Patricia L. Beaujon, P.E.
Superfund Specialist

Attachments

cc: Beth Bachausen, Bark River Properties

PLB:/y/data/sites/bark river/Let_Closure_Request_127.doc

CASE HISTORY AND JUSTIFICATION FOR CASE CLOSURE
BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

1.0 Introduction

In May 1992, Wisconsin Electric Company personnel discovered a single buried drum while conducting cable-laying activities within a utility easement on the east side of the Bark River Properties (BRP) parcel. The 1.14-acre property is located at the northwest corner of Cardinal Lane and Cottonwood Avenue, 400 Cardinal Lane, Village of Hartland, Waukesha County, Wisconsin.

BRP subsequently retained Northern Environmental of Mequon, Wisconsin to conduct a magnetometer survey of the southern portion of the property. On the basis of the survey, they excavated three 55-gallon drums, which were sampled and reburied at the same location. Analytical results indicated high levels of trichloroethylene (TCE) in one of the drums and BRP notified the Wisconsin Department of Natural Resources (WDNR) of their findings on January 29, 1993.

On March 15, 1993, the WDNR notified BRP of the requirement to close the unlicensed hazardous waste storage and disposal facility. BRP subsequently submitted a "Phase I Closure Plan" on April 22, 1993.

On June 15, 1993, representatives from Chrysler LLC (Chrysler), WDNR, BRP, and Leggette, Brashears & Graham, Inc. (LBG) held a meeting to discuss issues regarding the property. The WDNR determined that the excavation and reburying of the three drums constituted generation and unlicensed disposal of hazardous wastes, and requested that BRP submit a Resource Conservation and Recovery Act (RCRA) Closure Plan for the cleanup and removal of the three drums. The WDNR also requested that a site investigation be conducted. Chrysler agreed to undertake such an investigation and retained LBG to implement the work and to conduct a final closure under a voluntary action. At the time, approximately 100 to 200 drums were believed to have been buried at the site during the late 1960's and/or early 1970's.

2.0 Case History

2.1 Preliminary Site Investigation Activities

In September 1993, LBG conducted an electromagnetic induction survey and a soil vapor survey of the site. The results indicated three target areas that were likely to contain buried metallic objects, as well as the presence of both petroleum and chlorinated volatile organic compounds (VOCs) in soil and soil vapor *("Interim Field Investigation Status Report, Bark River Properties Site, Hartland, Wisconsin," Leggette, Brashears & Graham, Inc., November 1993).*

2.2 Interim Response Action

On November 22, 1993, WDNR issued conditional approval authorizing the excavation of the target areas as an interim response action. The objective of the interim response action was to mitigate potential sources of subsurface contamination associated with

buried drums reported to be present at the site by excavating and removing any such drums.

Interim response action activities were initiated on December 5, 1993 and were completed on December 17, 1993. A total of 401 drums/drum fragments were excavated from two of the three target areas at the site. No drums were encountered in the third target area where only buried sheet metal and other miscellaneous metallic objects/debris were found. In conjunction with these activities, the original three drums discovered by BRP were also excavated under separate closure guidelines in accordance with the Phase I Closure Plan. Large amounts of construction debris (concrete footings/slabs, rebar, roofing material, wood debris, piping, and plastic) were also encountered in the excavation. All wastes were properly characterized and disposed *("Interim Response Action Report, Bark River Properties Site, Hartland, Wisconsin," Leggette, Brashears & Graham, Inc., April 1994* and *"Phase I Closure Certification Report, Bark River Properties Site, Hartland, Wisconsin," Leggette, Brashears & Graham, Inc., May 1994).*

2.3 Site Investigation Activities

On April 28, 1994, WDNR issued approval authorizing implementation of proposed site investigation activities. Soil boring and sampling activities commenced on June 2, 1994 and were completed on June 8, 1994. A total of eleven soil borings were advanced. Six monitoring wells and three piezometers were subsequently installed. Fluid levels were measured and ground-water samples were collected and analyzed. A horizontally limited clay unit was determined to result in perched ground-water conditions in the southern portion of the BRP property. VOCs were documented to occur in both the perched unit and the shallow ground-water aquifer above WDNR Enforcement Standard (ES) criteria *("Site Investigation Report, Bark River Properties Site, Hartland, Wisconsin," Leggette, Brashears & Graham, Inc., September 1994).*

On September 21, 1994, WDNR issued approval authorizing proposed off-site Geoprobe™ soil and ground-water sampling. The work was conducted during the week of October 4, 1994. A total of 26 Geoprobe™ borings were advanced. Ground-water samples were collected and analyzed from each location and soil samples were collected and analyzed from 10 locations. TCE, cis-1,2-dichloroethene (DCE), and vinyl chloride (VC) were the only compounds similar to those found at the BRP site which were detected above ES criteria *("Geoprobe Sampling Survey, Bark River Properties Site, Hartland, Wisconsin," Leggette, Brashears & Graham, Inc., November 1994).*

On March 14, 1995, WDNR issued approval authorizing proposed off-site hydrogeological investigation activities. The work was conducted during the week of March 15, 1995. A total of 30 Geoprobe™ and 19 Rotosonic™ soil borings were advanced, a geophysical survey was conducted, 11 monitoring wells and 8 piezometers were installed, and 12 soil samples were collected and analyzed. Two rounds of fluid-level measurements and ground-water sampling were completed, including sampling of Geoprobe™ borings and the Village of Hartland's monitoring wells and piezometers. Local ground-water flow from the BRP site was documented to be to the southwest, with regional flow to the southeast with a gradient of 0.0009 foot/foot.

CHRYSLER

Regulatory Affairs

Mr. Mark Drews, Hydrogeologist
c/o Ms. Vicky Stovall
Bureau for Remediation and Redevelopment
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Drive
Milwaukee, Wisconsin 53212

November 1, 2007

Re: Semi-Annual Sampling Report, April through September 2007
Bark River Properties Site
Hartland, Wisconsin
FID #: 268357100, HW/GENCL
USEPA ID#WID988635322

Dear Mr. Drews:

DaimlerChrysler Corporation is pleased to submit the Semi-Annual Sampling Report for the period of April through September 2007, for the Bark River Properties Site in Hartland, Wisconsin.

If you have any questions, please do not hesitate to contact me at (248) 576-7360.

Sincerely,
Chrysler LLC

Patricia L. Beaujon, P.E.
Superfund Specialist

Attachments

cc: Michael Einweck, Village of Hartland
Beth Bachausen, Bark River Properties

PLB:/y/data/sites/bark river/let19_127.doc

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER AND
ENVIRONMENTAL ENGINEERING SERVICES

8 Pine Tree Dr.
Suite 250
St. Paul, MN 55112
Phone 651-490-1405
Fax 651-490-1006
www.lbgweb.com

October 19, 2007

Ms. Patricia L. Beaujon, CIMS 482-00-51
Chrysler LLC
Chrysler Technology Center
800 Chrysler Drive
Auburn Hills, MI 48426-2757

Re: Semi-Annual Sampling Report,
April through September 2007
Bark River Properties Site
Hartland, Wisconsin
FID #: 268357100, HW/GENCL
U. S. EPA ID #: WID988635322

Dear Ms. Beaujon:

As requested by the Wisconsin Department of Natural Resources (WDNR), Leggette, Brashears & Graham, Inc. (LBG) hereby submits this report to summarize the results of the June and September 2007 quarterly ground-water monitoring events at the Bark River Properties site (BRP Site) (Figure 1).

Scope of Work

Chrysler LLC (Chrysler) expanded the original WDNR-approved ground-water monitoring scope of work for the period of November 2006 through September 2007 in anticipation of making a formal request for closure at the site. The original scope of work included measuring fluid levels at 44 locations and collecting ground-water samples for laboratory analysis from 10 monitoring wells on a semiannual basis. In addition to measuring fluid levels, Chrysler's expanded scope of work included collecting quarterly ground-water samples from as many as 27 monitoring wells/piezometers in order to provide a more comprehensive representation of current ground-water quality conditions.

Ground-Water Elevations

Fluid levels were measured in the monitoring wells and piezometers on June 5 and September 5, 2007 (Table 1). The water table in the general vicinity of the BRP Site is subject to

influences from a municipal water well (Village Well #3), the Bark River, and a perched ground-water unit in the southern portion of the BRP Site. The municipal well was not operational during the June or the September 2007 sampling event. During June 2007, fluid levels could not be measured at piezometer location PZ-12D due to an obstruction. During September 2007 fluid levels could not be measured in PZ-19S and PZ-18D because the piezometers could not be located within the thick marsh vegetation. The overall regional ground-water flow direction is typically to the southeast, toward the Bark River.

Shallow and deep contoured ground-water elevation maps for the June and September 2007 sampling events are presented on Figures 2, 3, 4, and 5. Fluid-level data from MW-2 and MW-10 reflect the presence of the perched ground-water unit. The perched unit occurs above the laminated clay unit. Fluid-level measurements obtained from within the perched ground-water unit are not used to generate ground-water elevation contours. As indicated on the figures, the predominant ground-water flow direction in the immediate vicinity of the BRP Site appears to be to the south and southwest. Approximately 500 feet west of the BRP Site, the local ground-water flow direction is to the southeast toward the Bark River.

In the former source area, ground-water elevations were an average of 0.28 foot higher in September than in June 2007. Source area water levels were an average of 1.9 feet higher in September 2007 than during November 2005, when water levels were at historically low levels. Historical water-level fluctuations are typically within 1 to 2 feet. Hydrographs for select monitoring wells are included in Attachment A.

Ground-Water Sampling

During the reporting period, ground-water samples were collected for laboratory analysis on a quarterly basis. Thirteen monitoring wells and seven piezometers were sampled on June 6, 2007. During the September 6, 2007 sampling event 13 monitoring wells and 14 piezometers were sampled. Accessible wells within the monitoring program were purged in accordance with the WDNR Ground Water Sampling Guidelines prior to sampling. Ground-water stabilization parameters, including oxidation reduction potential, pH, conductivity, and temperature were measured at each well to ensure that the ground-water sample was representative of the aquifer (Table 2). In addition to the ground-water stabilization parameters, dissolved oxygen concentrations were measured in the field. The ground-water sampling data sheets are included in Attachment B. Purge water was temporarily containerized during sampling activities and subsequently disposed of in a sanitary sewer inlet near the BRP Site with the permission of the Village of Hartland. The ground-water samples were submitted to Lancaster Laboratories (Wisconsin-certified for EPA 8260B) and analyzed for volatile organic compounds (VOCs) by EPA Method 8260B.

Ref. 10

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Gloria L. McCutcheon, Regional Director

Waukesha Service Center
141 NW Barstow St
Waukesha, Wisconsin 53188
Telephone 262-574-2100
FAX 262-574-2117
TTY Access via relay - 711

December 20, 2007

Chrysler LLC
Patricia Beaujon
CTC SIMS: 482-0051
800 Chrysler Dr.
Auburn Hills, MI 48326-2757

FID # 268357100
BRRTS # 02-68-245800

Subject: Conditional Closure Decision,
With Requirements to Achieve Final Closure
Bark River Properties Site, 400 Cardinal Lane, Hartland Wisconsin

Dear Ms. Beaujon:

On December 5, 2007, the Regional Closure Committee on behalf of the Department of Natural Resources (Department) reviewed your request for closure of the case described above. The Regional Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the chlorinated solvents contamination on the site from the buried 55 gallon drums appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

MONITORING WELL ABANDONMENT
The monitoring wells and piezometers at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code with the exception of wells PZ-23I, MW-22, PZ-18D, and PZ-19S if an agreement of ownership transfer of these wells can be reached. If ownership of these wells cannot be transferred, these wells will have to be abandoned. Documentation of well abandonment must be submitted on Form 3300-5B found at www.dnr.state.wi.us/org/water/dwg/gw/ or provided by the Department of Natural Resources.

PURGE WATER, WASTE AND SOIL PILE REMOVAL
Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department of Natural Resources' rules. Once that work is completed, please send appropriate documentation regarding the treatment or disposal of the remaining purge water, waste and/or soil piles.

When the above conditions have been satisfied, please submit the appropriate documentation (for example, well abandonment forms, disposal receipts, copies of correspondence, etc.) to verify that applicable conditions have been met, and your case will be closed. After your site is closed, your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites.

Information that was submitted with your closure request application will be included on the GIS Registry. To review the site on the GIS Registry web page, visit http://maps.dnr.state.wi.us/brrts.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 262-574-2146.

Sincerely,

Mark Drews

Mark Drews P.G.
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: LBG, Inc., Jennifer Shelton, 6409 Odana Rd., Suite C, Madison, WI 53719
SER File

Wisconsin Department of Natural Resources

RR Sites Map

What is RRSitesMap?

Themes | Find Location | Layers | Legend | Download Data | Print | Not All Sites Located | Help

Full State | Zoom In | Zoom Out | Zoom Last | Move | XY | Identify/Site Info | Air Photo On/Off | Advanced Tools

Themes

Click on one of the highlighted theme names below to change to a different theme.

Contaminated and Cleaned Up Sites
more information

GIS Registry
more information

Liability Limitations and Clarifications
more information

DNR Financial Actions
more information

For more information on this page and to report incorrect locations, please contact Jane Lemcke at Jane.Lemcke@wisconsin.gov or at 608-267-0554.

Scale: 1:5,086,139 go Selected Map Tool: Zoom In Zoom In

| Bureau for Remediation and Redevelopment | BRRTS on the Web | Contaminated Databases | Comments on this website |

Ref. 11

Non-Responsive

[redacted]

Ref. 12

DATE	REVISED

Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and
Environmental Engineering Services
6409 Odana Road, Suite C
Madison, WI 53719
608.441.5544

BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

SHALLOW GROUND-WATER ELEVATION CONTOUR MAP
JUNE 2007

FILE: Flow 06-2007_nkc.dwg | *DATE:* OCTOBER 2007 | *FIGURE:* 2

RSITY OF WISCONSIN GEOLOGICAL & NATURAL HISTORY SURVEY
University Avenue, Madison, Wisconsin 53706

Sample Nos. All Retained

name Hartland Village Well #3

er.... Village of Hartland
ress.. 209 Cottonwood Avenue
Hartland, WI 53029
ller.. Miller Well and Pump Company
inner. Ruekert & Mielke, Inc.
Waukesha, Wisconsin

County: Waukesha

Completed... 10/18/73
Field check.
Altitude.... 931' ETM
Use..... Municipal
Static w.l.. 33'
Spec. cap... 33 GPM/ft.

Non-Responsive
[redacted]

Quad. Hartland 7½'

Drill Hole						Casing & Liner Pipe or Curbing							
from	to	Dia.	from	to	Dia.	Wgt.& Kind	from	to	Dia.	Wgt.& Kind	from	to
0	135'				36"	New Steel .500 wall welded	0	75'	16"	Stainless steel screen .050 slot	95'	135'
					16"	New Steel A53 Gr.B .375 Wall welded	+2'	95'				

out: Kind	from	to
Neat Cement	0	75'

mples from 0 to 125' Rec'd: 11/13/73 Studied by: Mark Ver Hoeve Issued: 7/2/82

rmations: Drift.

marks: Well tested 12 hours at 1500 GPM with drawdown of 45 feet. Driller reports total well depth of 135'.
Well drilled by reverse rotary method. Hicap Perm Well No. 88131

OF WELL:

Depths	Graphic Section	Rock Type	Color	Grain Size Mode	Grain Size Range	Miscellaneous Characteristics
0-25		NO SAMPLE. Driller reports clay, sand, and boulders.				
25-30		Gravel	Mixed	Mpsb	Gran/VLpsb	Dolomite, granite, trap, chert. Trace sand.
30-35		"	"	SP/MP	Gran/Lpsb	Dol, granite, trap, chert. Trace sand, dolomitic clay.
35-40		"	"	"	Gran/VLpsb	Same.
40-45		Sand	Med pl bn	Fn/M	Vfn/VC	Much dol clay. Ltl gravel. Trace silt.
45-50		"	Med bn yl	M	"	Little gravel, silt, siliceous clay.
50-55		"	Lt yl bn	"	"	Little silt, siliceous clay.
55-60		"	Med ltylbn	M/C	"	Little silt.
60-65		Sand	Med ltbn gy	M/C	Vfn/VC	Trace silt.
65-70		"	"	C	"	Much dolomitic clay. Little gravel, silt.
70-75		"	Mixed	"	"	Trace silt.
75-80		"	Med ltylbn	"	"	Much dolomitic clay. Little gravel. Trace silt.
80-85		"	Med v plbn	"	"	Much gravel. Trace silt.
85-90		"	"	"	"	Same.
90-95		"	"	"	"	Little gravel. Trace silt.
95-100		"	"	"	"	Same.
100-105		Gravel	Mixed	S psb	Gran/VL psb	Dolomite, chert, grnt, qtz, rhyol, trp. Ltl sand. Tr silic clay.
105-110		Sand	Med v pl bn	C	Vfn/VC	Little gravel. Trace silt.
110-115		"	"	"	"	Same.
115-120		"	"	"	"	Trace gravel, silt.
120-125		Gravel	Mixed	SP	Gran/L psb	Dolomite, trap, granite, chert. Little sand. Trace silt.
		END OF LOG				
		DUPLICATE SAMPLE				
55-60		Clay	Gry brown	--	--	Dolomitic. Much silt. Little sand. Trace gravel.

Ref. 14

State & County QuickFacts

Waukesha County, Wisconsin

People QuickFacts	Waukesha County	Wisconsin
Population, 2008 estimate	380,629	5,627,967
Population, percent change, April 1, 2000 to July 1, 2008	5.5%	4.9%
Population estimates base (April 1) 2000	360,752	5,363,708
Persons under 5 years old, percent, 2008	5.6%	6.4%
Persons under 18 years old, percent, 2008	22.8%	23.4%
Persons 65 years old and over, percent, 2008	13.9%	13.3%
Female persons, percent, 2008	50.5%	50.3%
White persons, percent, 2008 (a)	94.9%	89.7%
Black persons, percent, 2008 (a)	1.4%	6.1%
American Indian and Alaska Native persons, percent, 2008 (a)	0.3%	1.0%
Asian persons, percent, 2008 (a)	2.4%	2.0%
Native Hawaiian and Other Pacific Islander, percent, 2008 (a)	Z	Z
Persons reporting two or more races, percent, 2008	0.9%	1.2%
Persons of Hispanic or Latino origin, percent, 2008 (b)	3.5%	5.1%
White persons not Hispanic, percent, 2008	91.6%	85.1%
Living in same house in 1995 and 2000, pct 5 yrs old & over	58.6%	56.5%
Foreign born persons, percent, 2000	3.6%	3.6%
Language other than English spoken at home, pct age 5+, 2000	5.9%	7.3%
High school graduates, percent of persons age 25+, 2000	92.0%	85.1%
Bachelor's degree or higher, pct of persons age 25+, 2000	34.1%	22.4%
Persons with a disability, age 5+, 2000	39,098	790,917
Mean travel time to work (minutes), workers age 16+, 2000	22.2	20.8
Housing units, 2007	155,864	2,560,099
Homeownership rate, 2000	76.4%	68.4%
Housing units in multi-unit structures, percent, 2000	23.2%	26.2%
Median value of owner-occupied housing units, 2000	$170,400	$112,200
Households, 2000	135,229	2,084,544
Persons per household, 2000	2.63	2.50
Median household income, 2007	$72,432	$50,567
Per capita money income, 1999	$29,164	$21,271
Persons below poverty, percent, 2007	4.1%	10.8%

Business QuickFacts	Waukesha County	Wisconsin
Private nonfarm establishments with paid employees, 2006	12,993	145,836[1]
Private nonfarm employment, 2006	224,742	2,482,281[1]

Private nonfarm employment, percent change 2000-2006	-0.2%	2.8%[1]
Nonemployer establishments, 2006	26,090	323,649
Total number of firms, 2002	33,805	393,241
Black-owned firms, percent, 2002	0.7%	1.7%
American Indian and Alaska Native owned firms, percent, 2002	0.4%	0.6%
Asian-owned firms, percent, 2002	1.2%	1.3%
Native Hawaiian and Other Pacific Islander owned firms, percent, 2002	F	0.0%
Hispanic-owned firms, percent, 2002	1.0%	1.0%
Women-owned firms, percent, 2002	25.4%	26.5%
Manufacturers shipments, 2002 ($1000)	8,914,601	124,664,004
Wholesale trade sales, 2002 ($1000)	10,293,752	68,510,712
Retail sales, 2002 ($1000)	5,238,908	59,978,700
Retail sales per capita, 2002	$14,146	$11,025
Accommodation and foodservices sales, 2002 ($1000)	484,504	6,885,765
Building permits, 2008	890	15,509
Federal spending, 2007 ($1000)	1,839,408	38,177,296[1]

Geography QuickFacts	Waukesha County	Wisconsin
Land area, 2000 (square miles)	555.58	54,310.10
Persons per square mile, 2000	648.9	98.8
FIPS Code	133	55
Metropolitan or Micropolitan Statistical Area	Milwaukee-Waukesha-West Allis, WI Metro Area	

1: Includes data not distributed by county.

(a) Includes persons reporting only one race.
(b) Hispanics may be of any race, so also are included in applicable race categories.

D: Suppressed to avoid disclosure of confidential information
F: Fewer than 100 firms
FN: Footnote on this item for this area in place of data
NA: Not available
S: Suppressed; does not meet publication standards
X: Not applicable
Z: Value greater than zero but less than half unit of measure shown

Source U.S. Census Bureau: State and County QuickFacts. Data derived from Population Estimates, Census of Population and Housing, Small Area Income and Poverty Estimates, State and County Housing Unit Estimates, County Business Patterns, Nonemployer Statistics, Economic Census, Survey of Business Owners, Building Permits, Consolidated Federal Funds Report
Last Revised: Tuesday, 18-Aug-2009 08:12:41 EDT

Table DP-1. Profile of General Demographic Characteristics: 2000

Geographic area: Hartland village, Wisconsin

[For information on confidentiality protection, nonsampling error, and definitions, see text]

Subject	Number	Percent
Total population	**7,905**	**100.0**
SEX AND AGE		
Male	3,823	48.4
Female	4,082	51.6
Under 5 years	550	7.0
5 to 9 years	599	7.6
10 to 14 years	754	9.5
15 to 19 years	651	8.2
20 to 24 years	411	5.2
25 to 34 years	1,100	13.9
35 to 44 years	1,547	19.6
45 to 54 years	1,146	14.5
55 to 59 years	317	4.0
60 to 64 years	240	3.0
65 to 74 years	318	4.0
75 to 84 years	220	2.8
85 years and over	52	0.7
Median age (years)	34.1	(X)
18 years and over	5,560	70.3
Male	2,674	33.8
Female	2,886	36.5
21 years and over	5,273	66.7
62 years and over	717	9.1
65 years and over	590	7.5
Male	222	2.8
Female	368	4.7
RACE		
One race	7,843	99.2
White	7,723	97.7
Black or African American	22	0.3
American Indian and Alaska Native	26	0.3
Asian	38	0.5
Asian Indian	4	0.1
Chinese	2	-
Filipino	4	0.1
Japanese	5	0.1
Korean	6	0.1
Vietnamese	4	0.1
Other Asian [1]	13	0.2
Native Hawaiian and Other Pacific Islander	-	-
Native Hawaiian	-	-
Guamanian or Chamorro	-	-
Samoan	-	-
Other Pacific Islander [2]	-	-
Some other race	34	0.4
Two or more races	62	0.8
Race alone or in combination with one or more other races: [3]		
White	7,785	98.5
Black or African American	35	0.4
American Indian and Alaska Native	52	0.7
Asian	57	0.7
Native Hawaiian and Other Pacific Islander	1	-
Some other race	40	0.5

Subject	Number	Percent
HISPANIC OR LATINO AND RACE		
Total population	**7,905**	**100.0**
Hispanic or Latino (of any race)	119	1.5
Mexican	61	0.8
Puerto Rican	17	0.2
Cuban	6	0.1
Other Hispanic or Latino	35	0.4
Not Hispanic or Latino	7,786	98.5
White alone	7,654	96.8
RELATIONSHIP		
Total population	**7,905**	**100.0**
In households	7,902	100.0
Householder	3,002	38.0
Spouse	1,722	21.8
Child	2,762	34.9
Own child under 18 years	2,277	28.8
Other relatives	116	1.5
Under 18 years	38	0.5
Nonrelatives	300	3.8
Unmarried partner	140	1.8
In group quarters	3	-
Institutionalized population	-	-
Noninstitutionalized population	3	-
HOUSEHOLD BY TYPE		
Total households	**3,002**	**100.0**
Family households (families)	2,160	72.0
With own children under 18 years	1,241	41.3
Married-couple family	1,722	57.4
With own children under 18 years	931	31.0
Female householder, no husband present	330	11.0
With own children under 18 years	247	8.2
Nonfamily households	842	28.0
Householder living alone	668	22.3
Householder 65 years and over	215	7.2
Households with individuals under 18 years	1,275	42.5
Households with individuals 65 years and over	448	14.9
Average household size	2.63	(X)
Average family size	3.13	(X)
HOUSING OCCUPANCY		
Total housing units	**3,140**	**100.0**
Occupied housing units	3,002	95.6
Vacant housing units	138	4.4
For seasonal, recreational, or occasional use	6	0.2
Homeowner vacancy rate (percent)	2.8	(X)
Rental vacancy rate (percent)	2.9	(X)
HOUSING TENURE		
Occupied housing units	**3,002**	**100.0**
Owner-occupied housing units	1,746	58.2
Renter-occupied housing units	1,256	41.8
Average household size of owner-occupied units	2.94	(X)
Average household size of renter-occupied units	2.20	(X)

- Represents zero or rounds to zero. (X) Not applicable.

[1] Other Asian alone, or two or more Asian categories.

[2] Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.

[3] In combination with one or more of the other races listed. The six numbers may add to more than the total population and the six percentages may add to more than 100 percent because individuals may report more than one race.

Source: U.S. Census Bureau, Census 2000.

Table DP-2. Profile of Selected Social Characteristics: 2000

Geographic area: Hartland village, Wisconsin

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent
SCHOOL ENROLLMENT		
Population 3 years and over enrolled in school	**2,486**	**100.0**
Nursery school, preschool	125	5.0
Kindergarten	142	5.7
Elementary school (grades 1-8)	1,139	45.8
High school (grades 9-12)	694	27.9
College or graduate school	386	15.5
EDUCATIONAL ATTAINMENT		
Population 25 years and over	**4,951**	**100.0**
Less than 9th grade	72	1.5
9th to 12th grade, no diploma	188	3.8
High school graduate (includes equivalency)	1,456	29.4
Some college, no degree	1,207	24.4
Associate degree	443	8.9
Bachelor's degree	1,098	22.2
Graduate or professional degree	487	9.8
Percent high school graduate or higher	94.7	(X)
Percent bachelor's degree or higher	32.0	(X)
MARITAL STATUS		
Population 15 years and over	**6,045**	**100.0**
Never married	1,650	27.3
Now married, except separated	3,549	58.7
Separated	34	0.6
Widowed	179	3.0
Female	153	2.5
Divorced	633	10.5
Female	369	6.1
GRANDPARENTS AS CAREGIVERS		
Grandparent living in household with one or more own grandchildren under 18 years	**20**	**100.0**
Grandparent responsible for grandchildren	-	-
VETERAN STATUS		
Civilian population 18 years and over	**5,568**	**100.0**
Civilian veterans	592	10.6
DISABILITY STATUS OF THE CIVILIAN NONINSTITUTIONALIZED POPULATION		
Population 5 to 20 years	**2,168**	**100.0**
With a disability	150	6.9
Population 21 to 64 years	**4,673**	**100.0**
With a disability	456	9.8
Percent employed	73.2	(X)
No disability	4,217	90.2
Percent employed	88.3	(X)
Population 65 years and over	**558**	**100.0**
With a disability	233	41.8
RESIDENCE IN 1995		
Population 5 years and over	**7,399**	**100.0**
Same house in 1995	3,904	52.8
Different house in the U.S. in 1995	3,415	46.2
Same county	1,961	26.5
Different county	1,454	19.7
Same state	920	12.4
Different state	534	7.2
Elsewhere in 1995	80	1.1

Subject	Number	Percent
NATIVITY AND PLACE OF BIRTH		
Total population	**7,896**	**100.0**
Native	7,695	97.5
Born in United States	7,641	96.8
State of residence	5,988	75.8
Different state	1,653	20.9
Born outside United States	54	0.7
Foreign born	201	2.5
Entered 1990 to March 2000	122	1.5
Naturalized citizen	107	1.4
Not a citizen	94	1.2
REGION OF BIRTH OF FOREIGN BORN		
Total (excluding born at sea)	**201**	**100.0**
Europe	89	44.3
Asia	83	41.3
Africa	-	-
Oceania	-	-
Latin America	15	7.5
Northern America	14	7.0
LANGUAGE SPOKEN AT HOME		
Population 5 years and over	**7,399**	**100.0**
English only	7,081	95.7
Language other than English	318	4.3
Speak English less than "very well"	94	1.3
Spanish	88	1.2
Speak English less than "very well"	32	0.4
Other Indo-European languages	158	2.1
Speak English less than "very well"	13	0.2
Asian and Pacific Island languages	72	1.0
Speak English less than "very well"	49	0.7
ANCESTRY (single or multiple)		
Total population	**7,896**	**100.0**
Total ancestries reported	*10,300*	*130.4*
Arab	-	-
Czech[1]	151	1.9
Danish	114	1.4
Dutch	197	2.5
English	537	6.8
French (except Basque)[1]	264	3.3
French Canadian[1]	100	1.3
German	3,752	47.5
Greek	30	0.4
Hungarian	19	0.2
Irish[1]	1,205	15.3
Italian	585	7.4
Lithuanian	12	0.2
Norwegian	459	5.8
Polish	796	10.1
Portuguese	-	-
Russian	50	0.6
Scotch-Irish	58	0.7
Scottish	125	1.6
Slovak	16	0.2
Subsaharan African	-	-
Swedish	280	3.5
Swiss	69	0.9
Ukrainian	40	0.5
United States or American	462	5.9
Welsh	67	0.8
West Indian (excluding Hispanic groups)	-	-
Other ancestries	912	11.6

-Represents zero or rounds to zero. (X) Not applicable.

[1]The data represent a combination of two ancestries shown separately in Summary File 3. Czech includes Czechoslovakian. French includes Alsatian. French Canadian includes Acadian/Cajun. Irish includes Celtic.

Source: U.S. Bureau of the Census, Census 2000.

Table DP-3. Profile of Selected Economic Characteristics: 2000

Geographic area: Hartland village, Wisconsin

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent
EMPLOYMENT STATUS		
Population 16 years and over	**5,818**	**100.0**
In labor force	4,672	80.3
Civilian labor force	4,672	80.3
Employed	4,564	78.4
Unemployed	108	1.9
Percent of civilian labor force	2.3	(X)
Armed Forces	-	-
Not in labor force	1,146	19.7
Females 16 years and over	**3,014**	**100.0**
In labor force	2,217	73.6
Civilian labor force	2,217	73.6
Employed	2,165	71.8
Own children under 6 years	**582**	**100.0**
All parents in family in labor force	401	68.9
COMMUTING TO WORK		
Workers 16 years and over	**4,528**	**100.0**
Car, truck, or van - - drove alone	3,991	88.1
Car, truck, or van - - carpooled	269	5.9
Public transportation (including taxicab)	2	-
Walked	95	2.1
Other means	28	0.6
Worked at home	143	3.2
Mean travel time to work (minutes)[1]	20.1	(X)
Employed civilian population 16 years and over	**4,564**	**100.0**
OCCUPATION		
Management, professional, and related occupations	1,751	38.4
Service occupations	585	12.8
Sales and office occupations	1,205	26.4
Farming, fishing, and forestry occupations	28	0.6
Construction, extraction, and maintenance occupations	356	7.8
Production, transportation, and material moving occupations	639	14.0
INDUSTRY		
Agriculture, forestry, fishing and hunting, and mining	30	0.7
Construction	284	6.2
Manufacturing	926	20.3
Wholesale trade	244	5.3
Retail trade	427	9.4
Transportation and warehousing, and utilities	166	3.6
Information	168	3.7
Finance, insurance, real estate, and rental and leasing	342	7.5
Professional, scientific, management, administrative, and waste management services	438	9.6
Educational, health and social services	948	20.8
Arts, entertainment, recreation, accommodation and food services	291	6.4
Other services (except public administration)	230	5.0
Public administration	70	1.5
CLASS OF WORKER		
Private wage and salary workers	4,011	87.9
Government workers	347	7.6
Self-employed workers in own not incorporated business	186	4.1
Unpaid family workers	20	0.4

Subject	Number	Percent
INCOME IN 1999		
Households	**3,008**	**100.0**
Less than $10,000	90	3.0
$10,000 to $14,999	141	4.7
$15,000 to $24,999	207	6.9
$25,000 to $34,999	309	10.3
$35,000 to $49,999	457	15.2
$50,000 to $74,999	765	25.4
$75,000 to $99,999	533	17.7
$100,000 to $149,999	336	11.2
$150,000 to $199,999	70	2.3
$200,000 or more	100	3.3
Median household income (dollars)	58,359	(X)
With earnings	2,677	89.0
Mean earnings (dollars)[1]	67,787	(X)
With Social Security income	494	16.4
Mean Social Security income (dollars)[1]	11,699	(X)
With Supplemental Security Income	43	1.4
Mean Supplemental Security Income (dollars)[1]	7,216	(X)
With public assistance income	17	0.6
Mean public assistance income (dollars)[1]	994	(X)
With retirement income	344	11.4
Mean retirement income (dollars)[1]	17,288	(X)
Families	**2,183**	**100.0**
Less than $10,000	25	1.1
$10,000 to $14,999	14	0.6
$15,000 to $24,999	45	2.1
$25,000 to $34,999	185	8.5
$35,000 to $49,999	376	17.2
$50,000 to $74,999	623	28.5
$75,000 to $99,999	448	20.5
$100,000 to $149,999	310	14.2
$150,000 to $199,999	65	3.0
$200,000 or more	92	4.2
Median family income (dollars)	67,844	(X)
Per capita income (dollars)[1]	26,537	(X)
Median earnings (dollars):		
Male full-time, year-round workers	48,475	(X)
Female full-time, year-round workers	30,253	(X)

Subject	Number below poverty level	Percent below poverty level
POVERTY STATUS IN 1999		
Families	**39**	**1.8**
With related children under 18 years	30	2.3
With related children under 5 years	-	-
Families with female householder, no husband present	**39**	**11.7**
With related children under 18 years	30	11.0
With related children under 5 years	-	-
Individuals	**204**	**2.6**
18 years and over	154	2.8
65 years and over	22	3.9
Related children under 18 years	50	2.2
Related children 5 to 17 years	50	2.7
Unrelated individuals 15 years and over	106	9.8

-Represents zero or rounds to zero. (X) Not applicable.

[1]If the denominator of a mean value or per capita value is less than 30, then that value is calculated using a rounded aggregate in the numerator. See text.

Source: U.S. Bureau of the Census, Census 2000.

Table DP-4. Profile of Selected Housing Characteristics: 2000

Geographic area: Hartland village, Wisconsin

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent
Total housing units	**3,175**	**100.0**
UNITS IN STRUCTURE		
1-unit, detached	1,648	51.9
1-unit, attached	315	9.9
2 units	240	7.6
3 or 4 units	239	7.5
5 to 9 units	332	10.5
10 to 19 units	153	4.8
20 or more units	248	7.8
Mobile home	-	-
Boat, RV, van, etc	-	-
YEAR STRUCTURE BUILT		
1999 to March 2000	115	3.6
1995 to 1998	241	7.6
1990 to 1994	322	10.1
1980 to 1989	455	14.3
1970 to 1979	1,044	32.9
1960 to 1969	277	8.7
1940 to 1959	374	11.8
1939 or earlier	347	10.9
ROOMS		
1 room	5	0.2
2 rooms	65	2.0
3 rooms	216	6.8
4 rooms	590	18.6
5 rooms	623	19.6
6 rooms	668	21.0
7 rooms	463	14.6
8 rooms	294	9.3
9 or more rooms	251	7.9
Median (rooms)	5.6	(X)
Occupied housing units	**3,024**	**100.0**
YEAR HOUSEHOLDER MOVED INTO UNIT		
1999 to March 2000	570	18.8
1995 to 1998	1,123	37.1
1990 to 1994	567	18.8
1980 to 1989	300	9.9
1970 to 1979	297	9.8
1969 or earlier	167	5.5
VEHICLES AVAILABLE		
None	151	5.0
1	821	27.1
2	1,452	48.0
3 or more	600	19.8
HOUSE HEATING FUEL		
Utility gas	2,422	80.1
Bottled, tank, or LP gas	10	0.3
Electricity	395	13.1
Fuel oil, kerosene, etc	143	4.7
Coal or coke	-	-
Wood	11	0.4
Solar energy	-	-
Other fuel	43	1.4
No fuel used	-	-
SELECTED CHARACTERISTICS		
Lacking complete plumbing facilities	-	-
Lacking complete kitchen facilities	-	-
No telephone service	9	0.3

Subject	Number	Percent
OCCUPANTS PER ROOM		
Occupied housing units	**3,024**	**100.0**
1.00 or less	2,995	99.0
1.01 to 1.50	6	0.2
1.51 or more	23	0.8
Specified owner-occupied units	**1,619**	**100.0**
VALUE		
Less than $50,000	10	0.6
$50,000 to $99,999	73	4.5
$100,000 to $149,999	570	35.2
$150,000 to $199,999	555	34.3
$200,000 to $299,999	303	18.7
$300,000 to $499,999	52	3.2
$500,000 to $999,999	47	2.9
$1,000,000 or more	9	0.6
Median (dollars)	161,100	(X)
MORTGAGE STATUS AND SELECTED MONTHLY OWNER COSTS		
With a mortgage	1,329	82.1
Less than $300	-	-
$300 to $499	8	0.5
$500 to $699	61	3.8
$700 to $999	218	13.5
$1,000 to $1,499	630	38.9
$1,500 to $1,999	252	15.6
$2,000 or more	160	9.9
Median (dollars)	1,316	(X)
Not mortgaged	290	17.9
Median (dollars)	391	(X)
SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1999		
Less than 15.0 percent	490	30.3
15.0 to 19.9 percent	354	21.9
20.0 to 24.9 percent	257	15.9
25.0 to 29.9 percent	183	11.3
30.0 to 34.9 percent	132	8.2
35.0 percent or more	203	12.5
Not computed	-	-
Specified renter-occupied units	**1,259**	**100.0**
GROSS RENT		
Less than $200	27	2.1
$200 to $299	45	3.6
$300 to $499	110	8.7
$500 to $749	549	43.6
$750 to $999	418	33.2
$1,000 to $1,499	105	8.3
$1,500 or more	-	-
No cash rent	5	0.4
Median (dollars)	692	(X)
GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1999		
Less than 15.0 percent	326	25.9
15.0 to 19.9 percent	234	18.6
20.0 to 24.9 percent	203	16.1
25.0 to 29.9 percent	176	14.0
30.0 to 34.9 percent	74	5.9
35.0 percent or more	232	18.4
Not computed	14	1.1

-Represents zero or rounds to zero. (X) Not applicable.

Source: U.S. Bureau of the Census, Census 2000.

Ref. 15

WAUKESHA COUNTY
Internet Mapping Site

Welcome to the Waukesha County Internet Mapping Site.

The Waukesha County Internet Mapping Site was developed to provide county departments, municipalities, and the public with geographic information for use in land use planning, zoning, and other activities.

Large amounts of data are potentially transmitted during the use of this site. Please note that loading time will vary depending on your connection speed and the amount of data being requested. Also, the site is periodically taken offline for data updates, software maintenance, etc. All attempts will be made to limit this downtime to off-business hours. (Business hours are 8:00 AM to 4:30 PM, Mon-Fri.)

For the best results when using the Internet Mapping Site, we recommend:

- Cable or DSL Internet Connection
- Disable any Pop-Up blocking software
- Screen Resolution set at 1024 x 768 or higher
- Internet Explorer version 6.0 or higher. Set your cache settings to Automatic.
- Adobe Reader version 6.0 or higher.
- If you are new to the application, check out our quick, informative Tutorial.
- See What's New on the Internet Mapping Site.
- See a list of Functional Differences between the Intra/Extra/Internet versions of this site.

Launch Map Viewer

The web map viewer uses licensed Geocortex® IMF technology

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Ref. 16

Search

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Drinking Water & Groundwater

Water Quality Data

- Drinking Water System
- Groundwater Retrieval Network

Groundwater

Monitoring

- Brochures
- Consumer Confidence Reports
- Certified Bacteriological Laboratories
- Certified Chemistry Laboratories
- Certified Radiological Laboratories
- Electronic Data Transmission
- Health Effects of Water Quality
- Lab Analysis Forms
- Public Notification Rule
- Public Water System Owners & Operators
- Public Water System Plan Review
- Site Plan

Information for Public Water System Owners and Operators

"Public Water System" means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Types of Public Water Systems

A public water system can either be a community system, like a municipality, mobile home park or subdivision; or a non-community system, like a school, factory or wayside. (See diagram [PDF]) If you provide drinking water to the public and your water system meets the definition stated above, you're a public water system owner/operator.

- Operator Handbook [PDF] (For Other-than-Municipal and Non-Transient, Non-communicty Water Systems)
- Owner/Operator Handbook [PDF] (For Transient, Non-Community Water Systems)

Wisconsin Administrative Codes for Public Water Systems

- Municipal NR 811(PDF), NR 809(PDF)
- Other than Municipal (OTM) NR 811(PDF), NR 809(PDF)
- Non-Transient NR 812(PDF), NR 809(PDF)
- Transient NR 812(PDF), NR 809(PDF)

Last Revised: Wednesday May 16 2007

(sample) Lead
and Copper

Wisconsin
Administrative Codes

dnr.wi.gov

The Official Internet Site for the Wisconsin Department of Natural Resources

101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

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Wisconsin Department of Natural Resources

RR Sites Map

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Scale: 1:5,086,139 go Selected Map Tool: Zoom In Zoom In

| Bureau for Remediation and Redevelopment | BRRTS on the Web | Contaminated Databases | Comments on this website |

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Ref. 18

INDEX - SEARCH WISCONSIN DEPARTMENT OF NATURAL RESOURCES

NHI Portal

The Gateway to Wisconsin's Biodiversity

For Internal DNR Use Only

User ID: Enter your DNR Username

NHI Portal Password:* *Not Required at this time

Natural Heritage Inventory (NHI) data are for official DNR staff use only and are not to be provided outside of the DNR. These data are exempt from the State of Wisconsin Open Records Law (s. 19.35, 23.27(3)(b)). These data are considered sensitive for several reasons and thus not appropriate for general public distribution.

Training should be completed prior to use of the NHI Portal to ensure data are interpreted correctly. If you have not yet taken the NHI Portal training or have not taken the training in the past 5 years, please register at: http://dnr.wi.gov/org/land/er/presentations/NHITraining.htm.

Please note, this site is best viewed in Microsoft Internet Explorer. If you use another browser, please see the release notes for more information. If your User ID does not work, contact Endangered Resources at 608-266-7012 for assistance.

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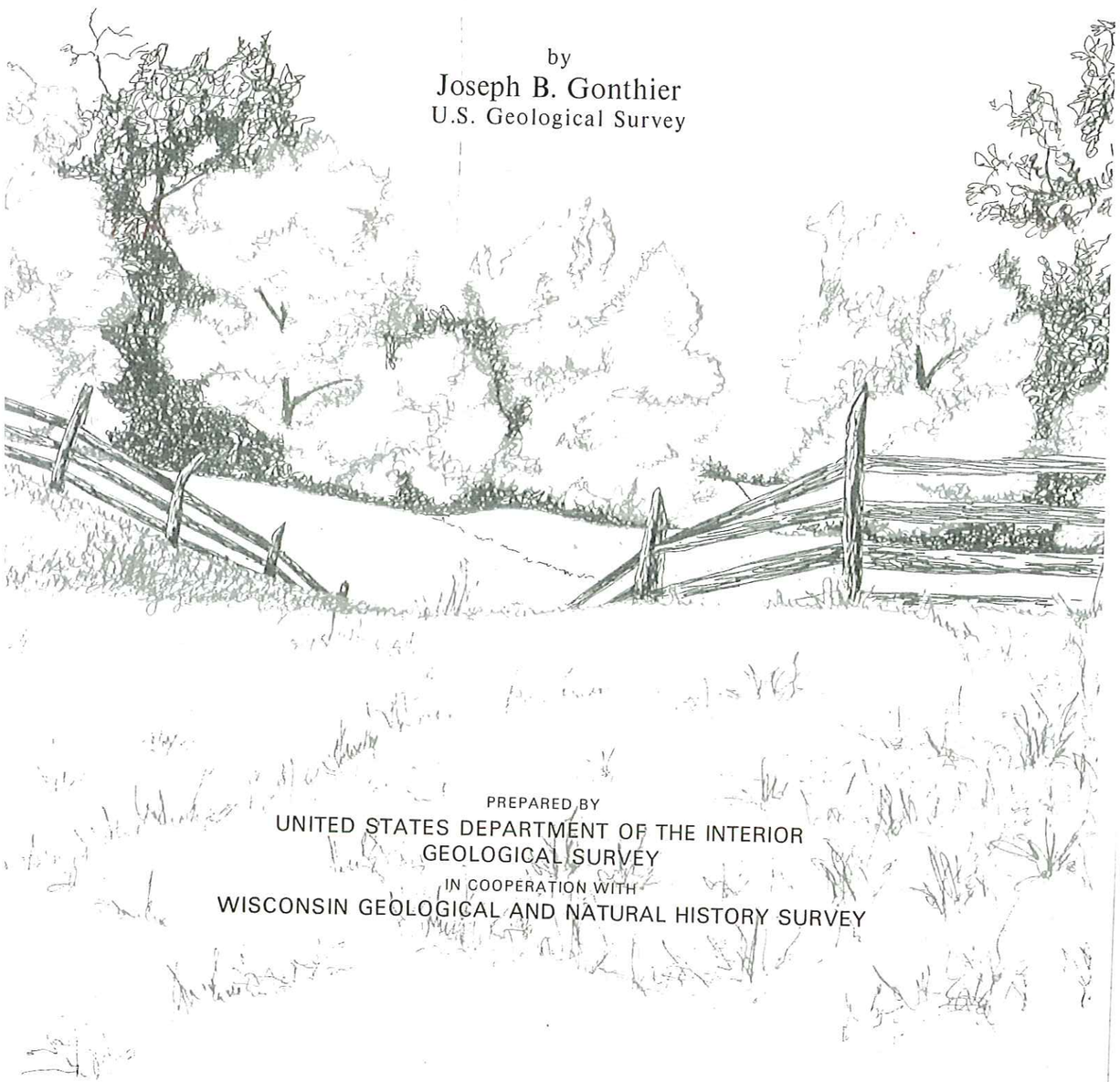
Ref. 19

INFORMATION CIRCULAR
NUMBER 29
1975

UWEX UNIVERSITY OF WISCONSIN-EXTENSION
GEOLOGICAL AND NATURAL HISTORY SURVEY

Ground-Water Resources of Waukesha County, Wisconsin

by
Joseph B. Gonthier
U.S. Geological Survey



PREPARED BY
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
IN COOPERATION WITH
WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY

Abstract

Good-quality water is available from the sand-and-gravel, Niagara, and sandstone aquifers in Waukesha County, Wis. As much as 15 gallons per minute (0.95 litres per second) can be obtained from wells almost everywhere in the county. Several hundred gallons per minute are available from aquifers in the glacial drift that fill bedrock valleys to thicknesses of 300 feet (91 metres) or more. Estimated well yields from much of the surficial outwash in western Waukesha County exceed 500 gallons per minute (31 litres per second). Estimated well yields from most of the Niagara aquifer, a dolomite as much as 325 feet (99 metres) thick in the eastern two-thirds of the county, exceed 50 gallons per minute (3.2 litres per second). The sandstone aquifer underlies the entire county and ranges in thickness from about 400 feet (120 metres) in the northwest corner to about 2,400 feet (730 metres) in the southeast corner. This aquifer yields more than 1,000 gallons per minute (63 litres per second) to wells over most of the county and is the principal source for municipal and subdivision water.

Ground water in Waukesha County is of good quality and is suitable for most uses. Most of the water is a calcium magnesium bicarbonate type, is very hard [more than 180 mg/l (milligrams per litre) hardness], and requires softening for some uses. The ground water locally contains iron and manganese concentrations that exceed the limits (0.3 and 0.05 mg/l, respectively) recommended by the U.S. Public Health Service (1962, p. 7). Water high in sulfate and dissolved solids (saline water) is present locally in the Niagara and sandstone aquifers. Water from one well contained excessive nitrate (more than 45 mg/l). With one exception, wells sampled at irregular intervals indicated no significant changes in their chemical characteristics with time.

About 24.3 million gallons per day (1.06 cubic metres per second) of ground water was pumped in the county in 1970. Sixty-two percent was withdrawn from the sandstone aquifer. More than one-half of the latter amount was for domestic use, and more than one-third was for industrial and commercial uses.

Village of Hartland

Ref. 20

ADMINISTRATION
210 Cottonwood Avenue
Hartland, WI 53029
Phone (262) 367-2714
Fax (262) 367-2430

November 2, 2007

DEPARTMENT OF
NATURAL RESOURCES
WAUKESHA SERVICE CENTER
2007 NOV -5 PM 4:53

Mr. Mark Drews
Wisconsin Dept. of Natural Resources, Room 180
141 NW Barstow Street
Waukesha, WI 53188

Subject: Village of Hartland
Bark River Properties Site
US EPA ID #: WID988635322
TCE test results – Village Well #3

Dear Mr. Drews:

In accordance with our recent conversation, I have enclosed the recent VOC test results from the Village's Well #3 raw water supply. This well is located at [redacted] Non-Responsive As can be seen from the test results, the level of TCE in the raw water has ranged from a 14 in July of 2004 to a low of 9.3 in February of 2006, yet a majority of the test results are around 10 over the time period covered.

I would request that you please consider these results in your decision making process when deciding upon Chrysler's request of case closure. In the Semi-Annual Sampling Report dated October 19, 2007 from Leggette, Brashears & Graham, Inc., the original result for TCE from location TW-1 on the Well #3 site was a 13 (please see enclosed). This was sampled on December 18, 1996. Therefore, over the period of over ten years, there has not been any significant drop in the level of TCE in this location. If you should have any questions or need further information, please contact the undersigned at 262-367-4880.

Sincerely,

Michael Einweck

Michael Einweck, PE
Director of Public Works

Enclosures

Cc: Wally Thiel, Village Administrator
Mike Gerszewski, DPW Operations Supervisor
Dave Felkner, DPW Utility Foreman
Connie Casper, Village Clerk

TABLE 3

BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

GROUND-WATER ANALYTICAL DATA
VOLATILE ORGANIC COMPOUNDS
MICROGRAMS PER LITER (ug/L)

SAMPLE LOCATION	DATE	SAMPLE DILUTION FACTOR	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	CIS 1,2-DICHLORO-ETHENE	TRANS 1,2-DICHLORO-ETHENE	TRICHLORO-ETHENE	TETRA-CHLORO-ETHENE	VINYL CHLORIDE	ACETONE	METHYLENE CHLORIDE
WI ENFORCEMENT STANDARD*			5	1,000	700	10,000	850	7	70	100	5	5	0.2	1,000	5
WI PREVENTIVE ACTION LIMIT			0.5	200	140	1,000	85	0.7	7	20	0.5	0.5	0.02	200	0.5
PZ-23I	15-Feb-07	1.0	< 0.5	< 0.7	< 0.8	< 0.8	< 1	< 0.8	< 0.8	< 0.8	9	< 0.8	< 1	< 6	< 2
PZ-23I	6-Jun-07	1.0	< 0.5	< 0.7	< 0.8	< 0.8	< 1	< 0.8	J 1	< 0.8	12	< 0.8	< 1	< 6	< 2
PZ-23I	6-Sep-07	1.0	< 0.5	< 0.7	< 0.8	< 0.8	< 1	< 0.8	< 0.8	< 0.8	11	< 0.8	< 1	< 6	< 2
RW-1	30-Jun-94	500	< 500	**47,000**	**7,700**	**38,000**	--		**95,000**	< 500	**52,000**		< 500	**13,000**	**7,400**
RW-1	2-Apr-95	3125.0	< 2,300	**23,000**	**12,000**	**47,000**	< 2,300	< 2,300	**67,000**	< 3,100	**J 2,200**	< 2,300	**J 2,700**	**B 14,000**	< 47,000
RW-1	4-May-95	1.0	**E 74**	**E 1,800**	**E 1,100**	*E 1,600*	4	**E 57**	**E 640**	*22*	**E 210**	*3*	**E 310**	< 3	**E 110**
RW-1 RE	4-May-95	5,000.0	< 3,800	**D 22,000**	**D 4,900**	**B,D 24,000**	< 3,800	< 3,800	**B,D 110,000**	< 5,000	< 3,800	< 3,800	< 5,000	< 15,000	**J,B,D 2,000**
HP	28-Feb-96	1.0	< 0.8	< 0.8	< 0.8	< 1.3	< 0.8	< 0.8	< 0.5	< 1	< 0.8	< 0.8	< 1	< 3	*J 0.6*
TW-1 (Village)	18-Dec-96	1.0	< 10	< 5	< 10	< 15	< 5	< 5	< 10	< 5	13	*J 2*	< 10	36	< 10
TW-4 (Village)	18-Dec-96	1.0	< 10	< 5	< 10	< 15	< 5	< 5	< 10	< 5	28	< 10	< 10	< 15	< 10
P-2 (Village)	18-Dec-96	1.0	< 10	< 5	< 10	< 15	< 5	< 5	< 10	< 5	14	*J 3*	< 10	< 15	< 10
P-2A (Village)	18-Dec-96	1.0	< 10	< 5	< 10	< 15	< 5	< 5	< 10	< 5	*J 3*	< 10	< 10	< 15	< 10
P-3 (Village)	18-Dec-96	1.0	< 10	< 5	< 10	< 15	< 5	< 5	< 10	< 5	18	< 10	< 10	< 15	< 10
P-3A (Village)	18-Dec-96	1.0	< 10	< 5	< 10	< 15	< 5	< 5	< 10	< 5	11	*J 2*	< 10	< 15	< 10
VP-2	29-Feb-96	1.0	< 0.8	< 0.8	< 0.8	< 1.3	< 0.8	< 0.8	1	< 1	< 0.8	< 0.8	< 1	< 3	J 0.4
VP-3 (PZ-18)S	1-Mar-96	1.0	< 0.8	< 0.8	< 0.8	< 1.3	< 0.8	< 0.8	J 0.4	< 1	< 0.8	< 0.8	< 1	< 3	J 0.4

NOTE: ONLY DETECTED COMPOUNDS ARE LISTED.
POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS WERE COLLECTED FOLLOWING DECEMBER 1995.
ug/L: MICROGRAMS PER LITER, EQUIVALENT TO PARTS PER BILLION.
* WISCONSIN ENFORCEMENT STANDARD (ES): HEALTH-BASED GROUND-WATER QUALITY STANDARD SET BY WIS. ADMIN. CODE NR 140.10
** 1,1,1-TRICHLOROETHANE AND CARBON TETRACHLORIDE WERE FOUND AT ESTIMATED CONCENTRATIONS OF 0.9 AND 1 UG/L, RESPECTIVELY. THE ES FOR THESE COMPOUNDS ARE 200 and 5 UG/L, RESPECTIVELY.
*** ANALYTE(S) NOT LISTED ON THIS TABLE WERE DETECTED IN THIS SAMPLE.
@: PZ-08 ALSO CONTAINS TRACE AMOUNTS OF BROMOFORM , BROMODICHLOROMETHANE AND DIBROMOCHLOROMETHANE AND
MW-08 CONTAINS TRACE AMOUNTS OF 1,1,2,2-TETRACHLOROETHANE AND DIBROMOCHLOROMETHANE.
DUP: DUPLICATE SAMPLE
(IEA): IEA LABORATORY INC.
RE : INDICATES THE SAMPLE WAS REANALYZED AT A DIFFERENT DILUTION RATIO.
B: ANALYTE WAS FOUND IN THE ASSOCIATED BLANK AS WELL AS THE SAMPLE.
D: COMPOUNDS IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR.
E: THE CONCENTRATION OF THE SPECIFIC COMPOUND EXCEEDED THE CALIBRATION RANGE OF THE INSTRUMENT FOR THAT PARTICULAR ANALYSIS.
J: ESTIMATED VALUE.
36: BOLD FONT INDICATES A DETECTED CONCENTRATION THAT EXCEEDS A WISCONSIN ENFORCEMENT STANDARD
5: ITALICIZED FONT INDICATES A DETECTED CONCENTRATION THAT EXCEEDS A WISCONSIN PREVENTIVE ACTION LIMIT

DNR Drinking Water Program
Southeast Region Headquarters
P.O. Box 12436
Milwaukee, WI 53212-0436

VOLATILE ORGANIC ANALYSES

FROM COMMERCIAL LABORATORIES

FORM: 3300-218
Rev: 10/02

Section I: To be completed by the Department of Natural Resources

System Name: HARTLAND WATERWORKS City: HARTLAND

PWS ID#: 26802050 County Code: 68-Waukesha Region Code: 2

Entry Point ID: 3 WI Unique Well No: BH398 DNR Contact: Thanintr Ratarasarn (262) 574-2134

System Type:
- X (MC) Municipal Community
- ___ (OC) OTM Community
- ___ (NN) Nontransient Noncommunity
- ___ (TN) Transient Noncommunity

Source Code:
- ___ W Well
- X E Entry Point
- ___ D Distribution

Sample Type:
- ___ D (SDWA) Compliance Sample
- ___ C (SDWA) Confirmation
- ___ W Raw Water Sample
- X I Investigation Sample

ollect sample between: 04 / 01 / 2004 **and** 06 / 30 / 2004 **Return results to DNR within 10 days of lab report date**

ection II: To be completed by SAMPLER

ample Collection Date: 06 / 23 / 2004 Time: 10 : 40 [X] a.m. [ ] p.m.

ample Point Address: Non-Responsive [redacted]

ample Point Descrip: WELL #3 RESERVOIR DEEP WELL

irst Initial and
ast Name of Sampler: D - FELKNER

tion III: To be completed by LABORATORY OFFICIAL. Report analytical results on back.

Check here if some or all of the parameters were analyzed by a subcontract lab.

NOTE: A separate form must be completed by each lab with data for only the parameters which that lab analyzed.

oratory Number: 999766900 Laboratory Name: Environmental Health Laboratories

e Sample eived: 06 / 24 / 2004 Time Sample Received: 10 : 05 Laboratory Sample ID: 1059466

ature of eiving Lab Official: for Crystal Rutherford Date Reported: 07 / 14 / 2004

dition of ple Upon Receipt: Iced / Wet

ion IV: To be completed by WATER SUPPLY SYSTEM OFFICIAL after analysis has been done.

tify that I have personally examined and am familiar with the information submitted on this document and all attachments and that, based y inquiry of those individuals responsible for obtaining the information, I believe that the information is true and accurate and complete. o certify that the values being submitted are the actual values found in the sample; no values have been modified or changed in any manner.

Signature: James Wil Title: Director of Public Works

Date Signed: 7/20/04

System Name: HARTLAND WATERWORKS
Site: WELL #3 RESERVOIR DEEP WELL

PWS ID#: 26802050
Report #: 1059465-71(66+70)

This page to be completed by WATER SUPPLY SYSTEM OFFICIAL or laboratory performing analysis.

Storet Code		Parameter	SDWA Method	MDL *	Results	MCL	Units
34030	X	Benzene	524.2	0.5	< 0.5	5	ug/L
81555		Bromobenzene				---	ug/L
32101		Bromodichloromethane				100	ug/L
32104		Bromoform				100	ug/L
34413		Bromomethane				---	ug/L
32102	X	Carbon Tetrachloride	524.2	0.5	< 0.5	5	ug/L
34311		Chloroethane				---	ug/L
32106		Chloroform				100	ug/L
34418		Chloromethane				---	ug/L
77275		2-Chlorotoluene (o-)				---	ug/L
77277		4-Chlorotoluene (p-)				---	ug/L
32105		Dibromochloromethane				100	ug/L
77596		Dibromomethane				---	ug/L
34566		1,3-Dichlorobenzene (m-)				---	ug/L
34536	X	1,2-Dichlorobenzene (o-)	524.2	0.5	< 0.5	600	ug/L
34571	X	1,4-Dichlorobenzene (p-)	524.2	0.5	< 0.5	75	ug/L
34668		Dichlorodifluoromethane				---	ug/L
34496		1,1 Dichloroethane				---	ug/L
34531	X	1,2 Dichloroethane	524.2	0.5	< 0.5	5	ug/L
34501	X	1,1 Dichloroethylene	524.2	0.5	< 0.5	7	ug/L
77093	X	1,2 Dichloroethylene, cis	524.2	0.5	< 0.5	70	ug/L
34546	X	1,2 Dichloroethylene, trans	524.2	0.5	< 0.5	100	ug/L
34423	X	Dichloromethane	524.2	0.5	< 0.5	5	ug/L
34541	X	1,2 Dichloropropane	524.2	0.5	< 0.5	5	ug/L
77173		1,3 Dichloropropane				---	ug/L
77170		2,2 Dichloropropane				---	ug/L
77168		1,1 Dichloropropene				---	ug/L
34561		1,3 Dichloropropene				---	ug/L
34371	X	Ethylbenzene	524.2	0.5	< 0.5	700	ug/L
71880		Formaldehyde				---	ug/L
34391		Hexachlorobutadiene				---	ug/L
77223		Isopropylbenzene				---	ug/L
77356		4-Isopropyltoluene				---	ug/L
77885		Methanol				---	ug/L
78032		Methyl-t-butyl ether				---	ug/L
34301	X	Chlorobenzene	524.2	0.5	< 0.5	100	ug/L
34696		Naphthalene				---	ug/L
77128	X	Styrene	524.2	0.5	< 0.5	100	ug/L
77562		1,1,1,2 - Tetrachloroethane				---	ug/L
34516		1,1,2,2 - Tetrachloroethane				---	ug/L
34475	X	Tetrachloroethylene	524.2	0.5	< 0.5	5	ug/L
34010	X	Toluene	524.2	0.5	< 0.5	1000	ug/L
34551	X	1,2,4-Trichlorobenzene	524.2	0.5	< 0.5	70	ug/L
34506	X	1,1,1 - Trichloroethane	524.2	0.5	< 0.5	200	ug/L
34511	X	1,1,2 - Trichloroethane	524.2	0.5	< 0.5	5	ug/L
39180	X	Trichloroethylene	524.2	0.5	**12**	5	ug/L
34488		Trichlorofluoromethane				---	ug/L
77443		1,2,3 - Trichloropropane				---	ug/L
81611		Trichlorotrifluoroethane				---	ug/L
77222		1,2,4-Trimethylbenzene				---	ug/L
77226		1,3,5-Trimethylbenzene				---	ug/L
39175	X	Vinyl Chloride	524.2	0.2	< 0.2	0.2	ug/L
79724	X	Xylenes, Total	524.2	0.5	< 0.5	10000	ug/L

EHL has demonstrated it can achieve these report limits in reagent water, but cannot document them in all sample matrices.

Ref. 21

DEPARTMENT OF
NATURAL RESOURCES
SED
1994 APR 28 AM 10: 07

INTERIM RESPONSE ACTION REPORT BARK RIVER PROPERTIES SITE HARTLAND, WISCONSIN

Prepared For

Chrysler Corporation

April 1994

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water Consultants
1210 West County Road E, Suite 700
St. Paul, Minnesota 55112

INTERIM RESPONSE ACTION REPORT BARK RIVER PROPERTIES SITE HARTLAND, WISCONSIN

1.0 INTRODUCTION

Leggette, Brashears & Graham, Inc. (LBG) was retained by Chrysler Corporation (Chrysler) to conduct interim response activities at the Bark River Properties site in Hartland, Wisconsin, as proposed in LBG's "Investigation and Interim Response Work Plan, Bark River Properties Site, Hartland, Wisconsin," dated August 1993 (Work Plan). On November 22, 1993, the Wisconsin Department of Natural Resources (WDNR) issued a conditional approval letter authorizing the interim response action (Task 3 of the Work Plan). On March 11, 1994 the WDNR issued verbal approval to install a large diameter recovery sump. This status report summarizes the results of the interim response action, which included excavation and removal of drums and soil, waste determination of drums and soil, waste management activities, and installation of a recovery sump. The LBG Project Manager and principal author of this status report is Mr. Kenneth D. Vogel, (612) 490-1405. The Chrysler contacts are Mr. Curt Chapman, (810) 370-8619, and Mr. Michael Grice, (810) 370-8238.

2.0 SITE BACKGROUND

2.1 Site Location

The site is located at the northwest corner of Cardinal Lane and Cottonwood Avenue, in the NW¼ of the SE¼ of Section 3, Township 7 North, Range 18 East, Village of Hartland, Waukesha County, Wisconsin (figure 1). The subject property is identified as Lot 2 of CSM No. 6568. The current property owner is Bark River Properties (BRP). The BRP contact is Mr. Richard R. Bertrand (414) 367-3661.

The site itself is undeveloped, but is situated in an industrial/commercial development located approximately 300 feet west and 490 feet north of the south-flowing Bark River (figure 2). The subject site is a gently sloping, 1.14 acre grass-covered field (figure 3). A portion of the site is enclosed by a 6-foot high chain-link fence with two access gates.

2.2 Previous Site Documentation

The results and findings of site documentation and field investigation activities (Tasks 1 and 2 of the Work Plan) are documented in the LBG report titled "Interim Field Investigation Status Report, Bark River Properties Site, Hartland, Wisconsin," dated November 30, 1993 (LBG, 1993). The report includes a summary of the site history, regional geologic and hydrogeologic setting, results of a computerized database search and a well search, LBG's health and safety plan, field methodologies and results of an electromagnetic induction survey and soil-vapor survey, soil sampling results, a discussion of halogenated and non-halogenated volatile organics, a contaminant migration pathway and receptor assessment for the site, and summary and conclusions.

3.0 INTERIM RESPONSE ACTION

3.1 Objective

The objective of the interim response action was to mitigate potential sources of subsurface contamination associated with buried drums reported to be present at the site. The interim field investigation (LBG, 1993) identified several areas as possible locations of buried metallic objects or materials. The interim response action was conducted in order to excavate and remove any buried drums, if any, from those areas.

DEPARTMENT OF
NATURAL RESOURCES
SED

1994 SEP 20 AM 9:30

Ref. 22

SITE INVESTIGATION REPORT
BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

Prepared For

Chrysler Corporation

September 1994

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water Consultants
1210 West County Road E, Suite 700
St. Paul, Minnesota 55112

SITE INVESTIGATION REPORT
BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

1.0 INTRODUCTION

Leggette, Brashears & Graham, Inc. (LBG) was retained by Chrysler Corporation (Chrysler) to conduct site investigation activities at the Bark River Properties site in Hartland, Wisconsin, as proposed in LBG's "Interim Response Action Report, Bark River Properties Site, Hartland, Wisconsin", dated April 1994. On April 28, 1994, the Wisconsin Department of Natural Resources (WDNR) issued verbal approval authorizing the proposed site investigation activities. This report summarizes the results of the on-site investigation activities, which included advancement of soil borings, installation of monitoring wells and piezometers, well development, and collection of soil and ground-water samples. The LBG Project Manager and principal author of this report is Mr. Kenneth D. Vogel, (612) 490-1405. The Chrysler contacts are Mr. Curt Chapman, (810) 370-8619, and Mr. Michael Grice, (810) 370-8238.

2.0 SITE BACKGROUND

2.1 Site Location

The Bark River Properties site is located at the northwest corner of Cardinal Lane and Cottonwood Avenue, in the NW¼ of the SE¼ of Section 3, Township 7 North, Range 18 East, Village of Hartland, Waukesha County, Wisconsin (figure 1). The subject property is identified as Lot 2 of CSM No. 6568. The current property owner is Bark River Properties (BRP). The BRP contact is Mr. Richard R. Bertrand (414) 367-3661. The site itself is undeveloped, but is situated in an industrial/commercial development located approximately 300 feet west and 490 feet north of the south-flowing Bark River (figure 2). The subject site is a 1.14-acre, grass

covered field with a slight southward slope (figure 3). A portion of the site is enclosed by a 6-foot high, chain-link fence with two access gates.

2.2 Previous Site Characterization

The results and findings of previous site characterization and field investigation activities are documented in the LBG report "Interim Field Investigation Status Report, Bark River Properties Site, Hartland, Wisconsin", dated November 30, 1993 (LBG, 1993). The report includes a summary of the site history, regional geologic and hydrogeologic setting, results of a computerized database search and a well search, LBG's Health and Safety Plan, field methodologies and results of an electromagnetic induction survey and soil-vapor survey, soil sampling results, a discussion of halogenated and non-halogenated volatile organics, a contaminant migration pathway and receptor assessment for the site, and summary and conclusions.

The results and findings of interim response activities are documented in the LBG report titled "Interim Response Action Report, Bark River Properties Site, Hartland, Wisconsin", dated April 1994. The report includes a summary of soil and drum excavation, waste classification and management, a discussion of results, and recommendations for additional site investigation activities.

3.0 SITE INVESTIGATION

3.1 Objective

The objectives of this site investigation phase included: documentation of water-bearing zone(s); determination of ground-water flow direction(s); determination of the degree and extent of any impacted ground water and soils at the site; determination of aquifer characteristics, and collection of data pertinent to the evaluation of remedial alternatives, if required. In order to accomplish these stated objectives, LBG recommended the advancement of test borings, collection and

APPENDIX B

Waste Registry Screening Worksheet and Photographs

State of Wisconsin
Department of Natural Resources

Waste Registry Screening Worksheet

Form 4400-220 (12/05)

Instructions: Information sources that can be used to fill out this worksheet include: BRRTS, SHWIMS, R&R files, WA files, regional geologic information resources, Waste Staff, County Solid Waste staff (if there is one for the county) and the EPA web site for CERCLIS. Other possible resources may include: city/town files, county files, aerial photos, readily available Sanborn Insurance maps and interviews with former employees or neighbors.

All comments should be referenced by section number in the Comments section, page 5.

I. Site Name

Site Name	County	Region
Hartland Well #3	Waukesha	SE

Location: Non-Responsive [redacted]

Is the site known by another name(s)? ☐ Yes ☑ No ☐ Unknown

☐ City ☐ Town ☑ Village of Hartland — State: WI — If yes, Name:

II. Archiving Criteria

Check the archiving criteria that apply to the site, and provide an explanation for your choice on the comment page, Section XIII.

- ☐ 1. No documented waste disposal and no evidence on-site
- ☐ 2. Documented waste removal and no evidence on-site
- ☐ 3. Waste type is no longer regulated and is not a threat to public health, safety, welfare or the environment. [See NR500.08(1)&(2)]
- ☐ 4. Almost no site information and unable to locate site
- ☐ 5. Duplicate listing - Complete only Section VI. Do not complete remainder of worksheet

The site will be identified on Waste Registry Spreadsheet as "archived".

III. Recommendations for Follow-Up Work - - Summarize online and write details in comments, Section XIII.

1. Remediation and Redevelopment Program	☐ No	☑ Yes	Determine source of groundwater contamination.
2. Waste Management Program	☑ No	☐ Yes	
3. Drinking and Groundwater Program (no variance for well)	☑ No	☐ Yes	

IV. Legal Description of Site

Attach an air photo with site location and limits of fill/waste disposal area based on available information.

Locational Information: Other Sources (optional - add polygon to comment page, Section XIII)

WI Transverse Mercator 83/91Coordinates		¼ / ¼	¼	Section	Township	Range E / W
X Coordinates	Y Coordinates					

Non-Responsive [redacted]

V. Was

DNR FID No. (9 digits)	Solid Waste License ID No. (4 digits)	BRRTS ID No. (2 digit ERP program-2 digit county-6 digit site specific)

VI. Waste Registry Tracking Decision

Note: All sites, except archived sites, must be in SHWIMS or added to SHWIMS to be tracked as a waste disposal site.

SHWIMS: _____

- ☐ Site is in SHWIMS as a waste disposal site (070-079)
- ☐ Update information in SHWIMS, attach printout of data dump report or screening worksheet with changes highlighted for Waste Management Program Assistant
- ☐ Add site to SHWIMS as waste disposal site

BRRTS: _____

- ☐ Site is in BRRTS
  - ☐ Associated with a release related to this waste disposal site
  - ☐ Not associated with this waste disposal site
- ☐ Add site to BRRTS, following regional procedure

If BRRTS update is needed follow regional procedure.

Archive: _____ ☐ Archive site (see Section II)

Print Name of Screener	Date
Mark Drews	07/09/2009

Name of File Reviewer, if different than screener

VII. Site Background Information

Site Owner/Operator Name

Village of Hartland

Street or Route	Telephone Number	City	State	ZIP Code
210 Cottonwood Ave.	(262) 367-2714	Hartland	WI	53029

Present Property Owner Name

Street or Route	Telephone Number	City	State	ZIP Code

Potential Responsible Party

Street or Route	Telephone Number	City	State	ZIP Code

VIII. Type of Site: Current and Historic (check all that apply)

A. ☐ Landfill

☐ Lined ☐ Unlined ☐ Unknown

Is there leachate collection and removal? ☐ Yes ☐ No

Does the landfill have a groundwater monitoring plan? ☐ Yes ☐ No ☐ Unknown Date of Plan: _____ (year only)

Have groundwater monitoring wells been installed? ☐ Yes ☐ No ☐ Unknown

Was a cover installed?

☐ Yes: ☐ Soil ☐ Clay ☐ Membrane ☐ Composite

☐ No

B. ☐ One-time Disposal

C. ☑ Other (spill, lagoon, pit -- add to comments page, section XIII.)

IX. Waste Information & Geologic Environment

A. Known or Suspected Sources/Wastes. Check all that apply.

- ☐ Abandoned containers
- ☐ Above ground pipeline or tank
- ☐ Animal carcasses
- ☐ Asbestos disposal
- ☐ Buried drums
- ☐ Burning of materials
- ☐ Demolition/construction waste
- ☐ Fly ash
- ☐ Foundry sand
- ☐ Industrial accident
- ☐ Known or suspected hazardous materials
- ☐ Municipal waste
- ☐ Paper mill sludge
- ☐ Surface impoundment/lagoons
- ☐ Surface spills
- ☐ Transformer
- ☐ Trees/brush
- ☐ Underground pipeline or tank
- ☐ Exempted fill [NR 500.08(1) and (2)]
- ☑ Unknown
- ☐ Other: _____

B. Soil Type: Estimate distances or determinations based on regional or site specific information.

☐ Regional ☑ Site specific

Clay, silt or other fine grained soils present? (lacustrine, tills, etc.) ☑ Yes ☐ No

At surface? (0 - 2') ☑ Yes ☐ No At depth? (> 2') ☑ Yes ☐ No 25 feet

Sand & gravel, coarse grained soils present? ☑ Yes ☐ No

At surface? (0 - 2') ☑ Yes ☐ No At depth? (> 2') ☑ Yes ☐ No 80 feet

C. Depth to Groundwater: ☐ Regional ☑ Site specific 30 feet

D. Direction of Groundwater Flow: ☐ Regional ☑ Site specific SE direction

E. Depth to Bedrock: ☑ Regional ☐ Site specific 250 feet

F. Bedrock Type: ☑ Regional ☐ Site specific ☐ Sandstone ☑ Limestone/Dolomite ☐ Metamorphic/Igneous

X. Site Visit Observations and Receptor Information

A. Documentation of Site Visit

A site visit must be conducted to complete the site screening. If you do not have access to enter the property, the site visit should be conducted from the perimeter of the site with the use of binoculars. The intent of the site visit is to determine general site conditions/on-site activities and adjacent land use encroachment issues.

On-site inspection conducted? ☑ Yes ☐ No

General site conditions: Document any observed releases and note whether you were able to walk the site. Some examples of things to be aware of include leachate seeps, or evidence of seeps such as stained soil/vegetation; stressed vegetation as a sign of gas migration to the surface, or of leachate seeps; quality and coverage of vegetation on the cap; odors which may indicate gas migration to the atmosphere; erosion of the cap; maintenance of positive drainage over the capped area; visual desiccation cracks in the cap. **Record comments on the comment page, Section XIII.**

B. **Potential Groundwater Receptors.** Estimate (1 mile = 5,280')

Describe receptors on comment page, Section XIII. Identify receptors within 1200' and indicate distance and direction to receptor (examples of receptors: drinking water supply wells, ponds, lakes, rivers, wetlands, etc.).

C. Site Visit Observations. Based on the site visit did you visually observe. . .

1. A release to a surface water body?	☐ Yes	☑ No
2. A leachate seep?	☐ Yes	☑ No
3. A release to soils?	☐ Yes	☑ No
4. Any odors of concern?	☐ Yes	☑ No
5. Encroachment of residences, water supplies?	☐ Yes	☑ No
6. Any erosion of the cap?	☐ Yes	☑ No
7. Any exposed waste?	☐ Yes	☑ No
8. Poor drainage (ponding) over waste mass?	☐ Yes	☑ No
9. Monitoring wells need maintenance or are damaged?	☑ Yes	☐ No
10. Is disposal area fenced to restrict access?	☐ Yes	☑ No

Please attach site photographs, regular or digital prints, to the worksheet (required).

Name(s) of Person(s) Conducting Site Visit: Mark Drews

Date of Site Visit: 07/08/2009

XI. Screening Decision

A. Is there analytical data for the media of concern?

1. Groundwater: ☑ Yes ☐ No ☐ N/A
2. Soil: ☐ Yes ☑ No ☐ N/A
3. Surface water/sediment: ☐ Yes ☑ No ☐ N/A
4. Air: ☐ Yes ☑ No ☐ N/A

B. Based on analytical data from A, is there a documented release to the environment?

☑ Yes: ☑ Groundwater ☐ Soil ☐ Surface water/sediment ☐ Air
☐ No

C. Based on known or suspected sources/wastes, their physical characteristics, containment & geologic environment, do you suspect there has been or will be a release to the environment?

☑ Yes: ☑ Groundwater ☑ Soil ☐ Surface water/sediment ☐ Air
☐ No

D. Is there a need for immediate action? (Is there a known or high potential for an imminent threat to human health?)

☐ Yes: Should state/local health departments be contacted? ☐ Yes Date: _____ ☐ No
☑ No

E. Based on known or suspected sources/wastes, their physical characteristics, containment & geologic environment at this site, is initial or further sampling recommended? Describe the recommendations on comment page, Section XIII.

☑ Yes: ☑ Initial ☐ Groundwater ☑ Soil ☐ Surface water ☐ Air (landfill gas)
☑ Further ☑ Groundwater ☐ Soil ☐ Surface water ☐ Air (landfill gas)
☐ No
☐ Continue current monitoring schedule as per Waste Management Program

XII. Sampling Explanation & Other Work Recommended

A. To document your decision for future project managers/staff, briefly explain the rationale for the overall site decision and sampling recommendation. If well sampling is recommended, please include the receptor information including well(s) location/address, owner's name, mailing address, and phone number to facilitate sampling. Please add information to comment page, Section XIII.

B. If you believe additional work is needed or not needed (addressing leachate problems, exposed waste, inadequate cover, etc.) please add information to comment page, Section XIII.

XIII. Comments

Site is the location of municipal well #3 for the Village of Hartland. Well contains trichloroethylene above drinking water standards based on previous sampling. Refer to attatched pictures.

Well #3 Facility, Southern Boundry

Well #3 Facility

07/08/2009

Well #3 Facility, Northern Boundry

APPENDIX C

Bark River Properties Site – Shallow and Deep Ground-Water Elevation Contour Maps, September 2007

Non-Responsive

[redacted]

Non-Responsive

[redacted]

APPENDIX D

Hartland Well #3 4-Mile Radius Map

Population Radii Map
Hartland Well #3

[redacted] Non-Responsive

Radii(mi)	Population*
0 - 0.25	0
0.25 - 0.5	261
0.5 - 1.0	3,144
1.0 - 2.0	8,407
2.0 - 3.0	6,886
3.0 - 4.0	12,835
Total	31,833

* Population counts based on 2000 U.S. Census data adjusted to 2008 estimated change for Waukesha County

N
W E
S

0 0.5 1 2 Miles

Legend

- SourcePoint
- Municipal Boundaries
- Census Tracts

Martin, James T
September 10, 2009
Projection: NAD_1983_HARN_Transverse_Mercator
Source: 2000 Southeastern Wisconsin Regional Planning Commission
V:\AirAndWaste\RR\GIS\Hartland Project\HartlandBuffer.mxd

APPENDIX E

Hartland Well #3 Well Construction Log and Monitoring Well Construction, Soil Boring Logs and Development Forms

RSITY OF WISCONSIN GEOLOGICAL & NATURAL HISTORY SURVEY
University Avenue, Madison, Wisconsin 53706

Sample Nos. All Retained

County: Waukesha

R. 18E

Non-Responsive

[redacted]

Sec. 3

Quad. Hartland 7½'

l name Hartland Village Well #3

Completed... 10/18/73
Field check.
Altitude..., 931' ETM
Use..... Municipal
Static w.l.. 33'
Spec. cap... 33 GPM/ft.

or.... Village of Hartland
ress.. 209 Cottonwood Avenue
Hartland, WI 53029
ller.. Miller Well and Pump Company
inner. Ruekert & Mielke, Inc.
Waukesha, Wisconsin

Drill Hole					Casing & Liner Pipe or Curbing							
from	to	Dia.	from	to	Dia.	Wgt.& Kind	from	to	Dia.	Wgt.& Kind	from	to
0	135'				36"	New Steel 500 wall welded	0	75'	16"	Stainless steel screen .050 slot	95'	135'
					16"	New Steel ASS Gr.B .375 wall welded	+2'	95'				

out: Kind	from	to
Neat Cement	0	75'

mples from 0 to 125' Rec'd: 11/13/73 Studied by: Mark Ver Hoove Issued: 7/2/82

rmations: Drift.

marks: Well tested 12 hours at 1500 GPM with drawdown of 45 feet. Driller reports total well depth of 135'.
Well drilled by reverse rotary method. Hicap Perm Well No. 88131

OF WELL:

Depths	Graphic Section	Rock Type	Color	Grain Size Mode	Grain Size Range	Miscellaneous Characteristics
0-25		NO SAMPLE. Driller reports clay, sand, and boulders.				
25-30		Gravel	Mixed	Mpsb	Gran/VLpsb	Dolomite, granite, trap, chert. Trace sand.
30-35		"	"	SP/MP	Gran/Lpsb	Dol, granite, trap, chert. Trace sand, dolomitic clay.
35-40		"	"	"	Gran/VLpsb	Same.
40-45		Sand	Med pl bn	Fn/M	Vfn/VC	Much dol clay. Ltl gravel. Trace silt.
45-50		"	Med bn yl	M	"	Little gravel, silt, siliceous clay.
50-55		"	Lt yl bn	"	"	Little silt, siliceous clay.
55-60		"	Med ltylbn	M/C	"	Little silt.
60-65		Sand	Med ltbn gy	M/C	Vfn/VC	Trace silt.
65-70		"	"	C	"	Much dolomitic clay. Little gravel, silt.
70-75		"	Mixed	"	"	Trace silt.
75-80		"	Med ltylbn	"	"	Much dolomitic clay. Little gravel. Trace silt.
80-85		"	Med v plbn	"	"	Much gravel. Trace silt.
85-90		"	"	"	"	Same.
90-95		"	"	"	"	Little gravel. Trace silt.
95-100		"	"	"	"	Same.
100-105		Gravel	Mixed	S psb	Gran/VL psb	Dolomite, chert, grnt, qtz, rhyol, trp. Ltl sand. Tr silic clay.
105-110		Sand	Med v pl bn	C	Vfn/VC	Little gravel. Trace silt.
110-115		"	"	"	"	Same.
115-120		"	"	"	"	Trace gravel, silt.
120-125		Gravel	Mixed	SP	Gran/L psb	Dolomite, trap, granite, chert. Little sand. Trace silt.
		END OF LOG				
		DUPLICATE SAMPLE				
55-60		Clay	Gry brown	--	--	Dolomitic. Much silt. Little sand. Trace gravel.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Hartland Well #3		MW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: BJ Last Name: Firm: Giles Engineering	11/03/2009 (m m d d y y y y)	11/03/2009 (m m d d y y y y)	Hollow Stem Auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-5	_____ Feet MSL	_____ Feet MSL	8.3 inches

Non-Responsive

_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____

Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
MW-5	Waukesha	68	Hartland

Sample: Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Grass and Topsoil										
				Blind Drill										
				Water Table @ 27' bgs.										
			35											
				Well set @ 35' bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Mark Drews	Wisconsin Dept. of Natural Resources

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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Facility/Project Name: Hartland Well #3	License/Permit/Monitoring Number	Boring Number: MW-6	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: BJ Last Name: — Firm: Giles Engineering	Date Drilling Started: 11/04/2009 (mm dd yyyy)	Date Drilling Completed: 11/04/2009 (mm dd yyyy)	Drilling Method: Hollow Stem Auger
WI Unique Well No. ___	DNR Well ID No. ___	Well Name: MW-6	Final Static Water Level: ___ Feet MSL
Surface Elevation: 925.40 Feet MSL	Borehole Diameter: 8.3 inches		
[redacted]	Lat ___ ° ' " Long ___ ° ' "	Local Grid Location: ___ Feet ☐ N ☐ S ___ Feet ☐ E ☐ W	
___ 1/4 of ___ 1/4 of Section ___, T ___ N, R ___			
Facility ID: MW-6	County: Waukesha	County Code: 68	Civil Town/City/ or Village: Hartland

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Grass and Topsoil										
SS6	14	1 3 4 15		Brown silt with fine gravel.				0.0		Dry				
	20	NA	2	Lt. Brown medium to coarse sand with medium to coarse angular gravel. No odor.				0.0		Dry				
	12	17 19 22 26	4	Same as above.				0.0		Dry				
	10	33 22 50/5"	6	Same as above, with cobbles.				0.0		Dry				
	14	38 40 42 40	8	Same as above.				0.0		Dry				
			10	No Recovery				0.0		Dry				
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Mark Drew — Firm: Wisconsin Department of Natural Resources

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Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
	10	50 37 19 15	12	Fine to medium sand, Lt. Brown, with fine to coarse gravel.				0.0		Dry				
	8	2 3 13 13	14	Lt. Brown, fine sand with fine to coarse angular gravel. No odor.				0.0		Dry				
			16	No recovery.										
	7	15 12 8 9	18	Same as 14-16'				0.0		Dry				
	4	9 10 20 13	20	Lt. Brown, fine to medium sand with medium to coarse gravel. No odor.				0.0		Dry				
	12	29 35 33 38	22	Same as above.				0.0		Dry				
	11	37 35 13 13	24	Same as above. Wet at 26' bgs.				0.0		Dry				
	14	9 7 5 5	26	Same as above.				0.0		Wet				
		13 9 9 7	28	No recovery.										
	13	16 18 23 29	30	Lt. Brown, fine to coarse gravel, angular, no odor.				0.0		Wet				
			32	EOB. 33' Well set						Wet				

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Facility/Project Name: Hartland Well #3	License/Permit/Monitoring Number	Boring Number: MW-7	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: BJ Last Name: Firm: Giles Engineering	Date Drilling Started: 11/04/2009	Date Drilling Completed: 11/04/2009	Drilling Method: Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name: MW-7	Final Static Water Level: ____ Feet MSL
Surface Elevation: 930.21 Feet MSL	Borehole Diameter: 8.3 inches	Non-Responsive [redacted]	Lat ° ' " Long ° ' "
Local Grid Location: ☐ N ____ Feet ☐ S ☐ E ____ Feet ☐ W	____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____		
Facility ID: MW-7	County: Waukesha	County Code: 68	Civil Town/City/ or Village: Hartland

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	8	2 2 2 2	2	Dark Brown silt with fine gravel, no odor				0.0		Dry				
	10	3 4 3 6	4	Same as above.				0.0		Dry				
	14	4 6 9 9	6	Brown medium to coarse sand with coarse gravel				0.0		Dry				
	11	13 18 27 10	8	Fine to coarse gravel with medium sand, Lt. Brown				0.0		Dry				
	6	20 14 17 19	10	Same as above with quartzite cobbles to 2" dia. from cuttings				0.0		Dry				
	12	8 17 23 21	12	Lt. Brown fine to coarse sand with medium to coarse gravel. No odor.				0.0		Dry				
	18	25 15 20 20	14	Same as above.				0.0		Dry				

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Signature: Mark Green Firm: Wisconsin Dept. of Natural Resources

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Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			16											
	20	26 40 50 50		Same as above with cobbles to 2" dia.				0.0		Dry				
	8	23 65 43 48	18	Lt. Brown fine to medium sand and medium to coarse angular gravel with cobbles.				0.0		Dry				
	10	17 9 9 6	20	Brown fine sand.				0.0		Dry				
			22	No recovery.						Dry				
	14	8 10 10 12	24	Brown fine sand with fine to medium gravel. Moist				0.0		Moist				
	16	8 12 14 14	26	Same as above.				0.0		Moist				
	14	11 11 13 5	28	Same as above.				0.0		Moist				
	13	13 13 8 6	30	Same as above, wet at 30' bgs.				0.0		Wet				
	18	8 8 12 12	32	Brown fine to medium sand with fine gravel.				0.0		Wet				
	22	711 106	34	Same as above. Well set at 36' bgs.				0.0		Wet				

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Hartland Well #3		PZ-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: BJ Last Name: Firm: Giles Engineering	11/02/2009 (m m d d y y y y)	11/02/2009 (m m d d y y y y)	Hollow Stem Auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _	PZ-5	_____ Feet MSL	926.57 Feet MSL	8.3 inches

Non-Responsive [redacted]

Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "

Local Grid Location ☐ N ☐ E ___ Feet ☐ S ___ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Hartland

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
SS-1	11	1 5 10 12	2	Grass and black silt topsoil coarse sand and coarse angular gravel.				0.0		Dry				
	0	13 20 23 20	4	No recovery.										
	8	10 10 10 10	6	Lt. Brown fine to medium sand with coarse gravel, no odor				0.1		Dry				
	11	12 10 9 9	8	Lt. Brown fine to medium sand with coarse gravel, up to 2" dia.										
	0	14 12 9 3	10	No recovery				0.0		Dry				
		7 7 5 8	12	Same as 6-8' bgs.				0.0		Dry				
	12	23 18 18 18	14	Brown fine to medium sand with medium to coarse gravel.				0.0		Dry				

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Signature	Firm
Mark Drew	Wisconsin Dept. of Natural Resources

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Sample Number and Type	Sample Length Att. & Recovered (in.)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
		17 14 16 12	2	No recovery										
	11	23 20 16 19	6					0.0		Dry				
	16	17 21 32 30	8	Same as above.				0.0		Dry				
		13 16 22 25	20	No recovery.										
	6	9 9 5 2	22	Same as 16-18' depth.				0.0		Dry				
	6	3 23 30 9	24	Same as above.				0.0		Dry				
	12	14 18 20 19	26	Lt. Brown, med to coarse sand with med. to coarse gravel with 2" cobbles Wet				0.0		Wet				
	12	14 14 15 14	28	Same as above.				0.0		Wet				
	14	13 14 10 9	30	Same as above.				0.0		Wet				
	11	4 5 5 6	32	Medium to coarse sand with medium to coarse gravel, angular with cobbles.				0.0		Wet				
	6	6 6 9 9	34 36	Same as above.				0.0		Wet				

Sample Number and Type	Length Att. & Recovered (in.)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	4	13 6 5 3	36	Same as above.				0.0		Wet				
		3 3 5 9	38	No recovery				0.0		Wet				
	4	3 3 4 5	40	Brown medium to coarse sand and medium gravel.				0.0		Wet				
	8	9 9 11 13	42	Same as above with coarse gravel.				0.0		Wet				
	8	4 10 8 12	44	Brown silty sand with fine to coarse gravel.				0.0		Wet				
	10	3 3 12 20	46	Same as above				0.0		Wet				
	6	5 7 8 10	48					0.0		Wet				
	14	4 5 6 8	50	Brown fine to medium sand with fine to coarse gravel.				0.0		Wet				
	18	11 7 12 13	52	Brown fine to medium sand with trace of medium gravel. No odor.				0.0		Wet				
	20	7 7 9 11	54	Brown fine to medium sand.				0.0		Wet				
			56											

Sample: Number and Type	Sample: Length Att. & Recovered (in.)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
	14	8 10 7 10	56	Same as above.				0.0		Wet				
	24	18 23 25 35	58					0.0		Wet				
	23	6 8 12 18	60					0.0		Wet				
	22	7 9 13 7	62					0.0		Wet				
	18	7 10 12 12	64					0.0		Wet				
	20	8 12 15 14	66					0.0		Wet				
	18	12 12 7 10	68	Brown medium to coarse sand and medium to coarse gravel.				0.0		Wet				
	12	8 8 12 7	70	Brown fine to medium sand with fine to medium gravel.				0.0		Wet				
	12	16 14 11 11	72	Same as above				0.0		Wet				
	16	8 10 12 12	74	EOB 74' Well set.				0.0		Wet				
			76											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Hartland Well #3		PZ-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: BJ Last Name: Firm: Giles Engineering	11/05/2009 (m m d d y y y y)	11/05/2009 (m m d d y y y y)	Hollow Stem Auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
U		PZ-6	_____ Feet MSL	925.42 Feet MSL	8.3 inches

[redacted]

Lat ___ ° ___ ' ___ "	Local Grid Location
Long ___ ° ___ ' ___ "	☐ N ☐ E ___ Feet ☐ S ___ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Hartland

Sample: Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind drill to 80' bgs.										
				Well set at 80' bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Mark Drew	Wisconsin Dept. of Natural Resources

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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: Hartland Well #3	License/Permit/Monitoring Number	Boring Number: PZ-7	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: BJ Last Name: — Firm: Giles Engineering	Date Drilling Started: 11/06/2009 (m m d d y y y y)	Date Drilling Completed: 11/06/2009 (m m d d y y y y)	Drilling Method: Hollow Stem Auger
WI Unique Well No. U — DNR Well ID No.	Well Name: PZ-7	Final Static Water Level: ____ Feet MSL	Surface Elevation: 930.27 Feet MSL	Borehole Diameter: 8.3 inches
[redacted]		Lat ° ' " Long ° ' "	Local Grid Location: ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W
Facility ID	County: Waukesha	County Code: 68	Civil Town/City/ or Village: Hartland

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind drill to 80' bgs.										
				Well set at 80' bgs.										

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Signature: Mark Drew — Firm: Wisconsin Dept. of Natural Resources

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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment [X] Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Progress Drive, Hartland, WI	Local Grid Location of Well ☐ N. ☐ S. _____ ft. ☐ E. ☐ W. _____ ft.	Well Name PZ-5
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No. VW325 / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11 / 3 / 2009 (m m d d y y y y)
Type of Well Well Code 12 / pz	Section Location of Waste/Source Non-Responsive [redacted]	Well Installed By: Name (first, last) and Firm Beuford Jones
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Giles Engineering Associates, Inc.

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 926.21 ft. MSL

C. Land surface elevation 926.57 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger [X] 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None [X] 99

16. Drilling additives used? ☐ Yes [X] No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 925.2 ft. MSL or _____ ft.

F. Fine sand, top 854.2 ft. MSL or _____ ft.

G. Filter pack, top 853.2 ft. MSL or _____ ft.

H. Screen joint, top 852.2 ft. MSL or _____ ft.

I. Well bottom 847.2 ft. MSL or _____ ft.

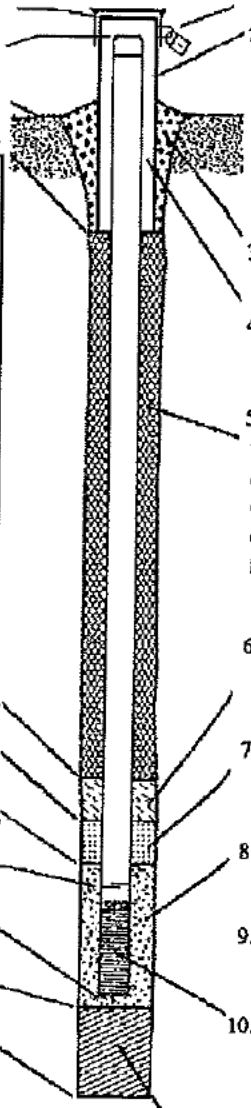
J. Filter pack, bottom 847.2 ft. MSL or _____ ft.

K. Borehole, bottom 847.2 ft. MSL or _____ ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2 in.



1. Cap and lock? [X] Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel [X] 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete [X] 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite [X] 30
Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite [X] 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity [X] 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. [X] 3/8 in. ☐ 1/2 in. Bentonite chips [X] 32
c. 24 _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #15
b. Volume added 1 _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 3 _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 [X] 24
Other ☐

10. Screen material: PVC _____
a. Screen type: Factory cut [X] 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Timco
c. Slot size: 0.01 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None [X] 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
[signature]	Giles Engineering Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment [X] Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Progress Drive, Hartland, WI	Local Grid Location of Well ☐ N. ☐ S. _____ ft. ☐ E. ☐ W. _____ ft.	Well Name PZ-6
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No. VW327 / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E, S/C/N	Date Well Installed 11 / 4 / 2009 (m m d d y y y y)
Type of Well Well Code 12 / pz	Non-Responsive [redacted]	Well Installed By: Name (first, last) and Firm Beuford Jones Giles Engineering Associates, Inc.
Distance from Waste/Source _____ ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 924.83 ft. MSL

C. Land surface elevation 925.42 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger [X] 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None [X] 99

16. Drilling additives used? ☐ Yes [X] No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 923.8 ft. MSL or _____ ft.

F. Fine sand, top 852.8 ft. MSL or _____ ft.

G. Filter pack, top 851.8 ft. MSL or _____ ft.

H. Screen joint, top 850.8 ft. MSL or _____ ft.

I. Well bottom 845.8 ft. MSL or _____ ft.

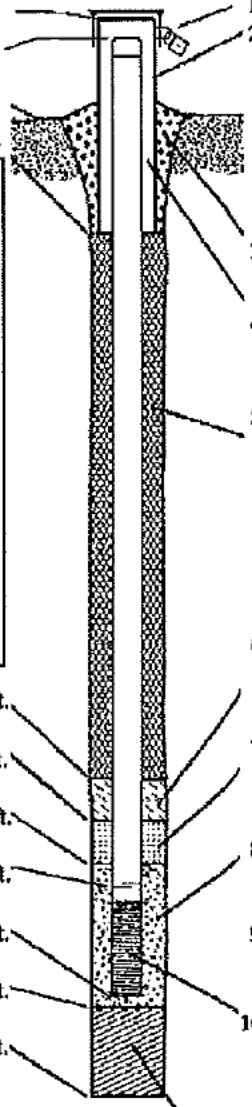
J. Filter pack, bottom 845.8 ft. MSL or _____ ft.

K. Borehole, bottom 844.5 ft. MSL or _____ ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2 in.



1. Cap and lock? [X] Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1. ft.
c. Material: Steel [X] 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete [X] 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite [X] 30
Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite [X] 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity [X] 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. [X] 3/8 in. ☐ 1/2 in. Bentonite chips [X] 32
c. 26 _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #15
b. Volume added 1 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 4 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 [X] 24
Other ☐

10. Screen material: PVC
a. Screen type: Factory cut [X] 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Timco
c. Slot size: 0.01 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None [X] 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Giles Engineering Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Industrial Drive, Hartland, WI	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: PZ-7
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No.: VW329 / DNR Well ID No.:
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 11 / 6 / 2009 (m m d d y y y y)
Type of Well: Well Code 12 / pz	Section Location of Waste/Source: [redacted]	Well Installed By: Name (first, last) and Firm: Beuford Jones, Giles Engineering Associates, Inc.
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 929.75 ft. MSL

C. Land surface elevation 930.27 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger [X] 41; Other ☐

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None [X] 99

16. Drilling additives used? ☐ Yes [X] No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 928.7 ft. MSL or _____ ft.

F. Fine sand, top 857.7 ft. MSL or _____ ft.

G. Filter pack, top 856.7 ft. MSL or _____ ft.

H. Screen joint, top 855.7 ft. MSL or _____ ft.

I. Well bottom 850.7 ft. MSL or _____ ft.

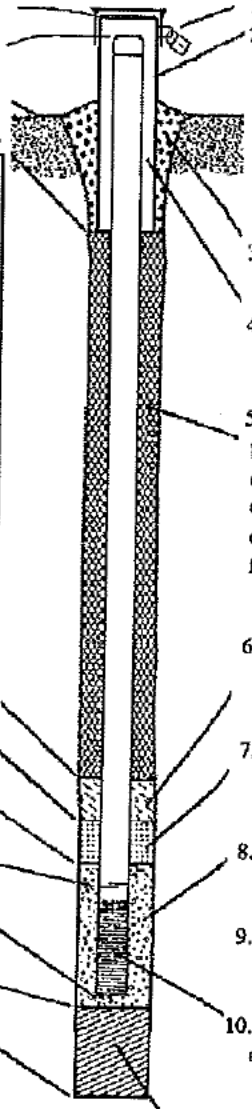
J. Filter pack, bottom 850.7 ft. MSL or _____ ft.

K. Borehole, bottom 849.7 ft. MSL or _____ ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2 in.



1. Cap and lock? [X] Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel [X] 04; Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30; Concrete [X] 01; Other ☐

4. Material between well casing and protective pipe: Bentonite [X] 30; Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite [X] 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity [X] 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. [X]3/8 in. ☐1/2 in. Bentonite chips [X] 32
c. 24 _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #15
b. Volume added 1 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 4 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23; Flush threaded PVC schedule 80 [X] 24; Other ☐

10. Screen material: PVC
a. Screen type: Factory cut [X] 11; Continuous slot ☐ 01; Other ☐
b. Manufacturer Timco
c. Slot size: 0.01 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None [X] 14; Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Giles Engineering Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment [X] Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Progress Drive, Hartland, WI	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No.: VW324 / DNR Well ID No.:
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 11 / 16 / 2009 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: [redacted]	Well Installed By: Name (first, last) and Firm: Beuford Jones, Giles Engineering Associates, Inc.
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 925.91 ft. MSL

C. Land surface elevation 926.29 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger [X] 41; Other ☐ _____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None [X] 99

16. Drilling additives used? ☐ Yes [X] No

Describe _____

17. Source of water (attach analysis, if required): _____

E. Bentonite seal, top 924.9 ft. MSL or _____ ft.

F. Fine sand, top 903.9 ft. MSL or _____ ft.

G. Filter pack, top 902.9 ft. MSL or _____ ft.

H. Screen joint, top 901.9 ft. MSL or _____ ft.

I. Well bottom 891.9 ft. MSL or _____ ft.

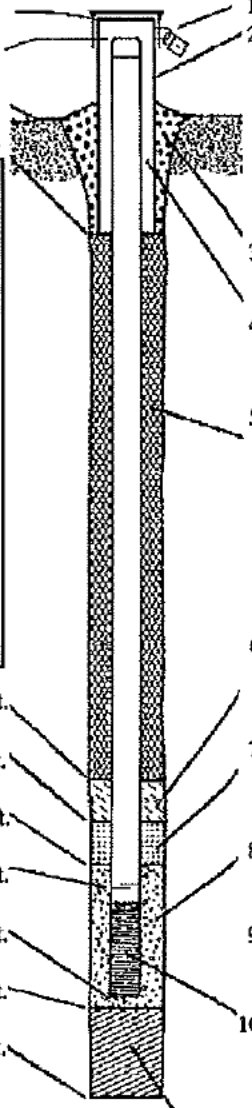
J. Filter pack, bottom 891.9 ft. MSL or _____ ft.

K. Borehole, bottom 891.9 ft. MSL or _____ ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2 in.



1. Cap and lock? [X] Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel [X] 04; Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30; Concrete [X] 01; Other ☐ _____

4. Material between well casing and protective pipe: Bentonite [X] 30; Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite [X] 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity [X] 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. [X]3/8 in. ☐1/2 in. Bentonite chips [X] 32
c. 9 _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #15
b. Volume added 1 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 6 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23; Flush threaded PVC schedule 80 [X] 24; Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut [X] 11; Continuous slot ☐ 01; Other ☐ _____
b. Manufacturer Timco
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None [X] 14; Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Giles Engineering Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment [X] Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name Progress Drive, Hartland, WI	Local Grid Location of Well _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name MW-6
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No. VW326 / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11 / 4 / 2009 (m m d d y y y y)
Type of Well Well Code 11 / mw	Section Location of Waste/Source Non-Responsive [redacted]	Well Installed By: Name (first, last) and Firm Beuford Jones
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number Giles Engineering Associates, Inc.

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 925.04 ft. MSL

C. Land surface elevation 925.40 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger [X] 4 1
Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None [X] 9 9

16. Drilling additives used? ☐ Yes [X] No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 924 ft. MSL or _____ ft.

F. Fine sand, top 903 ft. MSL or _____ ft.

G. Filter pack, top 902 ft. MSL or _____ ft.

H. Screen joint, top 901 ft. MSL or _____ ft.

I. Well bottom 891 ft. MSL or _____ ft.

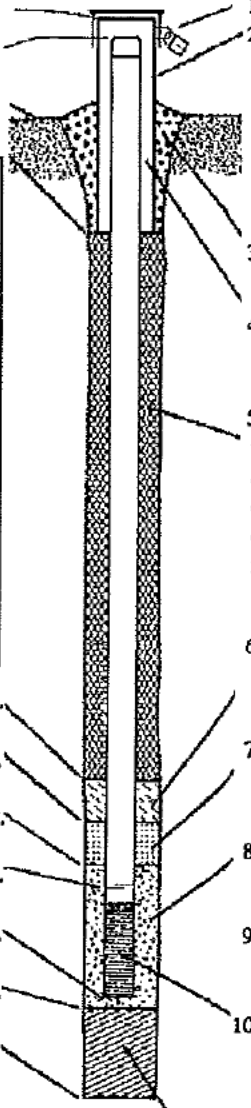
J. Filter pack, bottom 891 ft. MSL or _____ ft.

K. Borehole, bottom 891 ft. MSL or _____ ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2 in.



1. Cap and lock? [X] Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel [X] 0 4
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 3 0
Concrete [X] 0 1
Other ☐

4. Material between well casing and protective pipe:
Bentonite [X] 3 0
Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite [X] 3 3
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 3 1
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 5 0
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity [X] 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. [X] 3/8 in. ☐ 1/2 in. Bentonite chips [X] 3 2
c. 8 _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #15
b. Volume added 1 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 6 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3
Flush threaded PVC schedule 80 [X] 2 4
Other ☐

10. Screen material: PVC
a. Screen type: Factory cut [X] 1 1
Continuous slot ☐ 0 1
Other ☐
b. Manufacturer Timco
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None [X] 1 4
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Giles Engineering Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment [X] Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Industrial Drive, Hartland, WI	Local Grid Location of Well ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name MW-7
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No. VW328 / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed 11 / 5 / 2009 (m m d d y y y y)
Type of Well Well Code 11 / mw	Section Location of Waste/Source Non-Responsive	Well Installed By: Name (first, last) and Firm Beuford Jones Giles Engineering Associates, Inc.
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 929.64 ft. MSL

C. Land surface elevation 930.21 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger [X] 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None [X] 99

16. Drilling additives used? ☐ Yes [X] No
Describe _____

17. Source of water (attach analysis, if required): _____

E. Bentonite seal, top 928.6 ft. MSL or _____ ft.

F. Fine sand, top 905.6 ft. MSL or _____ ft.

G. Filter pack, top 904.6 ft. MSL or _____ ft.

H. Screen joint, top 903.6 ft. MSL or _____ ft.

I. Well bottom 893.6 ft. MSL or _____ ft.

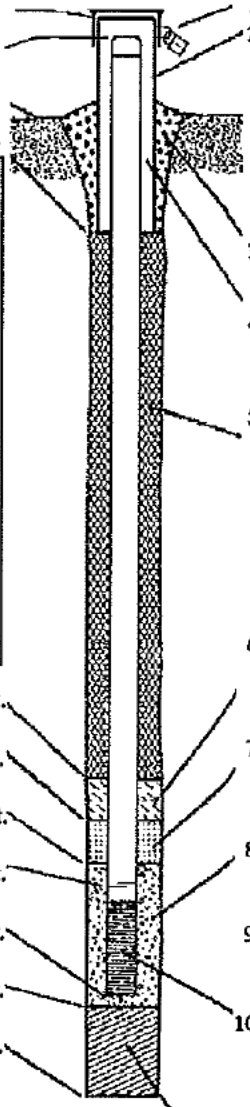
J. Filter pack, bottom 893.6 ft. MSL or _____ ft.

K. Borehole, bottom 893.6 ft. MSL or _____ ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2 in.



1. Cap and lock? [X] Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel [X] 04
Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete [X] 01
Other ☐ _____
4. Material between well casing and protective pipe:
Bentonite [X] 30
Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite [X] 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity [X] 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. [X] 3/8 in. ☐ 1/2 in. Bentonite chips [X] 32
c. 19 _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #15
b. Volume added 1 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 6 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 [X] 24
Other ☐ _____
10. Screen material: PVC
a. Screen type: Factory cut [X] 11
Continuous slot ☐ 01
Other ☐ _____
b. Manufacturer Timco
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None [X] 14
Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Giles Engineering Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ] _____

Facility/Project Name	County Name	Well Name
Progress Drive, Hartland, WI	WAUKESHA	PZ-6

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	68	VW327	

1. Can this well be purged dry? [ ] Yes [X] No

2. Well development method
   - surged with bailer and bailed [ ] 41
   - surged with bailer and pumped [ ] 61
   - surged with block and bailed [ ] 42
   - surged with block and pumped [X] 62
   - surged with block, bailed and pumped [ ] 70
   - compressed air [ ] 20
   - bailed only [ ] 10
   - pumped only [ ] 51
   - pumped slowly [ ] 50
   - Other _____ [ ]

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 79.8 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing ____ gal.

7. Volume of water removed from well 89 gal.

8. Volume of water added (if any) ____ gal.

9. Source of water added _____

10. Analysis performed on water added? [ ] Yes [X] No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 24.77 ft.	24.77 ft.
Date	b. 11 / 6 / 2009 (m m d d y y y y)	11 / 06 / 2009 (m m d d y y y y)
Time	c. 12 : 05 [ ] a.m. [X] p.m.	01 : 05 [ ] a.m. [X] p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear [ ] 10 Turbid [X] 15 (Describe) No Odor No Sheen	Clear [X] 20 Turbid [ ] 25 (Describe) No Odor No Sheen

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____ mg/l	____ mg/l
15. COD	____ mg/l	____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Greg Last Name: Roanhouse
Firm: Giles Engineering Associates, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Mark Last Name: Drews
Facility/Firm: State of Wisconsin DNR
Street: 141 NW Barstow St.
City/State/Zip: Waukesha WI 53188-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Greg Roanhouse
Firm: Giles Engineering Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Progress Drive, Hartland, WI	WAUKESHA	MW-6

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	68	VW326	

1. Can this well be purged dry? ☐ Yes X No

2. Well development method
   - surged with bailer and bailed ☐ 41
   - surged with bailer and pumped ☐ 61
   - surged with block and bailed ☐ 42
   - surged with block and pumped [X] 62
   - surged with block, bailed and pumped ☐ 70
   - compressed air ☐ 20
   - bailed only ☐ 10
   - pumped only ☐ 51
   - pumped slowly ☐ 50
   - Other _____ ☐

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 31.9 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing ___ gal.

7. Volume of water removed from well 12 gal.

8. Volume of water added (if any) ___ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes X No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 24.96 ft.	24.96 ft.
Date	b. 11 / 6 / 2009 (m m d d y y y y)	11 / 6 / 2009 (m m d d y y y y)
Time	c. 10 : 45 X a.m. ☐ p.m.	11 : 45 [X] a.m. ☐ p.m.
12. Sediment in well bottom	___ inches	___ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15 (Describe) No Odor No Sheen	Clear [X] 20 Turbid ☐ 25 (Describe) No Odor No Sheen

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	___ mg/l	___ mg/l
15. COD	___ mg/l	___ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Greg Last Name: Roanhouse
Firm: Giles Engineering Associates, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Mark Last Name: Drews
Facility/Firm: State of Wisconsin DNR
Street: 141 NW Barstow St.
City/State/Zip: Waukesha WI 53188-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Greg Roanhouse
Firm: Giles Engineering Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Progress Drive, Hartland, WI	WAUKESHA	PZ-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	68	VW325	

1. Can this well be purged dry? ☐ Yes X No

2. Well development method
   - surged with bailer and bailed ☐ 41
   - surged with bailer and pumped ☐ 61
   - surged with block and bailed ☐ 42
   - surged with block and pumped [X] 62
   - surged with block, bailed and pumped ☐ 70
   - compressed air ☐ 20
   - bailed only ☐ 10
   - pumped only ☐ 51
   - pumped slowly ☐ 50
   - Other _____ ☐

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 79.6 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing ___ gal.

7. Volume of water removed from well 85 gal.

8. Volume of water added (if any) ___ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes X No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 27.71 ft.	27.74 ft.
Date	b. 11 / 6 / 2009 (m m / d d / y y y y)	11 / 6 / 2009 (m m / d d / y y y y)
Time	c. 09 : 30 X a.m. ☐ p.m.	10 : 30 [X] a.m. ☐ p.m.
12. Sediment in well bottom	___ inches	___ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15 (Describe) No Odor No Sheen	Clear [X] 20 Turbid ☐ 25 (Describe) No Odor No Sheen

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids ___ mg/l ___ mg/l

15. COD ___ mg/l ___ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Greg Last Name: Roanhouse
Firm: Giles Engineering Associates, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Mark Last Name: Drews
Facility/Firm: State of Wisconsin DNR
Street: 141 NW Barstow St.
City/State/Zip: Waukesha WI 53188-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Greg Roanhouse
Firm: Giles Engineering Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Progress Drive, Hartland, WI	WAUKESHA	MW-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	68	VW324	

1. Can this well be purged dry? ☐ Yes X No

2. Well development method
   - surged with bailer and bailed ☐ 41
   - surged with bailer and pumped ☐ 61
   - surged with block and bailed ☐ 42
   - surged with block and pumped ☒ 62
   - surged with block, bailed and pumped ☐ 70
   - compressed air ☐ 20
   - bailed only ☐ 10
   - pumped only ☐ 51
   - pumped slowly ☐ 50
   - Other _____ ☐

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 33.6 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing ____ gal.

7. Volume of water removed from well 12 gal.

8. Volume of water added (if any) ____ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes X No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 26.12 ft.	26.12 ft.
Date	b. 11 / 18 / 2009 (m m d d y y y y)	11 / 18 / 2009 (m m d d y y y y)
Time	c. 09 : 00 X a.m. ☐ p.m.	10 : 00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) No Odor No Sheen	Clear ☒ 20 Turbid ☐ 25 (Describe) No Odor No Sheen

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Greg Last Name: Roanhouse
Firm: Giles Engineering Associates, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Mark Last Name: Drews
Facility/Firm: State of Wisconsin DNR
Street: 141 NW Barstow St.
City/State/Zip: Waukesha WI 53188-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Greg Roanhouse
Firm: Giles Engineering Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ] _____

Facility/Project Name	County Name	Well Name
Industrial Drive, Hartland, WI	WAUKESHA	MW-7

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	68	VW328	

1. Can this well be purged dry? [ ] Yes [X] No

2. Well development method
   - surged with bailer and bailed [ ] 41
   - surged with bailer and pumped [ ] 61
   - surged with block and bailed [ ] 42
   - surged with block and pumped [X] 62
   - surged with block, bailed and pumped [ ] 70
   - compressed air [ ] 20
   - bailed only [ ] 10
   - pumped only [ ] 51
   - pumped slowly [ ] 50
   - Other _____ [ ]

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 35.8 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing ____ gal.

7. Volume of water removed from well 11 gal.

8. Volume of water added (if any) ____ gal.

9. Source of water added _____

10. Analysis performed on water added? [ ] Yes [X] No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 29.32 ft.	29.32 ft.
Date	b. 11 / 6 / 2009 (m m / d d / y y y y)	11 / 6 / 2009 (m m / d d / y y y y)
Time	c. 01 : 25 [ ] a.m. [X] p.m.	02 : 25 [ ] a.m. [X] p.m.
12. Sediment in well bottom	___ inches	___ inches
13. Water clarity	Clear [ ] 10 Turbid [X] 15 (Describe) No Odor No Sheen	Clear [X] 20 Turbid [ ] 25 (Describe) No Odor No Sheen

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____ mg/l	____ mg/l
15. COD	____ mg/l	____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Greg Last Name: Roanhouse
Firm: Giles Engineering Associates, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Mark Last Name: Drews
Facility/Firm: State of Wisconsin DNR
Street: 141 NW Barstow St.
City/State/Zip: Waukesha WI 53188-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Greg Roanhouse
Firm: Giles Engineering Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Industrial Drive, Hartland, WI	WAUKESHA	PZ-7

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	68	VW329	

1. Can this well be purged dry? ☐ Yes X No

2. Well development method
   - surged with bailer and bailed ☐ 41
   - surged with bailer and pumped ☐ 61
   - surged with block and bailed ☐ 42
   - surged with block and pumped [X] 62
   - surged with block, bailed and pumped ☐ 70
   - compressed air ☐ 20
   - bailed only ☐ 10
   - pumped only ☐ 51
   - pumped slowly ☐ 50
   - Other _____ ☐

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 80.1 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing ____ gal.

7. Volume of water removed from well 81 gal.

8. Volume of water added (if any) ____ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes X No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 29.52 ft.	29.53 ft.
Date	b. 11 / 9 / 2009 (mm dd yyyy)	11 / 9 / 2009 (mm dd yyyy)
Time	c. 03 : 00 ☐ a.m. X p.m.	04 : 00 ☐ a.m. [X] p.m.
12. Sediment in well bottom	___ inches	___ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15 (Describe) No Odor No Sheen	Clear [X] 20 Turbid ☐ 25 (Describe) NoOdor No Sheen

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____ mg/l	____ mg/l
15. COD	____ mg/l	____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Greg Last Name: Roanhouse
Firm: Giles Engineering Associates, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Mark Last Name: Drews
Facility/Firm: State of Wisconsin DNR
Street: 141 NW Barstow St.
City/State/Zip: Waukesha WI 53188-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Greg Roanhouse
Firm: Giles Engineering Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

GROUNDWATER MONITORING WELL INFORMATION FORM

Chapter 281 and 289, Wis. Stats.
Form 4400-89

Rev. 7-98

Facility Name	Facility ID Number	License, Permit or Monitoring No.	Date	Completed By (Name and Firm)
Progress Drive, Heartland, WI			12/2/2009	Tom Bauman - Giles Engineering Associates, Inc

WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir. N/S	Dir. E/W	Date Established	Well Casing Diam.	Well Casing Type	Elevations Top of Well Casing	Elevations Ground Surface	Reference MSL (√)	Reference Site Datum (√)	Depths Screen Top	Depths Initial Groundwater	Depths Well Depth	Screen Length	Well Type	Well Status	Enf. Stds.	Grad-ient	Distance to Waste
			403732.25	X																	
VW324	MW-5		2439166.24	X		11/3/2009	2	P	925.91	926.29	X		901.9	26.12	34.01	10	11/mw	A			
			403728.84	X																	
VW325	PZ-5		2439165.37	X		11/3/2009	2	P	926.21	926.57	X		852.2	27.71	79.01	5	12/pz	A			
			404084.27	X																	
VW326	MW-6		2439163.76	X		11/4/2009	2	P	925.04	925.4	X		901	24.96	34.04	10	11/mw	A			
			404088.36	X																	
VW327	PZ-6		2439163.24	X		11/4/2009	2	P	924.83	925.42	X		850.8	24.77	79.03	5	12/pz	A			
			404646.91	X																	
VW328	MW-7		2438664.2	X		11/5/2009	2	P	929.64	930.21	X		903.6	29.32	36.04	10	11/mw	A			
			404647.04	X																	
VW329	PZ-7		2438669.8	X		11/6/2009	2	P	929.75	930.27	X		855.7	29.52	79.05	5	12/pz	A			

Location Coordinates Are:
- [X] State Plane Coordinate
  - ☐ Northern
  - ☐ Central
  - [X] Southern
- ☐ Local Grid System

Grid Origin Location: (Check if estimated: ☐)

Lat. ____° ____' ____" Long. ____° ____' ____" or

St. Plane ____ ft. N. ____ ft. E. S/C/N Zone

Remarks:

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than $10 nor more than $5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

APPENDIX F

Bark River Site – Geologic Cross Sections, Groundwater Flow Maps and VOC Isoconcentration Maps

[redacted]

Non-Responsive

		Prepared By: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 6409 Odana Road, Suite C Madison, WI 53719 608.441.5544	BARK RIVER PROPERTIES SITE HARTLAND, WISCONSIN SHALLOW GROUND-WATER ELEVATION CONTOUR MAP JUNE 2007 *FILE:* Flow 06-2007_nkc.dwg *DATE:* OCTOBER 2007 *FIGURE:* 2

Non-Responsive

[redacted]

LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 6409 Odana Road, Suite C Madison, WI 53719 608.441.5544	BARK RIVER PROPERTIES SITE HARTLAND, WISCONSIN DEEP GROUND-WATER ELEVATION CONTOUR MAP JUNE 2007
	FILE: Flow 06-2007_nkc.dwg *DATE:* OCTOBER 2007 *FIGURE:* 3

Non-Responsive

DATE	REVISED

Prepared By:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and
Environmental Engineering Services
6409 Odana Road, Suite C
Madison, WI 53719
608.441.5544

BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

DCE & TCE ISOCONCENTRATION CONTOURS–SHALLOW GROUND WATER
JUNE 2007

FILE: 06-2007 TCE&DCE.dwg	*DATE:* OCTOBER 2007	*FIGURE:* 6

[redacted]

Non-Responsive

		Prepared By: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 6409 Odana Road, Suite C Madison, WI 53719 608.441.5544	BARK RIVER PROPERTIES SITE HARTLAND, WISCONSIN
			DCE & TCE ISOCONCENTRATION CONTOURS–DEEP GROUND WATER JUNE 2007
			FILE: 06-2007 TCE&DCE.dwg *DATE:* OCTOBER 2007 *FIGURE:* 7

Non-Responsive

DATE	REVISED

Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and
Environmental Engineering Services
6409 Odana Road, Suite C
Madison, WI 53719
608.441.5544

BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

DCE & TCE ISOCONCENTRATION CONTOURS–SHALLOW GROUND WATER
SEPTEMBER 2007

FILE: 09-2007 TCE&DCE.dwg | *DATE:* OCTOBER 2007 | *FIGURE:* 8

Non-Responsive

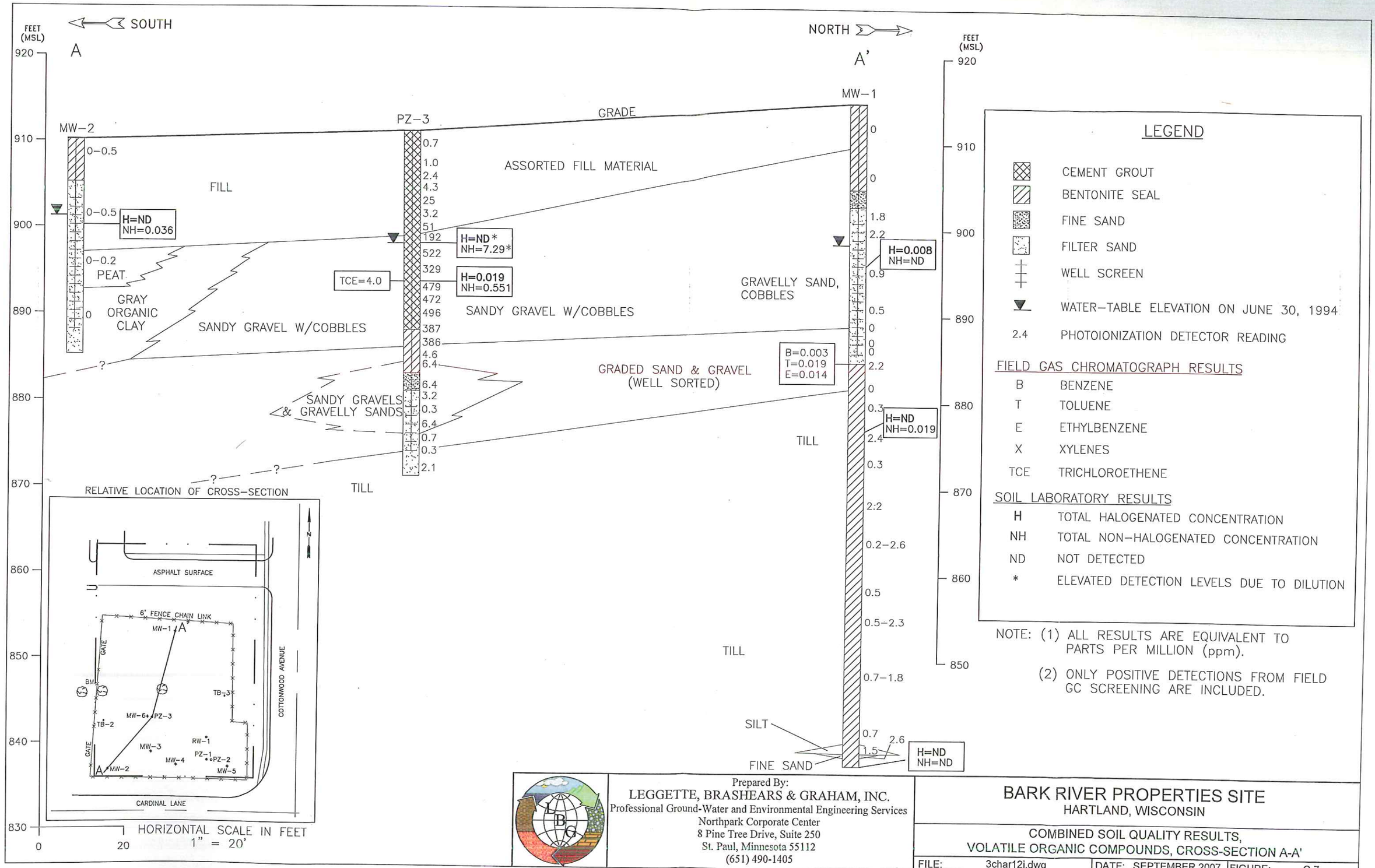
DATE	REVISED

Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and
Environmental Engineering Services
6409 Odana Road, Suite C
Madison, WI 53719
608.441.5544

BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

DCE & TCE ISOCONCENTRATION CONTOURS–DEEP GROUND WATER
SEPTEMBER 2007

FILE: 09-2007 TCE&DCE.dwg | *DATE:* OCTOBER 2007 | *FIGURE:* 9

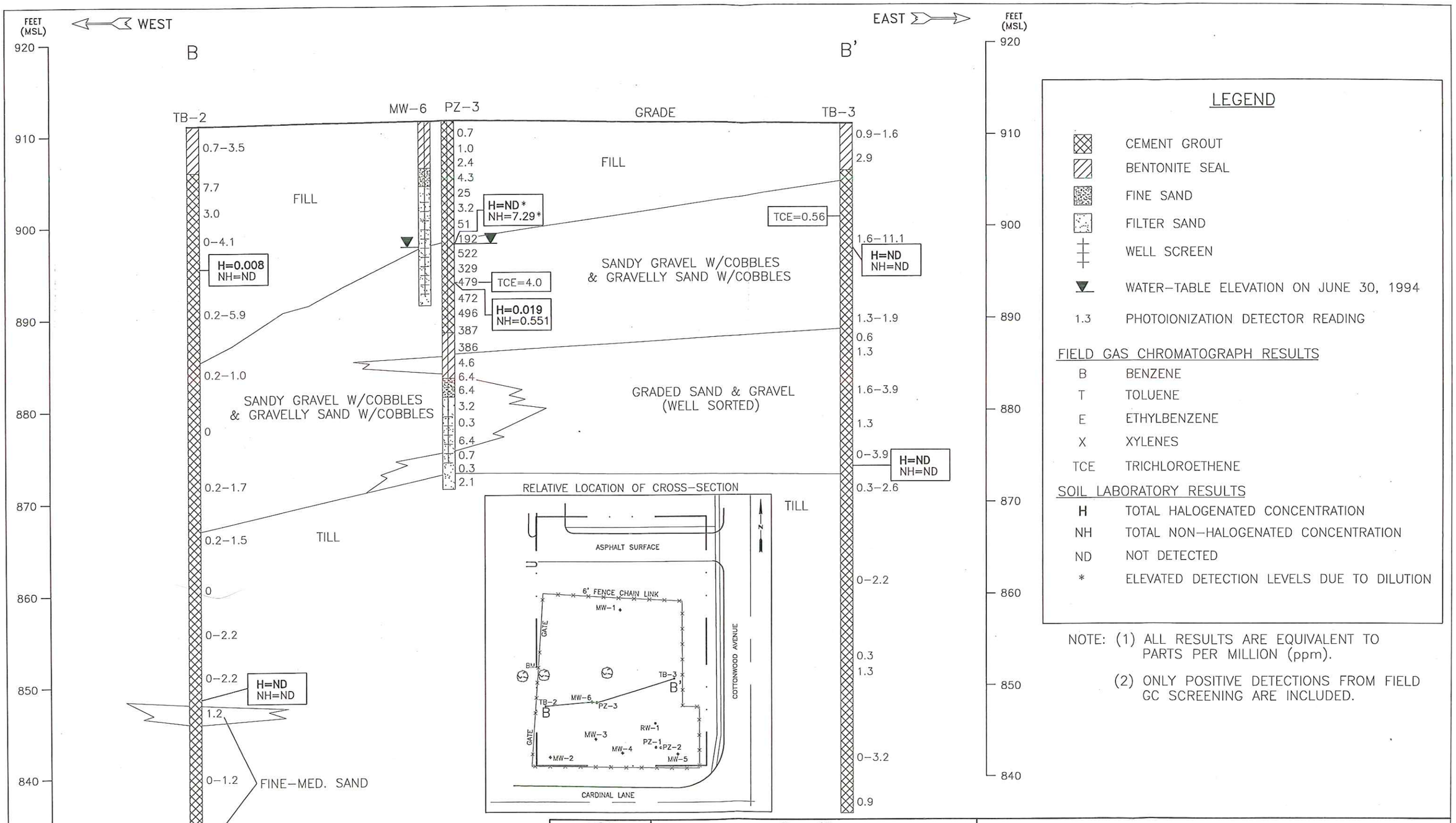


Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
Northpark Corporate Center
8 Pine Tree Drive, Suite 250
St. Paul, Minnesota 55112
(651) 490-1405

BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

COMBINED SOIL QUALITY RESULTS,
VOLATILE ORGANIC COMPOUNDS, CROSS-SECTION A-A'

FILE: 3char12j.dwg	DATE: SEPTEMBER 2007	FIGURE: C-7



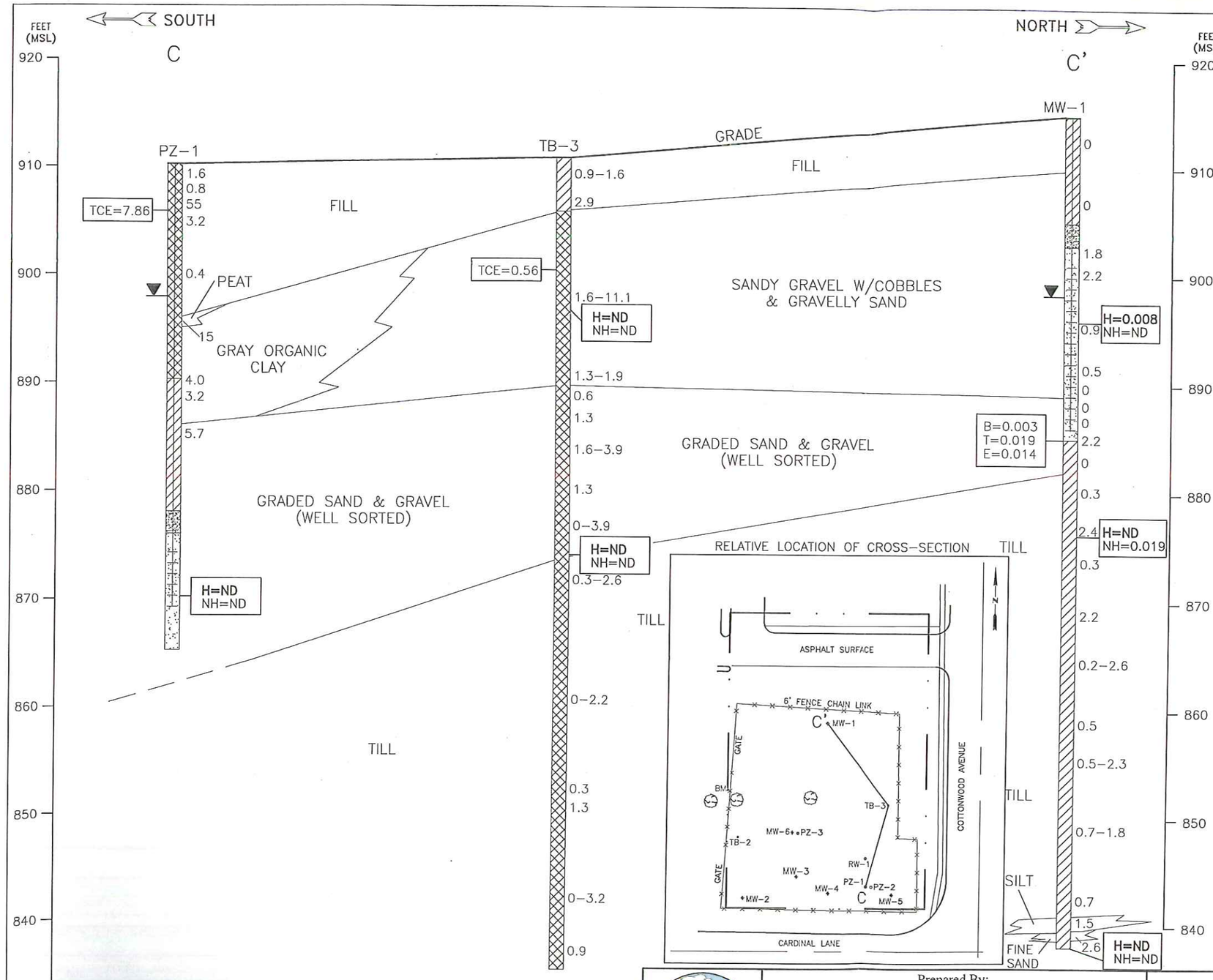
Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
Northpark Corporate Center
8 Pine Tree Drive, Suite 250
St. Paul, Minnesota 55112
(651) 490-1405

BARK RIVER PROPERTIES SITE

HARTLAND, WISCONSIN

COMBINED SOIL QUALITY RESULTS,
VOLATILE ORGANIC COMPOUNDS, CROSS-SECTION B-B'

FILE: 3char12i.dwg	DATE: SEPTEMBER 2007	FIGURE: C-8



LEGEND

- CEMENT GROUT
- BENTONITE SEAL
- FINE SAND
- FILTER SAND
- WELL SCREEN
- WATER-TABLE ELEVATION ON JUNE 30, 1994
- 2.2 PHOTOIONIZATION DETECTOR READING

FIELD GAS CHROMATOGRAPH RESULTS

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
TCE	TRICHLOROETHENE

SOIL LABORATORY RESULTS

H	TOTAL HALOGENATED CONCENTRATION
NH	TOTAL NON-HALOGENATED CONCENTRATION
ND	NOT DETECTED
*	ELEVATED DETECTION LEVELS DUE TO DILUTION

NOTE: (1) ALL RESULTS ARE EQUIVALENT TO PARTS PER MILLION (ppm).

(2) ONLY POSITIVE DETECTIONS FROM FIELD GC SCREENING ARE INCLUDED.

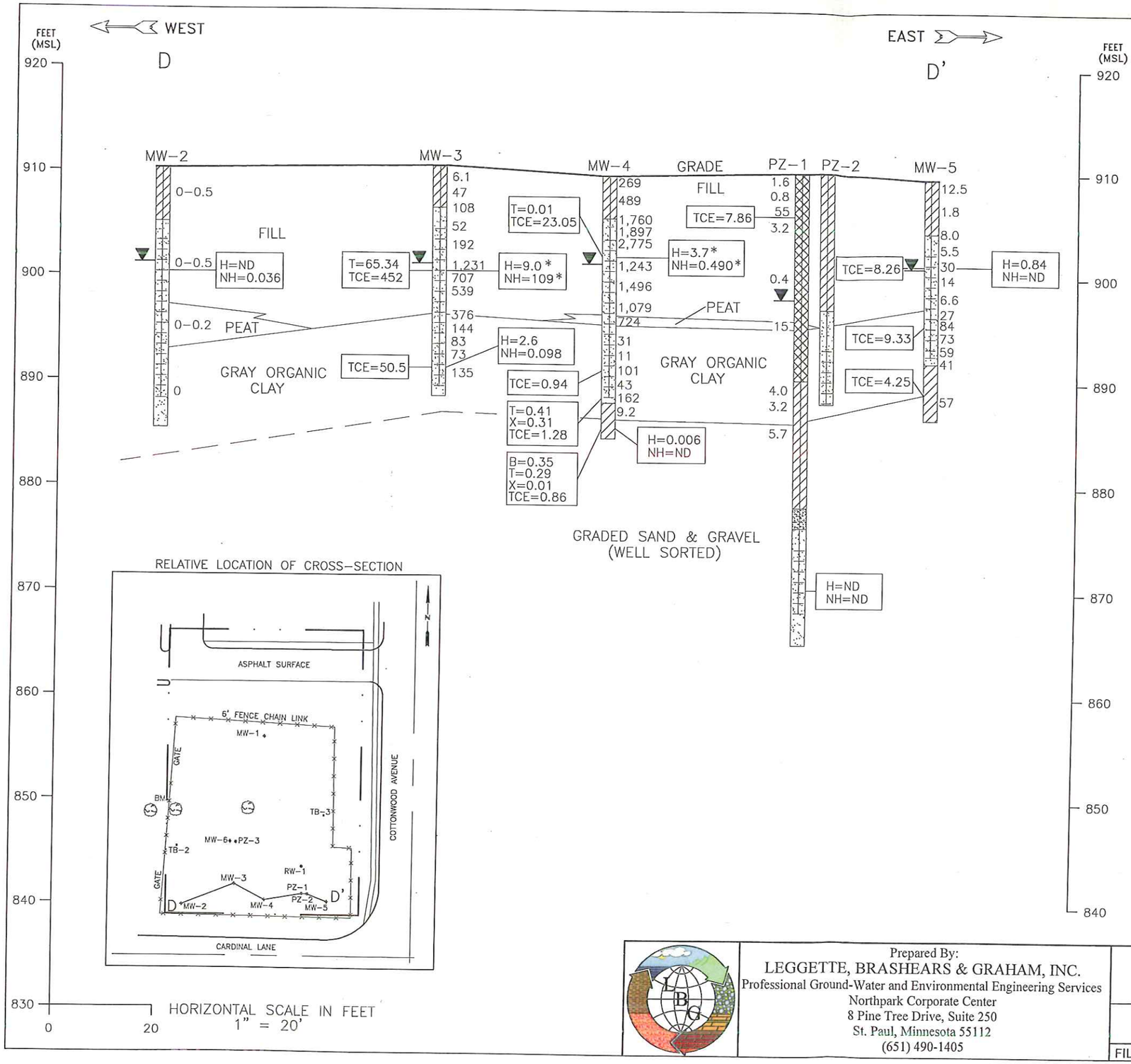
Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
Northpark Corporate Center
8 Pine Tree Drive, Suite 250
St. Paul, Minnesota 55112
(651) 490-1405

BARK RIVER PROPERTIES SITE

HARTLAND, WISCONSIN

COMBINED SOIL QUALITY RESULTS,
VOLATILE ORGANIC COMPOUNDS, CROSS-SECTION C-C'

FILE: 3char12h.dwg	DATE: SEPTEMBER 2007	FIGURE: C-9



RELATIVE LOCATION OF CROSS-SECTION

HORIZONTAL SCALE IN FEET
1" = 20'
0 20

LEGEND

- CEMENT GROUT
- BENTONITE SEAL
- FINE SAND
- FILTER SAND
- WELL SCREEN
- WATER-TABLE ELEVATION ON JUNE 30, 1994
- 1.8 PHOTOIONIZATION DETECTOR READING

FIELD GAS CHROMATOGRAPH RESULTS

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
TCE	TRICHLOROETHENE

SOIL LABORATORY RESULTS

H	TOTAL HALOGENATED CONCENTRATION
NH	TOTAL NON-HALOGENATED CONCENTRATION
ND	NOT DETECTED
*	ELEVATED DETECTION LEVELS DUE TO DILUTION

NOTE: (1) ALL RESULTS ARE EQUIVALENT TO PARTS PER MILLION (ppm).

(2) ONLY POSITIVE DETECTIONS FROM FIELD GC SCREENING ARE INCLUDED.

Prepared By:
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8 Pine Tree Drive, Suite 250
St. Paul, Minnesota 55112
(651) 490-1405

BARK RIVER PROPERTIES SITE
HARTLAND, WISCONSIN

COMBINED SOIL QUALITY RESULTS
VOLATILE ORGANIC COMPOUNDS, CROSS-SECTION D-D'

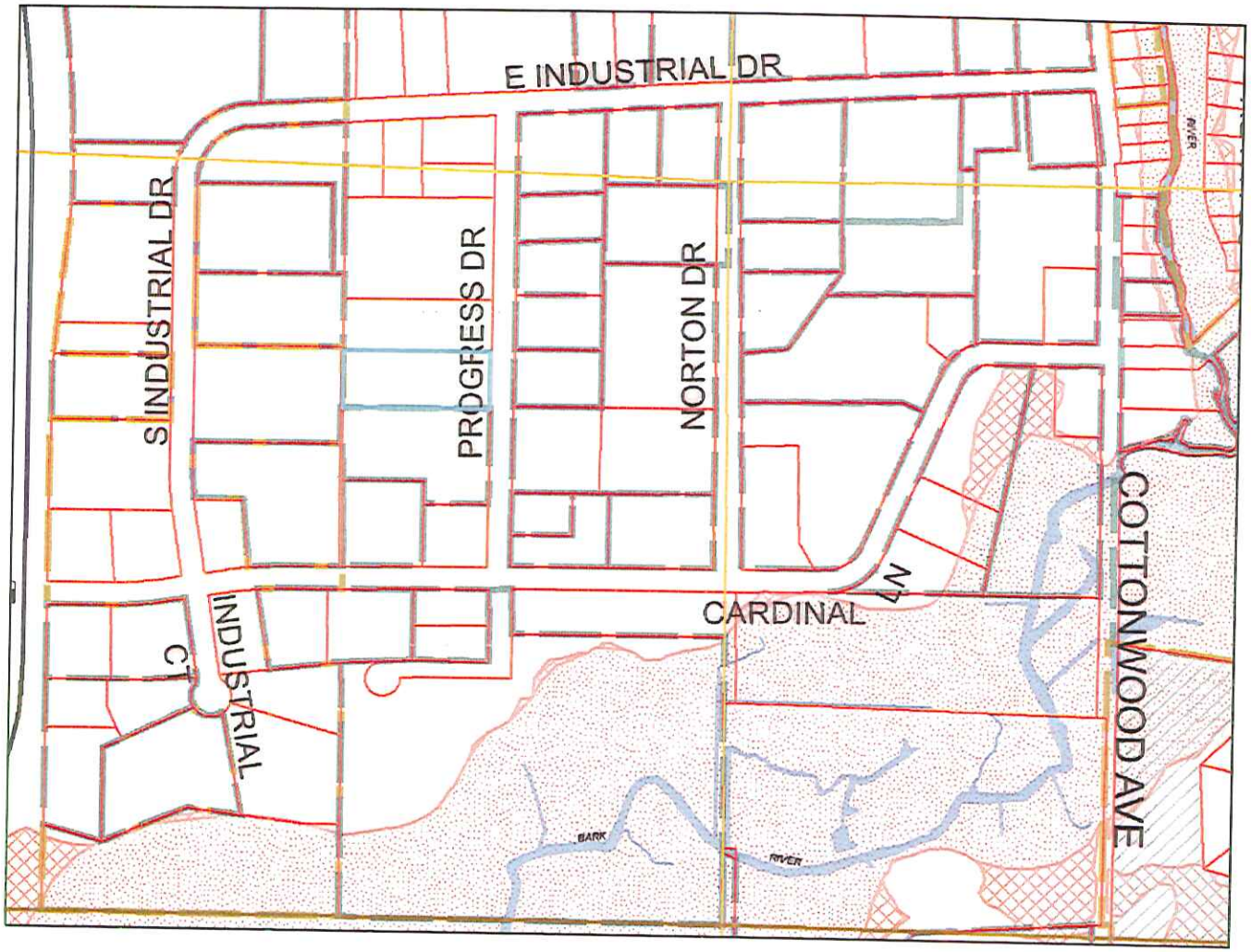
FILE:	3char12g.dwg	DATE: SEPTEMBER 2007	FIGURE:	C-10

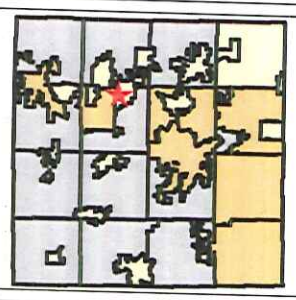
APPENDIX G

Hartland Well #3 Area Floodplain Map
Hartland Well #3 Area Topography Map
Hartland Well #3 Aerial Photographs 1941 - 2007

WAUKESHA COUNTY
Internet Mapping Site

Hartland Well #3 Area Floodplain Map





Legend

Street Centerlines (Basemap)
Road Classification
County
Interstate
Interstate Ramp
State
State Ramp
US
US Ramp
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Parcels
Shared Interest Parcels
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Lakes and Rivers
Streams and Creeks
FEMA Floodplain (2008)

Flood Zone
1% Chance Flood Area (Zone A No Base El.)
1% Chance Flood Area (Zone AE w/ Base El.)
Floodway (Zone AE)

N

0 575 1150 1725 ft.

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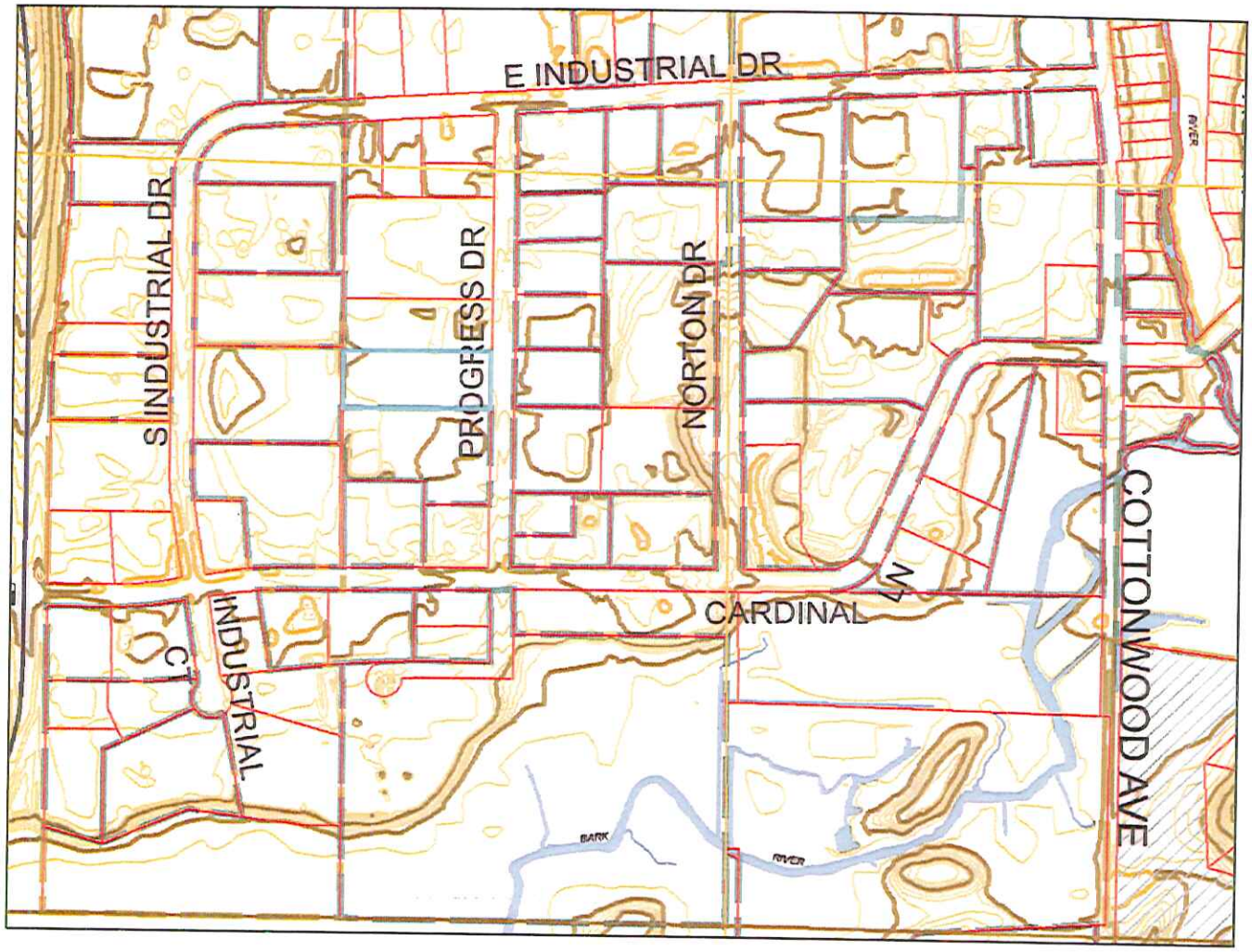
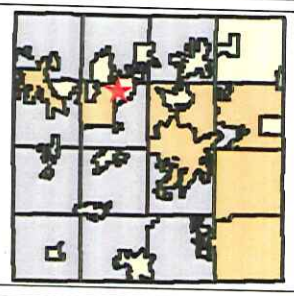
Map Generated: Sep 2, 2009

WAUKESHA COUNTY
Internet Mapping Site

Hartland Well #3 Area Topography





Legend

Street Centerlines (Basemap)
Road Classification
County
Interstate
Interstate Ramp
State
State Ramp
US
US Ramp
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Parcels
Shared Interest Parcels
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Lakes and Rivers
Streams and Creeks
Contour Lines 2005

Type
Index Contour Line
Index Contour Line Approx
Index Depression Line
Index Depression Line Approx
Intermed Depression Line
Intermed Depression Line Approx
Intermediate Contour Line
Intermediate Contour Line Approx

N

0 575 1150 1725 ft.

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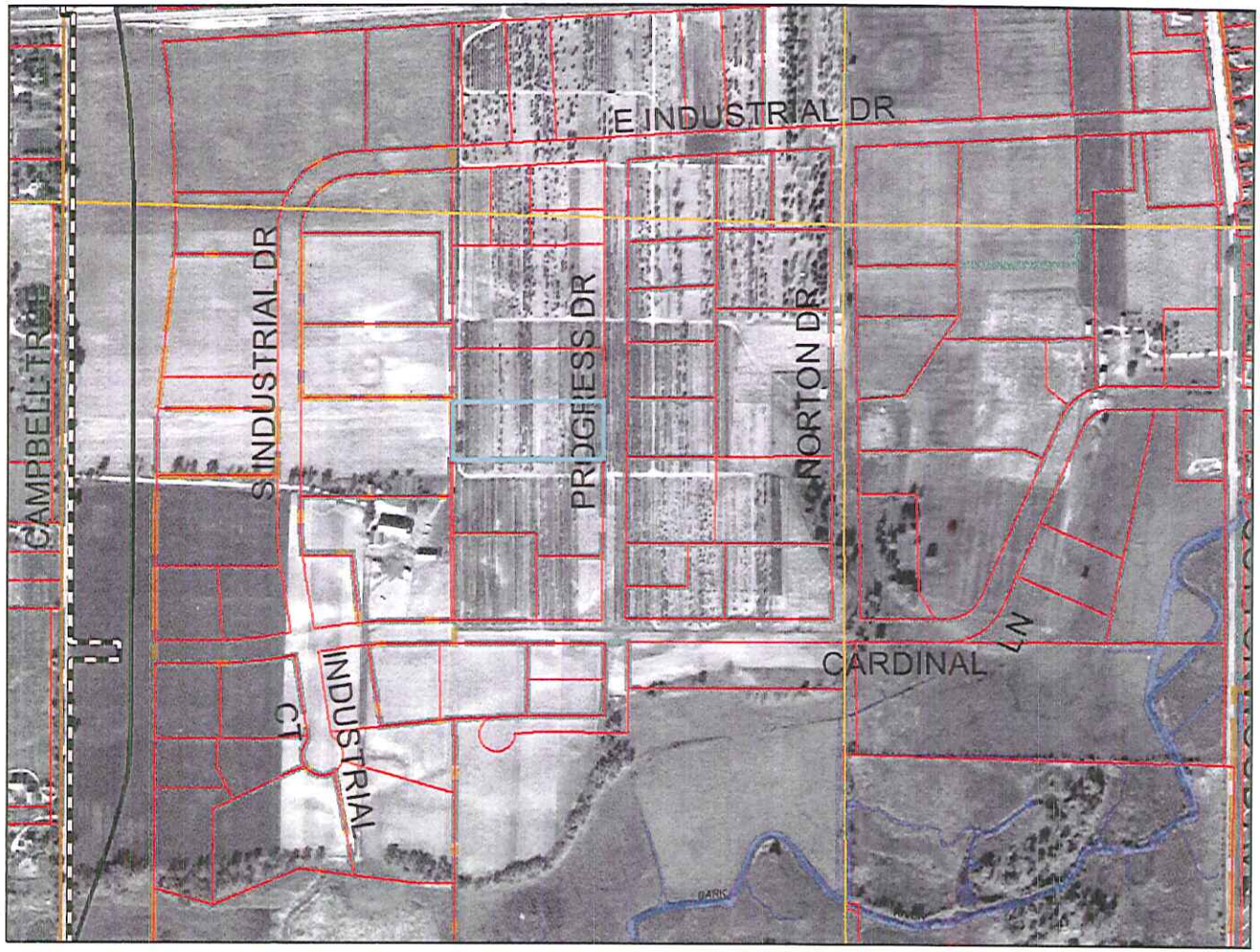
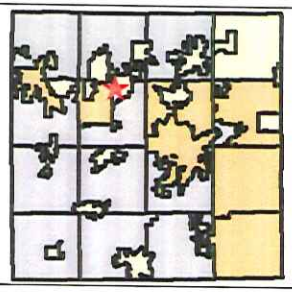
Map Generated: Sep 2, 2009

WAUKESHA COUNTY
Internet Mapping Site

Hartland Well #3, 1941





Legend

Street Centerlines (Basemap)
Road Classification
County
Interstate
Interstate Ramp
State
State Ramp
US
US Ramp
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Parcels
Shared Interest Parcels
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Lakes and Rivers
Streams and Creeks
Waukesha County 1941
Value
High : 255
Low : 0

N

0 575 1150 1725 ft.

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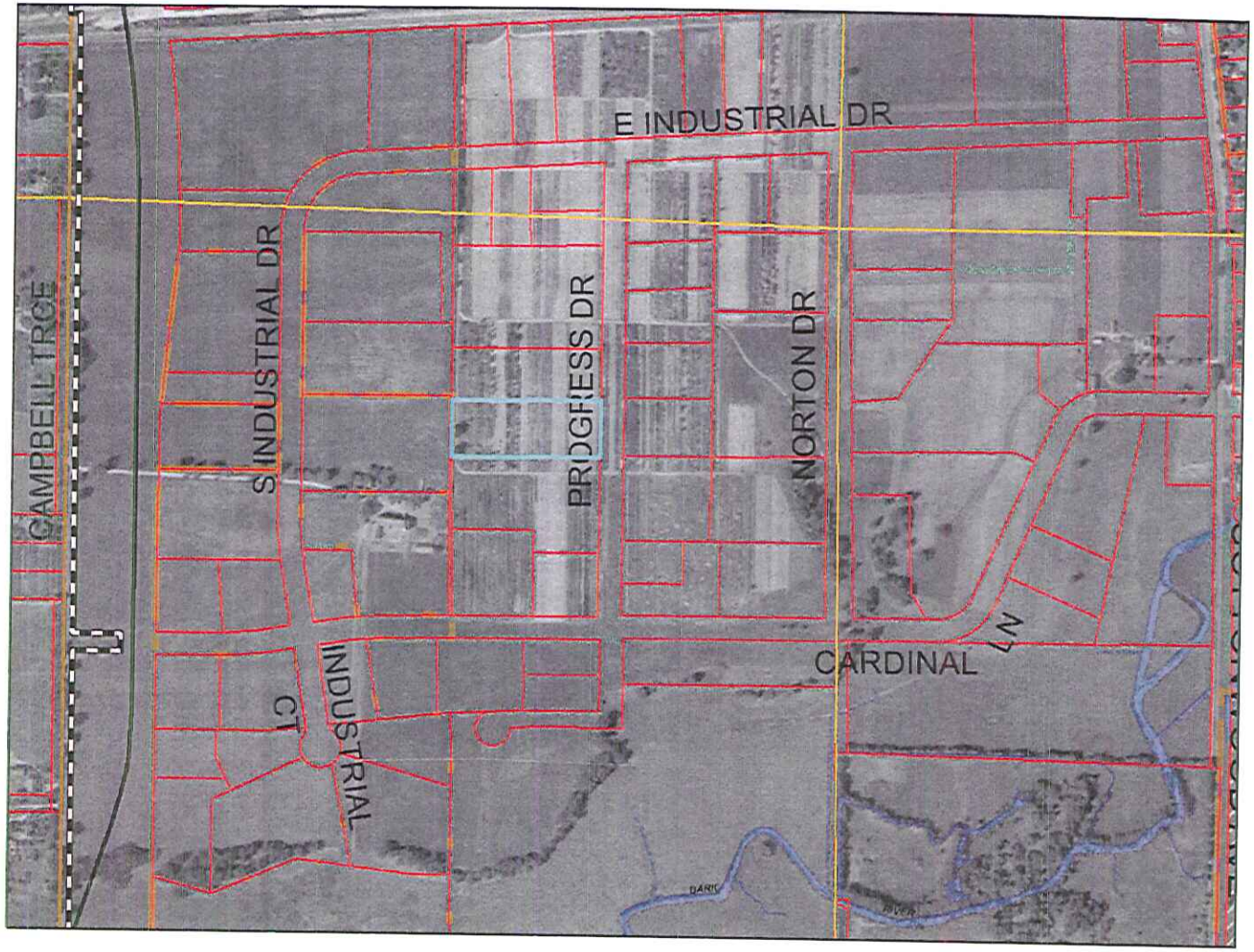
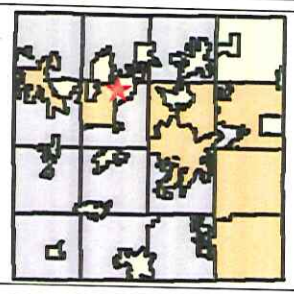
Map Generated: Jul 1, 2009

WAUKESHA COUNTY
Internet Mapping Site

Hartland Well #3, 1950





Legend

Street Centerlines (Basemap)
Road Classification
County
Interstate
Interstate Ramp
State
State Ramp
US
US Ramp
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Parcels
Shared Interest Parcels
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Lakes and Rivers
Streams and Creeks
Waukesha County 1950
Value
High : 255
Low : 94

N

0 575 1150 1725 ft.

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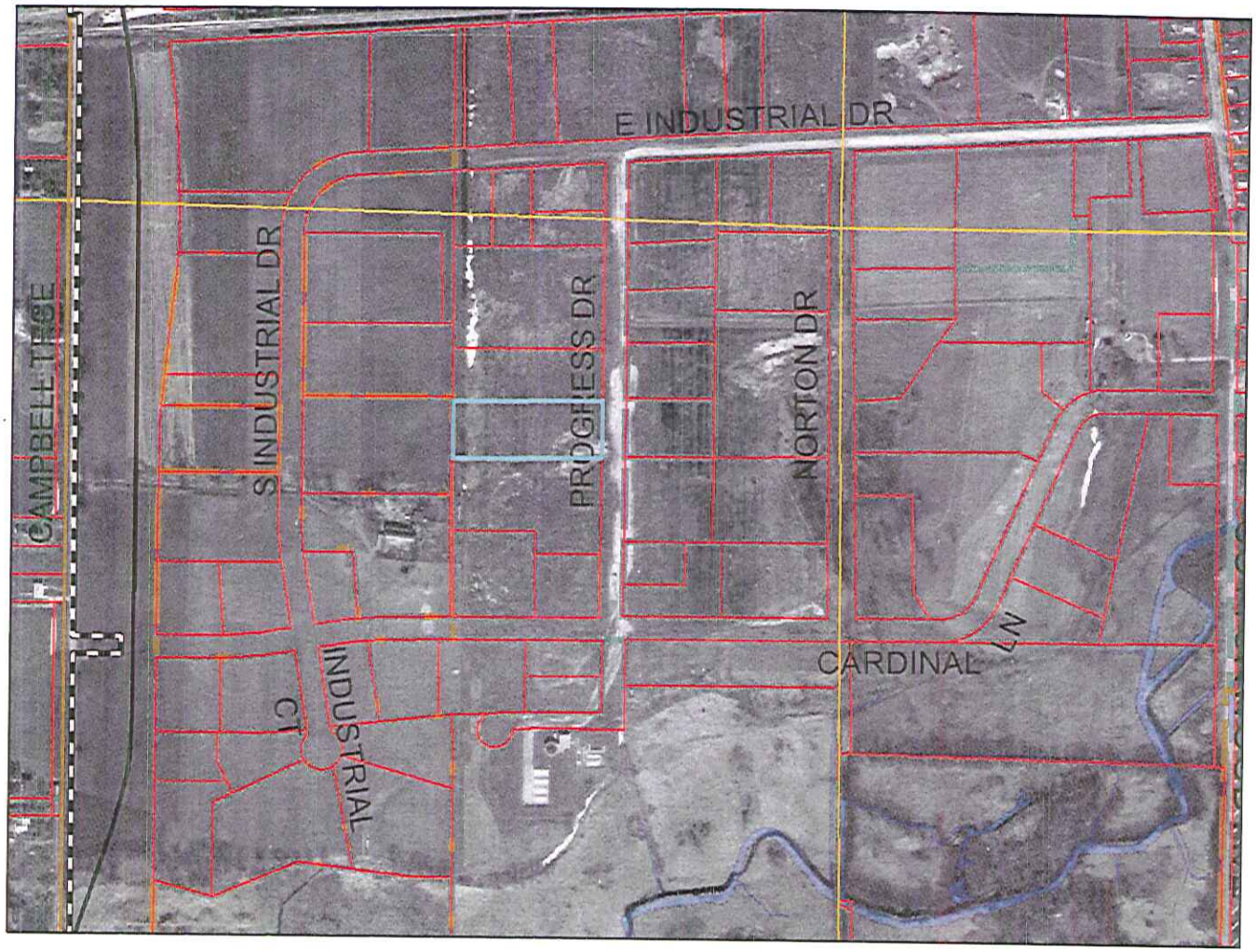
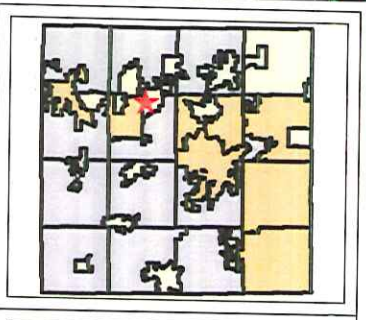
WAUKESHA COUNTY
Internet Mapping Site

Hartland Well #3, 1963





Legend

Street Centerlines (Basemap)
Road Classification
County
Interstate
Interstate Ramp
State
State Ramp
US
US Ramp
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Parcels
Shared Interest Parcels
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Lakes and Rivers
Streams and Creeks
Waukesha County 1963
Value
High : 255
Low : 52

N

0 575 1150 1725 ft.

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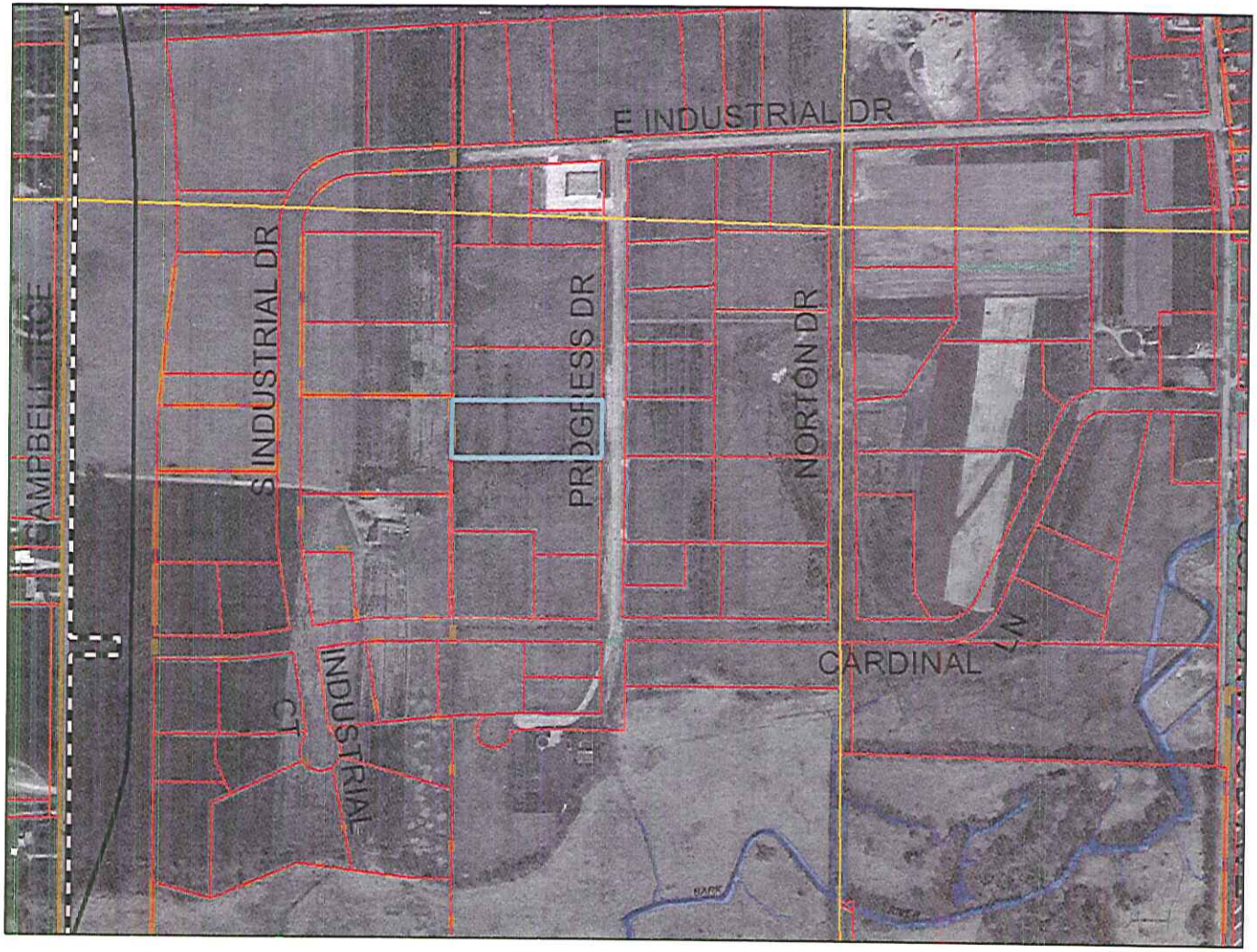
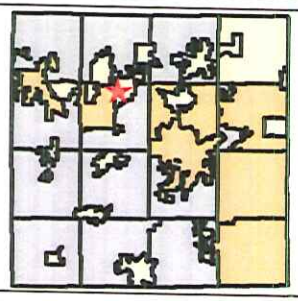
Map Generated: Jul 1, 2009

WAUKESHA COUNTY
Internet Mapping Site

Hartland Well #3, 1970





Legend

Street Centerlines (Basemap)
Road Classification
County
Interstate
Interstate Ramp
State
State Ramp
US
US Ramp
Civil Division Boundaries
Bordering Counties
PLSS Section Lines
PLSS Quarter Section Lines
Parcels
Shared Interest Parcels
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Lakes and Rivers
Streams and Creeks
Waukesha County 1970
Value
High : 255
Low : 38

N

0 575 1150 1725 ft.

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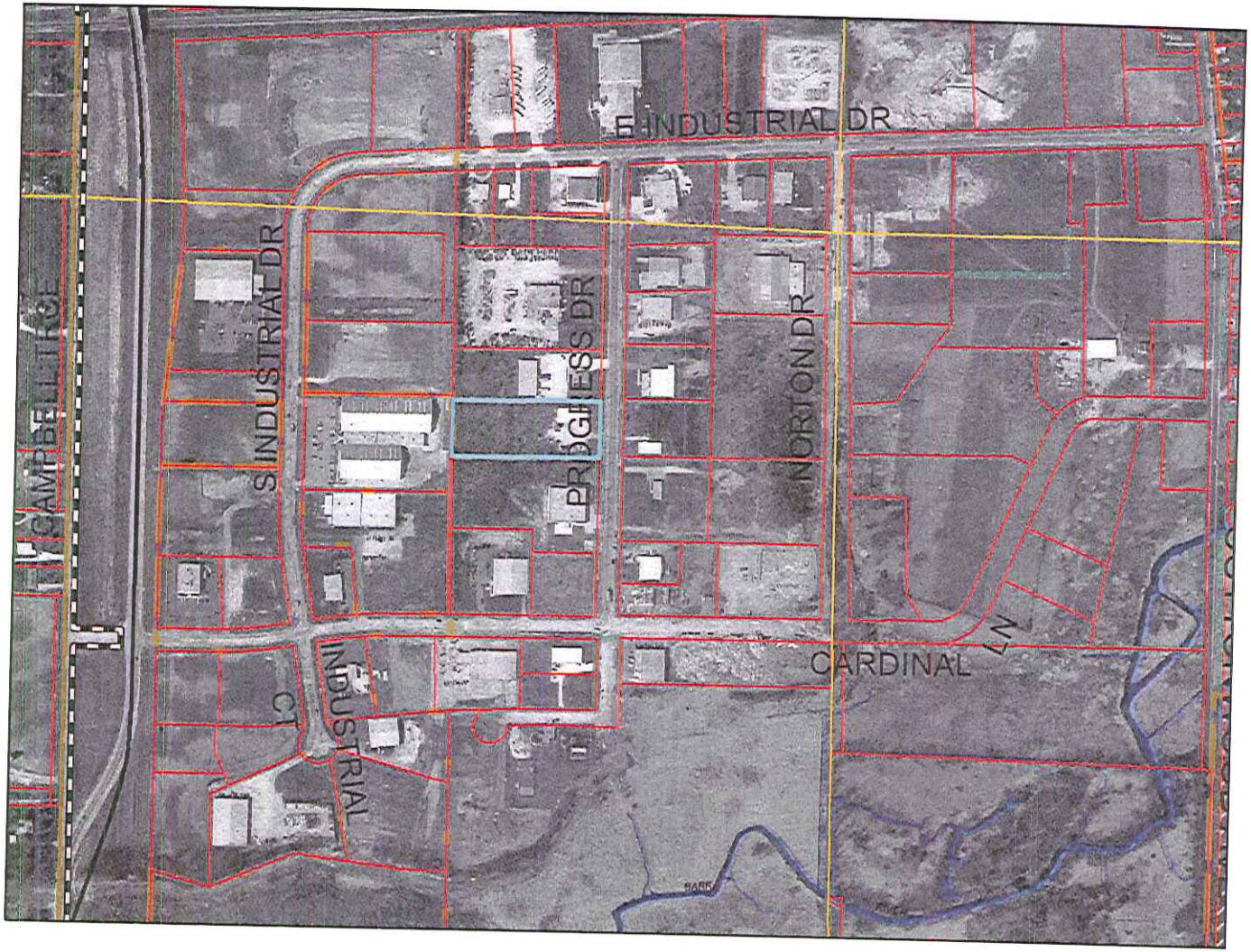
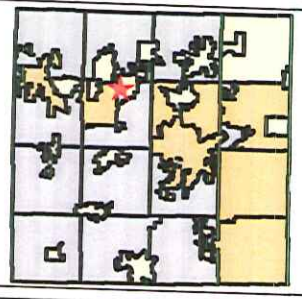
WAUKESHA COUNTY
Internet Mapping Site

Hartland Well #3, 1980





Legend

Street Centerlines (Basemap)
Road Classification
County
Interstate
Interstate Ramp
State
State Ramp
US
US Ramp
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Parcels
Shared Interest Parcels
Assessor Plat
Condo Plat
CSM
Subdivision Plat
Lakes and Rivers
Streams and Creeks
Waukesha County 1989
Value
High : 255
Low : 37

N

0 575 1150 1725 ft.

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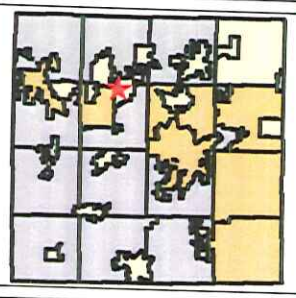
Map Generated: Jul 1, 2009

WAUKESHA COUNTY
Internet Mapping Site

Hartland Well #3, 1990



Legend

Street Centerlines (Basemap)
Road Classification
- County
- Interstate
- Interstate Ramp
- State
- State Ramp
- US
- US Ramp
- Civil Division Boundaries
- Surrounding Counties
- PLSS Section Lines
- PLSS Quarter Section Lines
- Centerlines_Local
- Parcels
- Lakes and Rivers
- Streams and Creeks

Waukesha County 1990
Value
- High : 255
- Low : 3

0 1200 2400 3600 ft.

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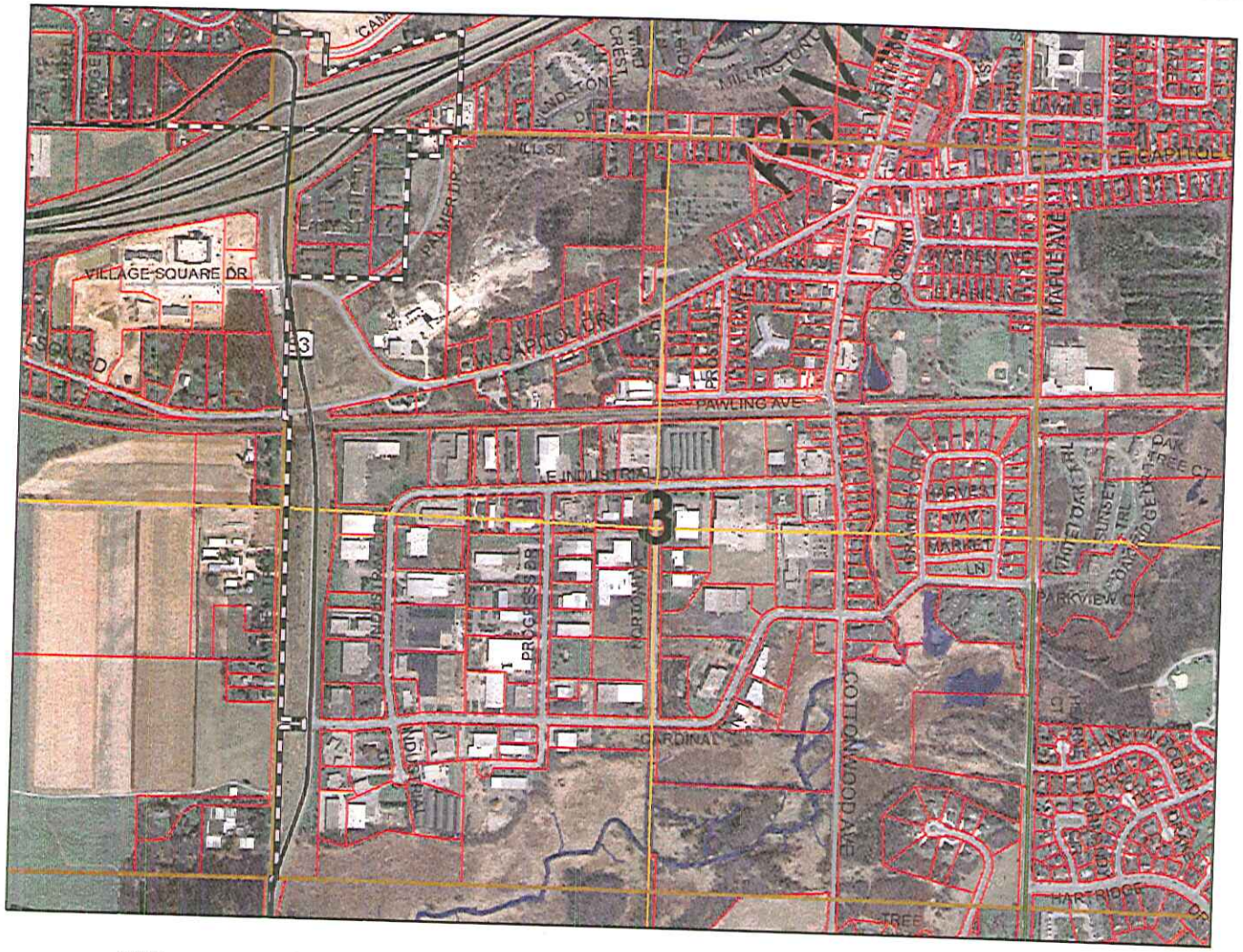
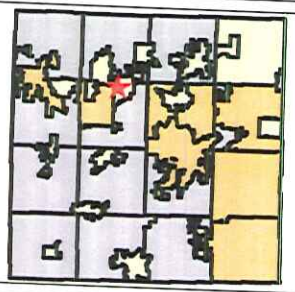
Map Generated: Apr 30, 2009

WAUKESHA COUNTY
Internet Mapping Site

Hartland Map #3, 2007



0 1200 2400 3600 ft.



Legend

Street Centerlines (Basemap)
Road Classification
County
Interstate
Interstate Ramp
State
State Ramp
US
US Ramp
Civil Division Boundaries
Surrounding Counties
PLSS Section Lines
PLSS Quarter Section Lines
Centerlines_Local
Parcels
Lakes and Rivers
Streams and Creeks
Waukesha County 2007
RGB
Red: Band_1
Green: Band_2
Blue: Band_3

N

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Map Generated: Apr 30, 2009

APPENDIX H

Photo Documentation Log

APPENDIX H

Photo Documentation Log

Photograph 1 Shows soil sample location SS-1 from MW-5 location.
Photograph 2 Shows soil sample location SS-2 on the Hartland Well #3 facility.
Photograph 3 Shows soil sample location SS-3 on the Hartland Well #3 facility.
Photograph 4 Shows soil sample location SS-4 on the Hartland Well #3 facility.
Photograph 5 Shows soil sample location SS-5 and SS-8 on the Hartland Well #3 facility.
Photograph 6 Shows soil sample location SS-6 from the location of MW-6.
Photograph 7 Shows soil sample location SS-7 from the location of MW-7.
Photograph 8 Shows groundwater sample location TW-1 on the Hartland Well #3 facility.
Photograph 9 Shows groundwater sample location TW-4 in Hartland right-of-way.
Photograph 10 Shows groundwater sample location PZ-23 in Hartland right-of-way.
Photograph 11 Shows groundwater sample location MW-22 in Hartland right-of-way.
Photograph 12 Shows groundwater sample location P-3 on the Hartland Well #3 facility.
Photograph 13 Shows groundwater sample location P-3A on the Hartland Well #3 facility.
Photograph 14 Shows groundwater sample location P-2 on adjacent property to northeast.
Photograph 15 Shows groundwater sample location P-2A on adjacent property to northeast.
Photograph 16 Shows groundwater sample location MW-5 in Hartland right-of-way.
Photograph 17 Shows groundwater sample location PZ-5 in Hartland right-of-way.
Photograph 18 Shows groundwater sample location MW-5 in Hartland right-of-way.
Photograph 19 Shows groundwater sample location of Municipal Well #3.
Photograph 20 Shows groundwater sample location PZ-7 in Hartland right-of-way.
Photograph 21 Shows groundwater sample location MW-6 in Hartland right-of-way.
Photograph 22 Shows groundwater sample location MW-7 in Hartland right-of-way.

Photograph 2. Soil sample SS-2 location.

Photograph 4. Soil sample SS-4 location.

Photograph 5. Soil sample location SS-5 and SS-8

Photograph 3. Soil sample SS-3 location.

Photograph 6. Shows location of SS-6 from MW-6 location.

Photograph 7. Shows location of SS-7 from MW-7 location.

Photograph 1, Location of soil sample SS-01.

Photograph 9. TW-4 groundwater sample location.

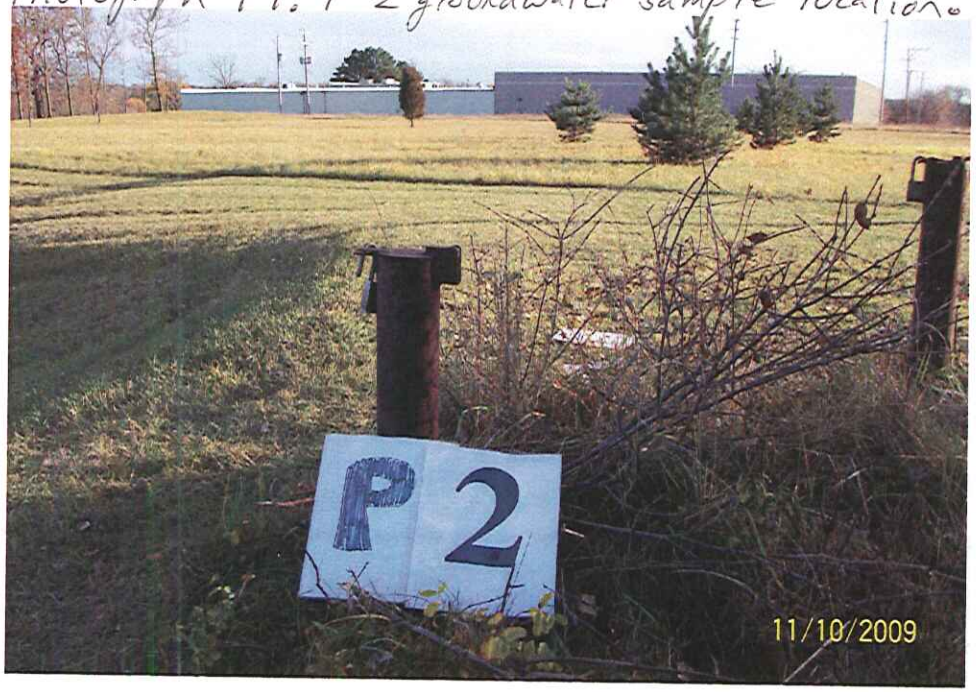
Photograph 10. PZ-23 groundwater sample location.

Photograph 8. TW-1 groundwater sample location.

Photograph 11. MW-22 groundwater sample location.

Photograph 12. P-3 groundwater sample location.

Photograph 14. P-2 groundwater sample location.



Photograph 13. P-3A groundwater sample location.

Photograph 17. PZ-5 groundwater sample location.

Photograph 15. P-2A groundwater sample location.

Photograph 18. MW-6 groundwater sample location.

Photograph 16. MW-5 groundwater sample location.

Photograph 20. PZ-7 groundwater sample location.

Photograph 21. MW-6 groundwater sample location.

Photograph 19. Municipal Well 3 groundwater sample.

Photograph 22. MW-7 groundwater sample location.

APPENDIX I

Analytical Results, Narratives, Tables and Reports

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: 11/30/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data for the following case:

SITE Name: Hartland Well #3 (WI)

Case Number: 39181 SDG Number: E3HD4

Number and Type of Samples: 21 Water Samples (VOA, SVOA, PEST, ARO)

Sample Numbers: E3HD4-D9, E0-E4, E7-E9, F0-F6

Laboratory: ALS DataChem Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-5J

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HD4
Laboratory: ALS DataChem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty-one (21) water samples labeled E3HD4 through E3HD9, E3HE0 through E3HE4, E3HE7 through E3HE9 and E3HF0 through E3HF6, were shipped to ALS DataChem Laboratories located in Salt Lake City, UT. The samples were collected on November 10, 2009, and received on November 12, 2009. All volatile vials arrived at correct shipping temperature. The semivolatile and pesticide containers for E3HD8 and E3HF1 arrived outside of the temperature range. All samples arrived intact except for samples E3HD4, E3HD8, E3HE7 and E3HF1. There was enough sample volume for samples E3HD4, E3HD8 and E3HE7 to perform the extractions and analyses. There was not enough sample volume for sample E3HF1 to perform the extractions and analyses for pesticides, aroclors and semivolatiles. The laboratory was given permission to extract and analyze the sample at a reduced volume. All samples were analyzed for volatiles compounds but only 19 samples; E3HD4 through E3HD9, E3HE0 through E3HE4, E3HE7 through E3HE9, E3HF0 through E3HF2 and E3HF5 through E3HF6 were analyzed for the semivolatiles, pesticides and aroclors compounds.

All samples were analyzed according to CLP SOW SOM01.2 and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.4).

Sample E3HD4 was designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

E3HF1 and E3HF2 were identified as field blanks. E3HF3 and E3HF4 were identified as trip blanks. No samples were identified as field duplicates.

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HD4
Laboratory: ALS DataChem

1. HOLDING TIME

No problems found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found.

3. CALIBRATION

The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Non-detected compounds are qualified "R".

1,4-Dioxane
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF3, E3HF4, E3HF5, E3HF6, VBLKW1, VBLKW2, VHBLKW1

The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRFs) criteria. Non-detected compounds are not qualified.

1,4-Dioxane-d8
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF3, E3HF4, E3HF5, E3HF6, VBLKW1, VBLKW2, VHBLKW1

The following volatile samples are associated with a CCV with relative response factors (RRFs) outside criteria. Non-detected compounds are qualified "R".

1,4-Dioxane
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF3, E3HF4, E3HF5, E3HF6, VBLKW1, VBLKW2, VHBLKW1

The following volatile samples are associated with a CCV in which a DMC did not meet relative response factor (RRF) criteria. Non-detected compounds are not qualified.

1,4-Dioxane-d8
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF3, E3HF4, E3HF5, E3HF6, VBLKW1, VBLKW2, VHBLKW1

The following volatile samples are associated with an opening CCV percent difference (%D) outside criteria. Non-detected compounds are qualified "UJ".

1,1,2,2-Tetrachloroethane
E3HD4, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HF3, E3HF4, VBLKW1

The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified "J". Non-detected compounds are not qualified.

Naphthalene
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE0DL, E3HE1, E3HE1DL, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF5, E3HF5DL, E3HF6, E3HF6DL, SBLK32

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Carbon disulfide
E3HE3, E3HF0

The following semivolatile samples have analyte concentrations reported below the CRQL. The associated field blank concentration is less than the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Naphthalene
E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HE0, E3HE2, E3HE3, E3HE7, E3HE8, E3HE9, E3HF0, E3HF5, E3HF6

Caprolactam
E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0

Diethylphthalate
E3HD6, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF5, E3HF6

The following pesticide samples have analyte concentrations reported below the CRQL. The associated field blank concentration is less than the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Endrin
E3HD6, E3HD9, E3HE7, E3HE8, E3HE9, PLCSW1

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Non-detected compounds are not qualified. 1,4-Dioxane is qualified "R" because all calibration criteria were not met.

E3HD4MS
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

E3HD4MSD
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

E3HD7, E3HD8, E3HD9, E3HE1, E3HE3, E3HE4, E3HE8, E3HE9, E3HF1, E3HF5, E3HF6
1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

E3HE0
cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

E3HE2
1,4-Dioxane, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E3HE0, E3HE1, E3HF6
2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol

E3HF5
2-Methylphenol, 4-Methylphenol, 2,4-Dimethlyphenol, 2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol

The following diluted semivolatile samples with dilution factors greater than 5 have deuterated monitoring compound recovery above the upper limit of the criteria window. Detected and non-detected compounds are not qualified.

E3HE0DL
Hexachlorobenzene, Atrazine, Phenanthrene, Anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HE1DL, E3HF5DL
Hexachlorobenzene, Atrazine, Phenanthrene, Anthracene

The following diluted semivolatile samples with dilution factors greater than 5 have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected and non-detected compounds are not qualified.

E3HE0DL
2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol

E3HE1DL
2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline 4,6-Dinitro-2-methylphenol

E3HF5DL
Isophorone, 2-Nitrophenol, 2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol

E3HF6DL
4,6-Dinitro-2-methylphenol

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E3HD4 was designated by the samplers to be used for laboratory QC, i.e. matrix spike / matrix spike duplicate analyses.

The following semivolatile matrix spike duplicate sample has a percent recovery greater than the upper acceptance criteria. Detected compounds in the unspiked sample are not qualified because the percent recovery is less than or equal to 100%. Non-detected compounds are not qualified.

E3HD4MSD
4-Nitrophenol

The following pesticide matrix spike/matrix spike duplicate samples have percent recoveries greater than or equal to the expanded lower acceptance limit but less than the primary lower acceptance limit. The compound was not detected in the un-spiked sample. The non-detected compound in the un-spiked sample is qualified "UJ".

E3HD4MS
Endrin

6B. LABORATORY CONTROL SAMPLE

No problems found.

7. FIELD BLANK AND FIELD DUPLICATE

E3HF1 and E3HF2 were identified as field blanks for volatiles and aroclors. E3HF3 and E3HF4 were identified as trip blanks for volatiles. No problems found.

E3HF1 and E3HF2 were identified as field blanks for semivolatiles and pesticides. Results are summarized in the following tables:

	E3HF1	E3HF2
Semivolatile analytes:	µg/L	µg/L
Benzaldehyde	0.67	0.52
Napththalene	3.6	1.9
Caprolactam	0.52	1.1
Diethylphthalate	0.48	0.34
# of SVOA TICs	0	0

	E3HF1	E3HF2
Pesticide analytes:	µg/L	µg/L
Endrin	0.0026	0

No samples were identified as field duplicates.

8. INTERNAL STANDARDS

No problems found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SV, Pesticide and aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E3HD6, E3HD7
Trichloroethene

E3HD8, E3HF0
Toluene

E3HD9, E3HE8, E3HE9
Trichloroethene, Toluene

E3HE0, E3HE1, E3HE3, E3HE7, E3HF6
Tetrachloroethene

E3HE2
Chloroform, Trichloroethene, Bromodichloromethane

E3HE4
cis-1,2-Dichloroethene, Trichloroethene

VBLKW2
Carbon disulfide

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E3HD5, E3HD8, E3HD9
Bis(2-ethylhexyl)phthalate

E3HD6
4-Chloro-3-methylphenol, 2-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Bis(2-ethylhexyl)phthalate

E3HD7
Phenol, Bis(2-chloroethyl)ether, 2-Chlorophenol, 2,2'-Oxybis(1-chloropropane), Nitrobenzene, 2-Nitrophenol, Bis(2-chloroethoxy)methane, 4-Chloro-3-methylphenol, 2-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, 4-Bromophenyl-phenylether, Phenanthrene, Anthracene, Bis(2-ethylhexyl)phthalate

E3HE0
Nitrobenzene, 2-Nitrophenol, 4-Chloro-3-methylphenol, 2,4,5-Trichlorophenol, Di-n-butylphthalate, Bis(2-ethylhexyl)phthalate

E3HE0DL
3,3'-Dichlorobenzidine, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HE1
Phenol, 4-Chloro-3-methylphenol, Acenaphthene, Di-n-butylphthalate, Bis(2-ethylhexyl)phthalate

E3HE2
Phenol, 2-Chlorophenol, 4-Chloro-3-methylphenol, Acenaphthene, Bis(2-ethylhexyl)phthalate

E3HE3
Phenol, 2-Chlorophenol, Nitrobenene, 2-Nitrophenol, 4-Chloro-3-methylphenol, 2-Methylnaphthalene, 2,4,6-Trichlorophenol, Acenaphthene, Dibenzofuran, Bis(2-ethylhexyl)phthalate

E3HE4
Phenol, Bis(2-ethylhexyl)phthalate

E3HE7
Nitrobenzene

E3HF0, E3HF6
Di-n-butylphthalate, Bis(2-ethylhexyl)phthalate

E3HF1, E3HF2
Benzaldehyde, Naphthalene, Caprolactam, Diethylphthalate

E3HF5
Phenol, Di-n-butylphthalate, Bis(2-ethylhexyl)phthalate

A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified "NJ".

E3HD6
CAS NO. 134-62-3 Diethyltoluamide

E3HE0
CAS NO. 4792-15-8 Pentaethylene glycol

E3HE1
CAS NO. 1786-94-3 3,6,9,12,15-Pentaoxanonadecan-1-01

A library search indicates a match below 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified "J".

E3HE0
Chlorinated aromatic @ 6.13; Unknown oxyhydrocarbon @ 13.01; Unknown @ 13.73; Unknown @ 14.59; Unknown aromatic @ 14.68; Unknown @ 15.99; Unknown @ 16.08; Unknown @ 17.36

E3HE0DL
Polycyclic hydrocarbon @ 3.93

E3HE1
Chlorinated aromatic @ 6.14; Unknown oxyhydrocarbon @ 13.00; Unknown oxyhydrocarbon @ 13.49; Unknown @ 14.60; Unknown @ 14.69; Unknown @ 15.51; Unknown @ 15.82; Unknown @ 24.57

E3HE4
Unknown oxyhydrocarbon @ 13.62; Unknown oxyhydrocarbon @ 15.94

E3HF5
Brominated compound @ 5.25; Unknown @ 5.48; Chlorinated aromatic @ 6.15; Unknown @ 9.34; Unknown @ 11.33; Unknown oxyhydrocarbon @ 12.99; Unknown @ 13.48; Unknown @ 14.58; Unknown @ 14.70; Polycyclic hydrocarbon @ 14.83; Unknown @ 14.96; Unknown @ 15.17; Unknown @ 15.37; Unknown @ 15.51; Unknown @ 15.82; Polycyclic hydrocarbon @ 16.64; Unknown @ 17.36; Unknown @ 17.48; Unknown @ 17.75; Unknown @ 24.52

E3HF6
Chlorinated aromatic @ 6.09; Unknown @ 11.35; Unknown @ 12.99; Unknown @ 13.48; Unknown @ 14.59; Unknown @ 14.69; Unknown @ 14.96; Unknown @ 15.50; Unknown @ 15.58; Unknown @ 15.82; Polycyclic hydrocarbon @ 16.00; Unknown @ 16.26; Unknown @ 17.36

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E3HD4MS, E3HD4MSD
4,4'-DDD, Endrin ketone

E3HD5, E3HD6, E3HE1, E3HE3
beta-BHC

E3HE0, E3HF5
4,4'-DDE

E3HE9
4,4'-DDT

E3HF1
Endrin

E3HF6
Dieldrin

PLCSW1
gamma-BHC, Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, gamma-Chlordane

The relative percent difference between analyte results for the following pesticide samples are greater than or equal to 25%. Detected compounds are qualified "J".

E3HD4MS, E3HD4MSD
4,4'-DDD, 4,4'-DDT, Endrin ketone

PLCSW1
4,4'-DDE

The relative percent difference between analyte results for the following pesticide samples is greater than 25% and the sample value is less than 25% of the CRQL. Detected compounds are qualified "U" as false positives. Reported sample concentrations have been elevated to the CRQL.

E3HD4
beta-BHC, Methoxychlor

E3HD4MS
delta-BHC, 4,4'-DDE, Endrin aldehyde

E3HD4MSD
4,4'-DDE, Endrin aldehyde

E3HD5, E3HD6
delta-BHC, Endrin aldehyde

E3HD7, E3HE8
beta-BHC, Endrin aldehyde

E3HD8
beta-BHC, 4,4'-DDD, Endrin aldehyde

E3HD9
Dieldrin, Endrin aldehyde

E3HE0, E3HE4
beta-BHC, delta-BHC

E3HE1
delta-BHC, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin ketone

E3HE2
beta-BHC, delta-BHC, Endrin

E3HE3, E3HF1
delta-BHC

E3HE9
beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin

E3HF0
beta-BHC, delta-BHC, Endrin aldehyde

E3HF2
beta-BHC, Heptachlor, 4,4'-DDE, Endrin, 4,4'-DDT, Methoxychlor

E3HF5
beta-BHC, delta-BHC, Heptachlor, Dieldrin, Endosulfan sulfate, Methoxychlor

E3HF6
beta-BHC, delta-BHC, Heptachlor, Endosulfan sulfate

PBLKW1
Endrin aldehyde

The following Aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

ALCSW1
Aroclor-1016, Aroclor-1262

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide and aroclor analyses were acceptable.

12. ADDITIONAL INFORMATION

The following semivolatile samples have compound concentrations which exceed the instruments calibration range. The detected results are qualified "J". The results from the diluted analyses should be considered the final concentrations for the affected compounds.

E3HE0, E3HE1, E3HF5, E3HF6
Caprolactam

After comparing the semivolatile chromatograms for the TICs identified as Unknown @ 15.83 ± 0.06 in samples E3HE1, E3HF5, E3HF6 to CAS NO. 4792-15-8 Pentaethylene glycol in sample E3HE0, the Reviewer concluded that the same compound was being described in each sample. Copies of the chromatograms are enclosed.

After comparing the semivolatile chromatograms for the TICs identified as Unknown @ 17.37 ± 0.06 in samples E3HE0, E3HF5, E3HF6 to CAS NO. 1786-94-3 3,6,9,12,15-Pentaoxanonadecan-1-0l in sample E3HE1, the Reviewer concluded that the same compound was being described in each sample. Copies of the chromatograms are enclosed.

The following semivolatile results were not rounded correctly. The results should have been rounded up. Reported results were corrected for these discrepancies.

E3HD7
Phenol, Bis(2-chloroethoxy)methane, 2,4,5-Trichlorophenol, Anthracene

E3HD8
Bis(2-ethylhexyl)phthalate

E3HE3
2-Chlorophenol

E3HF0
Di-n-butylphthalate

Peaks that are tentatively identified as straight-chain, branched, or cyclic alkanes, and are alone or part of an alkane series, shall be reported as "total alkanes" on Form I SV-TIC. An alkane is defined as any hydrocarbon with only C-H and C-C single bonds. The following semivolatile samples had TICs considered to be alkanes by the Reviewer and were removed from the TIC report.

E3HE0, E3HE1, E3HF5

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HD4
Laboratory: ALS DataChem

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

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16:57 Fri, Nov 27, 2009

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HD6 Location=MW-5 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
134-62-3	Diethyltoluamide	9.6253	2.2405	ug/L	JN

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16:57 Fri, Nov 27, 2009

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HE0 Location=MW-9 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	6.5038	ug/L	J
	Chlorinated aromatic	6.1349	15.5956		J
	Unknown oxyhydrocarbon	13.0064	7.3767		J
	Unknown	13.7324	2.0823		J
	Unknown	14.5913	12.6946		J
	Unknown aromatic	14.6834	5.5328		J
4792-15-8	Pentaethylene glycol	15.8286	15.9844		JN
	Unknown	15.9922	3.6221		J
	Unknown	16.0843	2.5628		J
	Unknown	17.3624	5.0058		J

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16:57 Fri, Nov 27, 2009

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HE0DL Location=No TR data Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Polycyclic hydrocarbon	3.9304	112.5904	ug/L	JD

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Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HE1 Location=P-2 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	22.0893	ug/L	J
	Chlorinated aromatic	6.1392	13.8626		J
	Unknown oxyhydrocarbon	13.0005	10.2892		J
	Unknown oxyhydrocarbon	13.4913	4.8191		J
	Unknown	14.5957	11.2486		J
	Unknown	14.6877	7.9122		J
	Unknown	15.5057	4.6216		J
	Unknown	15.8227	8.6432		J
1786-94-3	3,6,9,12,15-Pentaoxanonadecan-1-ol	17.3668	7.2071		JN
	Unknown	24.5655	2.4332		J

National Functional Guidelines Report # 9

16:57 Fri, Nov 27, 2009

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HE4 Location=P-3A Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown oxyhydrocarbon	13.6202	3.9133	ug/L	J
	Unknown oxyhydrocarbon	15.9414	2.975		J

National Functional Guidelines Report # 9

16:57 Fri, Nov 27, 2009

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HF5 Location=TW-1 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	13.1887	ug/L	J
	Brominated compound	5.2491	9.9674		J
	Unknown	5.4843	2.7601		J
	Chlorinated aromatic	6.1489	15.3306		J
	Unknown	9.3392	2.7362		J
	Unknown	11.3332	4.6522		J
	Unknown oxyhydrocarbon	12.9898	6.431		J
	Unknown	13.4806	7.3883		J
	Unknown	14.5849	7.4577		J
	Unknown	14.6974	11.4648		J
	Polycyclic hydrocarbon	14.8303	2.0094		J
	Unknown	14.9633	5.2756		J
	Unknown	15.1678	2.0562		J
	2-Indolyl-3-phenylacrylonitrile	15.3723	2.1421		J
	Unknown	15.5052	2.9061		J
	Unknown	15.8222	8.3484		J
	Polycyclic hydrocarbon	16.6402	2.0962		J
	Unknown	17.356	4.1125		J
	Unknown	17.4787	2.1174		J
	Unknown	17.7548	2.0759		J
	Unknown	24.5241	4.5515		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HF6 Location=TW-4 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Chlorinated aromatic	6.0882	14.1936	ug/L	J
	Unknown	11.3543	2.4494		J
	Unknown	12.9904	6.0342		J
	Unknown	13.4812	4.9252		J
	Unknown	14.5856	6.0392		J
	Unknown	14.6878	6.7045		J
	Unknown	14.9639	2.2357		J
	Unknown	15.4956	3.0212		J
	Unknown	15.5774	3.0601		J
	Unknown	15.8228	10.9148		J
	Polycyclic hydrocarbon	15.9967	2.4251		J
	Unknown	16.2625	3.5294		J
	Unknown	17.3567	4.1487		J

ESAT Controlled Number: ESAT5.17.01014 - pg 8 FEB 10

DATE: February 8, 2010

Wisconsin Department of Natural Resources
ATTN: **Mr. John Krahling**
Bureau of Solids Waste Mgmt. GEF-2
101 South Webster Street (RR/3)
Madison, WI 53707-7921

SITE NAME: Hartland Well #3 (WI)

Case	Lab	Samples	SDG	Matrix
39181	SVL Analytical	19	ME3HD4	water

Analysis: metals and cyanide

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Chicago Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat A. Joyner
Data Coordinator
ESAT Region 5 - **Techlaw Inc.**

Controlled Document

ESAT5.15.00411
aCA
2-5-10

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 2/3/10

SUBJECT: Review of Data
Received for review on 11/25/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data by CADRE for the following case:

SITE NAME: Hartland Well #3 (WI)

CASE NUMBER: 39181 **SDG NUMBER:** ME3HD4

Number and Type of Samples: 19 waters

Sample Numbers: ME3HD4-D9, E0-E4, E7-E9, F0-F2, F5-F6

Laboratory: SVL Analytical **Hrs. for Review:** ~12.5

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nineteen (19) water samples, numbered ME3HD4-D9, E0-E4, E7-E9, F0-F2, F5-F6, were collected on November 10, 2009. The lab received the samples on November 12, 2009 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS) procedure.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Antimony
ME3HD4

Arsenic
ME3HD6, ME3HD7, ME3HD8, ME3HE2, ME3HE8

Cobalt
ME3HD4, ME3HD6, ME3HD7, ME3HD9, ME3HE0, ME3HE1, ME3HE2, ME3HE3, ME3HE4, ME3HE7, ME3HF2, ME3HF5, ME3HF6

Copper
ME3HD5, ME3HD6, ME3HD7, ME3HD8, ME3HD9, ME3HE0, ME3HE1, ME3HE2, ME3HE3, ME3HE4, ME3HE7, ME3HE8, ME3HE9, ME3HF0, ME3HF2, ME3HF5, ME3HF6

Manganese
ME3HE0, ME3HE1, ME3HE3, ME3HF2, ME3HF5, ME3HF6

Silver
ME3HD4, ME3HE1

Vanadium
ME3HD6, ME3HD7, ME3HD8, ME3HD9, ME3HE0, ME3HE2, ME3HE8, ME3HE9, ME3HF0, ME3HF1, ME3HF2, ME3HF5, ME3HF6

Zinc
ME3HD5, ME3HD6, ME3HD7, ME3HD8, ME3HD9, ME3HE0, ME3HE1, ME3HE2, ME3HE3, ME3HE4, ME3HE8, ME3HE9, ME3HF0, ME3HF2

Cyanide
ME3HD4, ME3HD5, ME3HD6, ME3HD7, ME3HD8, ME3HD9, ME3HE0, ME3HE1, ME3HE2, ME3HE3, ME3HE4, ME3HE7, ME3HE8, ME3HE9, ME3HF0, ME3HF1, ME3HF2, ME3HF5, ME3HF6

The following inorganic samples are associated with a field blank concentration which is greater than the MDL but less than the CRQL. The sample concentration is greater than the MDL but less than five times the blank concentration. ME3HF1 and ME3HF2 are identified as field blanks.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Chromium

ME3HD4, ME3HD7, ME3HD9, ME3HF5, ME3HF6

Lead

ME3HD4, ME3HD5, ME3HD6, ME3HD7, ME3HD8, ME3HD9, ME3HE0, ME3HE1, ME3HE2, ME3HE3, ME3HE4, ME3HE7, ME3HE8, ME3HE9, ME3HF0

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples. No samples were identified as field duplicates.

6. ICP ANALYSIS:

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which concentration values greater than 120% recovery were obtained.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Barium

ME3HF1, ME3HF2

Cobalt

ME3HD5, ME3HD8, ME3HE8, ME3HE9, ME3HF0

Manganese

ME3HD4, ME3HD6, ME3HD7, ME3HD9, ME3HE2, ME3HE4, ME3HE7, ME3HE8, ME3HE9, ME3HF0

Zinc

ME3HD4, ME3HE7, ME3HF5, ME3HF6

No defects were found for the tune, internal standards or serial dilution sample.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Arsenic
ME3HE3

Barium
ME3HF1, ME3HF2

Cadmium
ME3HD5, ME3HE0, ME3HE1, ME3HE2, ME3HE4, ME3HF5, ME3HF6

Chromium
ME3HF2

Lead
ME3HF2

Selenium
ME3HD4, ME3HD5, ME3HD6, ME3HD7, ME3HD8, ME3HD9, ME3HE0, ME3HE1, ME3HE2, ME3HE3, ME3HE4, ME3HE7, ME3HE8, ME3HE9, ME3HF0, ME3HF5, ME3HF6

Thallium
ME3HD4

Vanadium
ME3HE1

All data, except those qualified above, are acceptable.

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case #: 39181 SDG : ME3HD4
Site : HARTLAND WELL #3
Lab. : SVL
Reviewer : S. CONNET
Date : 2/3/2010

Sample Number :	ME3HF1		ME3HF2		ME3HF5		ME3HF6			
Sampling Location :	R-01		R-02		TW-1		TW-4			
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009			
Time Sampled :										
%Solids :	0.0		0.0		0.0		0.0			
Dilution Factor :	1.0		1.0		1.0		1.0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	2.0	U	2.0	U	2.0	U	2.0	U		
ARSENIC	1.0	U	1.0	U	1.0	U	1.0	U		
BARIUM	0.039	J+	0.14	J+	90.9		55.1			
BERYLLIUM	1.0	U	1.0	U	1.0	U	1.0	U		
CADMIUM	1.0	U	1.0	U	0.12	J	0.087	J		
CALCIUM										
CHROMIUM	2.0	U	0.29	J	2.0	U	2.0	U		
COBALT	1.0	U	1.0	U	1.0	U	1.0	U		
COPPER	2.0	U	2.0	U	2.0	U	2.0	U		
IRON										
LEAD	1.0	U	0.018	J	1.0	U	1.0	U		
MAGNESIUM										
MANGANESE	1.0	U	1.0	U	1.0	U	1.0	U		
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U		
NICKEL	1.0	U	1.0	U	1.6		2.1			
POTASSIUM										
SELENIUM	5.0	U	5.0	U	1.1	J	0.92	J		
SILVER	1.0	U	1.0	U	1.0	U	1.0	U		
SODIUM										
THALLIUM	1.0	U	1.0	U	1.0	U	1.0	U		
VANADIUM	5.0	U	5.0	U	5.0	U	5.0	U		
ZINC	2.0	U	2.0	U	5.0	J+	6.1	J+		
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U		

Analytical Results (Qualified Data)

Case #: 39181 SDG : ME3HD4
Site : HARTLAND WELL #3
Lab. : SVL
Reviewer : S. CONNET
Date : 2/3/2010

Sample Number :	ME3HE4		ME3HE7		ME3HE8		ME3HE9		ME3HF0	
Sampling Location :	P-3A		PZ-23I		PZ-5		PZ-6		PZ-7	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
ARSENIC	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
BARIUM	76.5		80.5		69.7		69.4		86.0	
BERYLLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CADMIUM	0.10	J	1.0	U	1.0	U	1.0	U	1.0	U
CALCIUM										
CHROMIUM	2.0	U	2.0	U	2.0	U	2.0	U	7.8	
COBALT	1.0	U	1.0	U	1.0	J+	1.1	J+	1.5	J+
COPPER	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
IRON										
LEAD	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
MAGNESIUM										
MANGANESE	18.9	J+	30.2	J+	40.2	J+	46.6	J+	49.0	J+
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
NICKEL	2.3		2.6		2.7		3.6		9.3	
POTASSIUM										
SELENIUM	0.49	J	0.56	J	0.63	J	0.57	J	0.67	J
SILVER	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SODIUM										
THALLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
VANADIUM	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
ZINC	2.0	U	4.4	J+	2.1	U	2.1	U	2.3	U
CYANIDE	10.4	U	10.0	U	10.0	U	10.0	U	10.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : ME3HD4
Site : HARTLAND WELL #3
Lab. : SVL
Reviewer : S. CONNET
Date : 2/3/2010

Sample Number :	ME3HD9		ME3HE0		ME3HE1		ME3HE2		ME3HE3	
Sampling Location :	MW-8		MW-9		P-2		P-2A		P-3	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
ARSENIC	1.0	U	1.0	U	1.0	U	1.0	U	0.51	J
BARIUM	62.0		103		105		68.8		102	
BERYLLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CADMIUM	1.0	U	0.30	J	0.31	J	0.19	J	1.0	U
CALCIUM										
CHROMIUM	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
COBALT	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
COPPER	2.0	U	2.0	U	2.0	U	2.4	U	2.0	U
IRON										
LEAD	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
MAGNESIUM										
MANGANESE	4.3	J+	1.0	U	1.0	U	4.7	J+	1.0	U
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
NICKEL	1.8		1.8		4.3		1.6		1.8	
POTASSIUM										
SELENIUM	0.85	J	1.1	J	1.4	J	0.68	J	1.2	J
SILVER	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SODIUM										
THALLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
VANADIUM	5.0	U	5.0	U	0.48	J	5.0	U	5.0	U
ZINC	2.0	U	2.2	U	2.1	U	2.8	U	2.6	U
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : ME3HD4
Site : HARTLAND WELL #3
Lab. : SVL
Reviewer : S. CONNET
Date : 2/3/2010

Number of Soil Samples : 0
Number of Water Samples : 19

Sample Number :	ME3HD4		ME3HD5		ME3HD6		ME3HD7		ME3HD8	
Sampling Location :	MS-3		MW-22		MW-5		MW-6		MW-7	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
ARSENIC	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
BARIUM	85.8		756		57.7		60.9		71.8	
BERYLLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CADMIUM	1.0	U	0.10	J	1.0	U	1.0	U	1.0	U
CALCIUM										
CHROMIUM	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
COBALT	1.0	U	3.4	J+	1.0	U	1.0	U	1.8	J+
COPPER	4.4		2.4	U	2.1	U	2.0	U	2.0	U
IRON										
LEAD	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
MAGNESIUM										
MANGANESE	7.1	J+	1270		61.6	J+	3.0	J+	155	
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
NICKEL	2.8		4.0		2.9		2.2		4.3	
POTASSIUM										
SELENIUM	1.2	J	0.39	J	0.59	J	0.86	J	0.80	J
SILVER	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SODIUM										
THALLIUM	0.14	J	1.0	U	1.0	U	1.0	U	1.0	U
VANADIUM	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
ZINC	9.1	J+	3.5	U	2.4	U	2.0	U	2.0	U
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

W9K0290

Case No:	39181
DAS No:	
SDG No:	ME3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795254
Shipped to:	SVL Analytical, Inc. One Government Gulch Kellogg ID 83837 (208) 784-1258

Chain of Custody Record

Sampler Signature: Jim DeWitte

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jim DeWitte	11/11/09 16:25	John Kuehling	11-11-09 16:30
2 John Hnat	11.11.09 16:25	John Kuehling	11-11-09 16:30
3 Dave Volkert	11.11.09 16:25	John Kuehling	11-11-09 16:30
4 John Kuehling	11-11-09 16:30	P. Jones	11/12/2009 11:30

For Lab Use Only

Lab Contract No:	EPW-08068
Unit Price:	24420
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME3HD4	Municipal Water Supply/ Dave Volkert	L/G	CN (14), ICP-MS-LOW (14)	5C-093076 (NaOH), 5C-093077 (HNO3) (2)	MS-3	S: 11/10/09	10:00	E3HD4	
ME3HE1	Ground Water/ Dave Volkert	L/G	CN (14), ICP-MS-LOW (14)	5C-093139 (NaOH), 5C-093140 (HNO3) (2)	P-2	S: 11/10/09	11:27	E3HE1	
ME3HE3	Ground Water/ Dave Volkert	L/G	CN (14), ICP-MS-LOW (14)	5C-093157 (NaOH), 5C-093158 (HNO3) (2)	P-3	S: 11/10/09	14:41	E3HE3	
ME3HE4	Ground Water/ Dave Volkert	L/G	CN (14), ICP-MS-LOW (14)	5C-093166 (NaOH), 5C-093167 (HNO3) (2)	P-3A	S: 11/10/09	13:40	E3HE4	
ME3HE7	Ground Water/ John Hnat	L/G	CN (14), ICP-MS-LOW (14)	5C-093193 (NaOH), 5C-093194 (HNO3) (2)	PZ-23I	S: 11/10/09	12:41	E3HE7	
ME3HF5	Ground Water/ John Hnat	L/G	CN (14), ICP-MS-LOW (14)	5C-093253 (NaOH), 5C-093254 (HNO3) (2)	TW-1	S: 11/10/09	9:20	E3HF5	
ME3HF6	Ground Water/ John Hnat	L/G	CN (14), ICP-MS-LOW (14)	5C-093262 (NaOH), 5C-093263 (HNO3) (2)	TW-4	S: 11/10/09	10:52	E3HF6	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME3HD4	Additional Sampler Signature(s): John Hnat, Dave Volkert	Cooler Temperature Upon Receipt: 2.8°C	Chain of Custody Seal Number: 138394/138400
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CN = Cyanide, ICP-MS-LOW = ICP-MS-LOW

TR Number: 5-004435316-111109-0003

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

W9K0290

Case No:	39181
DAS No:	
SDG No:	ME3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795254
Shipped to:	SVL Analytical, Inc. One Government Gulch Kellogg ID 83837 (208) 784-1258

Chain of Custody Record

Sampler Signature: Jim Delwiche

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jim Delwiche	11/11/09 16:30	John Hanley	11-11-09 16:35
2 John Hnat	11.11.09 16:30	John Hanley	11-11-09 16:35
3 Dave Volkert	11.11.09 16:30	John Hanley	11-11-09 16:35
4 John Hanley	11-11-09 16:35	D Jones	11/12/2009 11:30

For Lab Use Only

Lab Contract No:	EPW-08068
Unit Price:	24420
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME3HD5	Ground Water/ John Hnat	L/G	CN (14), ICP-MS-LOW (14)	5C-093085 (NaOH), 5C-093086 (HNO3) (2)	MW-22	S: 11/10/09	11:56	E3HD5	
ME3HE0	Ground Water/ Dave Volkert	L/G	CN (14), ICP-MS-LOW (14)	5C-093130 (NaOH), 5C-093131 (HNO3) (2)	MW-9	S: 11/10/09	11:27	E3HE0	
ME3HE2	Ground Water/ John Hnat	L/G	CN (14), ICP-MS-LOW (14)	5C-093148 (NaOH), 5C-093149 (HNO3) (2)	P-2A	S: 11/10/09	14:29	E3HE2	
ME3HE8	Ground Water/ Jim Delwiche	L/G	CN (14), ICP-MS-LOW (14)	5C-093202 (NaOH), 5C-093203 (HNO3) (2)	PZ-5	S: 11/10/09	13:55	E3HE8	
ME3HE9	Ground Water/ Jim Delwiche	L/G	CN (14), ICP-MS-LOW (14)	5C-093211 (NaOH), 5C-093212 (HNO3) (2)	PZ-6	S: 11/10/09	11:58	E3HE9	
ME3HF2	Field QC/ Jim Delwiche	L/G	CN (14), ICP-MS-LOW (14)	5C-093238 (NaOH), 5C-093239 (HNO3) (2)	R-02	S: 11/10/09	14:42	E3HF2	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5.5°C	Chain of Custody Seal Number: 138397 / 138398
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CN = Cyanide, ICP-MS-LOW = ICP-MS-LOW

TR Number: 5-004435316-111109-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

W9K0290

Case No:	39181
DAS No:	
SDG No:	ME3HD4 L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795254
Shipped to:	SVL Analytical, Inc. One Government Gulch Kellogg ID 83837 (208) 784-1258

Chain of Custody Record

Sampler Signature: Jim Delwiche

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jim Delwiche	11/11 16:05	[illegible]	11-11-09 16:10
2 [illegible]	11-11-09 16:10	[illegible]	11/12/2009 11:30
3			
4			

For Lab Use Only

Lab Contract No:	EPW-08068
Unit Price:	24420
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME3HD6	Ground Water/ Jim Delwiche	L/G	CN (14), ICP-MS-LOW (14)	5C-093094 (NaOH), 5C-093095 (HNO3) (2)	MW-5	S: 11/10/09	16:07	E3HD6	
ME3HD7	Ground Water/ Jim Delwiche	L/G	CN (14), ICP-MS-LOW (14)	5C-093103 (NaOH), 5C-093104 (HNO3) (2)	MW-6	S: 11/10/09	11:27	E3HD7	
ME3HD8	Ground Water/ Jim Delwiche	L/G	CN (14), ICP-MS-LOW (14)	5C-093112 (NaOH), 5C-093113 (HNO3) (2)	MW-7	S: 11/10/09	10:19	E3HD8	
ME3HD9	Ground Water/ Jim Delwiche	L/G	CN (14), ICP-MS-LOW (14)	5C-093121 (NaOH), 5C-093122 (HNO3) (2)	MW-8	S: 11/10/09	11:27	E3HD9	
ME3HF0	Ground Water/ Jim Delwiche	L/G	CN (14), ICP-MS-LOW (14)	5C-093220 (NaOH), 5C-093221 (HNO3) (2)	PZ-7	S: 11/10/09	9:40	E3HF0	
ME3HF1	Field QC/ Jim Delwiche	L/G	CN (14), ICP-MS-LOW (14)	5C-093229 (NaOH), 5C-093230 (HNO3) (2)	R-01	S: 11/10/09	14:37	E3HF1	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.4°C	Chain of Custody Seal Number: 138395/138396
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CN = Cyanide, ICP-MS-LOW = ICP-MS-LOW

TR Number: 5-004435316-111109-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

SDG NARRATIVE

LAB NAME: SVL ANALYTICAL, INC.
LAB CODE: SVL
CONTRACT NO.: EP-W-08-068

SDG ME3HD4
CASE: 39181

SAMPLES WERE RECEIVED FOR ICP-MS METALS, HG AND CN ON NOVEMBER 12, 2009.
SAMPLE TAGS PRESENT.
COOLER TEMPERATURE INDICATOR BOTTLE WAS PRESENT.

TUNE CRITERIA: AVERAGE MEASURED MASS MUST BE WITHIN 0.1 amu OF THE ELEMENT MASS OVER THE RANGE OF 6 TO 210 amu. AVERAGE PEAK WIDTH AT 10% PEAK HEIGHT MUST BE 0.7amu ±0.1 amu PER MANUFACTURERS RECOMMENDATION.

ICP-MS EXAMPLE CALCULATION:

$$\text{Concentration (ug/L)} = C \times \frac{V_f}{V_i} \times DF$$

C = Instrument Value (ug/L)
V_f= Final digestion volume (mL)
V_i= Initial digestion volume (mL)
DF= Dilution factor

SAMPLE: ME3HD4 BARIUM

$$85.8088 \text{ ug/L} \times \frac{50 \text{ mL}}{50 \text{ mL}} \times 1 = 85.8 \text{ ug/L}$$

MERCURY EXAMPLE CALCULATION:

$$\text{Concentration (ug/L)} = C \times \frac{V_f}{V_i} \times DF$$

C = Instrument Value (ug/L)
V_f= Final digestion volume (mL)
V_i= Initial digestion volume (mL)
DF= Dilution factor

SAMPLE: ME3HD4S MERCURY

$$1.07 \text{ ug/L} \times \frac{50 \text{ mL}}{50 \text{ mL}} \times 1 = 1.0700 \text{ ug/L}$$

CYANIDE EXAMPLE CALCULATION:

SAMPLE: ME3HD4 CYANIDE

$$2.991300 \text{ ug/L} \times \frac{50 \text{ mL}}{50 \text{ mL}} \times 1 = 3.0 \text{ ug/L}$$

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NOV 2 5 2009

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COVER PAGE

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No: 39181 NRAS No.: SDG No: ME3HD4

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME3HD4	ME3HD4
ME3HD4D	ME3HD4D
ME3HD4S	ME3HD4S
ME3HD5	ME3HD5
ME3HD6	ME3HD6
ME3HD7	ME3HD7
ME3HD8	ME3HD8
ME3HD9	ME3HD9
ME3HE0	ME3HE0
ME3HE1	ME3HE1
ME3HE2	ME3HE2
ME3HE3	ME3HE3
ME3HE4	ME3HE4
ME3HE7	ME3HE7
ME3HE8	ME3HE8
ME3HE9	ME3HE9
ME3HF0	ME3HF0
ME3HF1	ME3HF1
ME3HF2	ME3HF2
ME3HF5	ME3HF5

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	NO	NO
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	NO	NO
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Kirby L. Gray Name: KIRBY L. GRAY

Date: 11/23/2009 Title: TECHNICAL DIRECTOR

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COVER PAGE

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No: 39181 NRAS No.: SDG No: ME3HD4

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME3HF6	ME3HF6

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	NO	NO
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	NO	NO
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Kirby L. Gray Name: KIRBY L. GRAY

Date: 11/23/2009 Title: TECHNICAL DIRECTOR

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1A-IN

INORGANIC ANALYSIS DATA SHEET

14

EPA SAMPLE NO.

ME3HD4

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HD4

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.65	J		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	85.8			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.70	J		MS
7440-48-4	Cobalt	0.21	J		MS
7440-50-8	Copper	4.4			MS
7439-92-1	Lead	0.16	J		MS
7439-96-5	Manganese	7.1			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.8			MS
7782-49-2	Selenium	1.2	J		MS
7440-22-4	Silver	0.066	J		MS
7440-28-0	Thallium	0.14	J		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	9.1			MS
57-12-5	Cyanide	3.0	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1A-IN

INORGANIC ANALYSIS DATA SHEET

15

EPA SAMPLE NO.

ME3HD5

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HD5

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	756			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.10	J		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	3.4			MS
7440-50-8	Copper	2.4			MS
7439-92-1	Lead	0.14	J		MS
7439-96-5	Manganese	1270			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.0			MS
7782-49-2	Selenium	0.39	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	3.5			MS
57-12-5	Cyanide	4.8	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

16

EPA SAMPLE NO.

ME3HD6

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HD6

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.68	J		MS
7440-39-3	Barium	57.7			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	0.79	J		MS
7440-50-8	Copper	2.1			MS
7439-92-1	Lead	0.10	J		MS
7439-96-5	Manganese	61.6			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.9			MS
7782-49-2	Selenium	0.59	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.53	J		MS
7440-66-6	Zinc	2.4			MS
57-12-5	Cyanide	4.4	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1A-IN

INORGANIC ANALYSIS DATA SHEET

17

EPA SAMPLE NO.

ME3HD7

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HD7

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.39	J		MS
7440-39-3	Barium	60.9			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.46	J		MS
7440-48-4	Cobalt	0.18	J		MS
7440-50-8	Copper	1.4	J		MS
7439-92-1	Lead	0.12	J		MS
7439-96-5	Manganese	3.0			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.2			MS
7782-49-2	Selenium	0.86	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.87	J		MS
7440-66-6	Zinc	1.2	J		MS
57-12-5	Cyanide	4.2	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

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INORGANIC ANALYSIS DATA SHEET

18

EPA SAMPLE NO.

ME3HD8

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HD8

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.50	J		MS
7440-39-3	Barium	71.8			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	1.8			MS
7440-50-8	Copper	1.9	J		MS
7439-92-1	Lead	0.02	J		MS
7439-96-5	Manganese	155			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.3			MS
7782-49-2	Selenium	0.80	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.72	J		MS
7440-66-6	Zinc	1.3	J		MS
57-12-5	Cyanide	2.9	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME3HD9

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HD9

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	62.0			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.42	J		MS
7440-48-4	Cobalt	0.18	J		MS
7440-50-8	Copper	1.5	J		MS
7439-92-1	Lead	0.15	J		MS
7439-96-5	Manganese	4.3			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.8			MS
7782-49-2	Selenium	0.85	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	1.0	J		MS
7440-66-6	Zinc	1.2	J		MS
57-12-5	Cyanide	5.3	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1A-IN

INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.

ME3HE0

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HE0

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	103			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.30	J		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	0.18	J		MS
7440-50-8	Copper	1.5	J		MS
7439-92-1	Lead	0.02	J		MS
7439-96-5	Manganese	0.13	J		MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.8			MS
7782-49-2	Selenium	1.1	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.68	J		MS
7440-66-6	Zinc	2.2			MS
57-12-5	Cyanide	2.8	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

21

EPA SAMPLE NO.

ME3HE1

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HE1

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	105			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.31	J		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	0.28	J		MS
7440-50-8	Copper	1.6	J		MS
7439-92-1	Lead	0.03	J		MS
7439-96-5	Manganese	0.23	J		MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.3			MS
7782-49-2	Selenium	1.4	J		MS
7440-22-4	Silver	0.035	J		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.48	J		MS
7440-66-6	Zinc	2.1			MS
57-12-5	Cyanide	5.4	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

22

EPA SAMPLE NO.

ME3HE2

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HE2

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.56	J		MS
7440-39-3	Barium	68.8			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.19	J		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	0.27	J		MS
7440-50-8	Copper	2.4			MS
7439-92-1	Lead	0.08	J		MS
7439-96-5	Manganese	4.7			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.6			MS
7782-49-2	Selenium	0.68	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.71	J		MS
7440-66-6	Zinc	2.8			MS
57-12-5	Cyanide	3.0	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

1A-IN

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME3HE3

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HE3

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.51	J		MS
7440-39-3	Barium	102			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	0.19	J		MS
7440-50-8	Copper	1.7	J		MS
7439-92-1	Lead	0.14	J		MS
7439-96-5	Manganese	0.22	J		MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.8			MS
7782-49-2	Selenium	1.2	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	2.6			MS
57-12-5	Cyanide	9.2	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.

ME3HE4

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HE4

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	76.5			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.10	J		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	0.35	J		MS
7440-50-8	Copper	0.83	J		MS
7439-92-1	Lead	0.11	J		MS
7439-96-5	Manganese	18.9			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.3			MS
7782-49-2	Selenium	0.49	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	1.7	J		MS
57-12-5	Cyanide	10.4			AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

25

EPA SAMPLE NO.

ME3HE7

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HE7

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	80.5			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	0.36	J		MS
7440-50-8	Copper	1.4	J		MS
7439-92-1	Lead	0.03	J		MS
7439-96-5	Manganese	30.2			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.6			MS
7782-49-2	Selenium	0.56	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	4.4			MS
57-12-5	Cyanide	2.9	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

26

EPA SAMPLE NO.

ME3HE8

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HE8

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.46	J		MS
7440-39-3	Barium	69.7			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	1.0			MS
7440-50-8	Copper	1.1	J		MS
7439-92-1	Lead	0.05	J		MS
7439-96-5	Manganese	40.2			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.7			MS
7782-49-2	Selenium	0.63	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.76	J		MS
7440-66-6	Zinc	2.1			MS
57-12-5	Cyanide	3.8	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

27

EPA SAMPLE NO.

ME3HE9

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HE9

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	69.4			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	1.1			MS
7440-50-8	Copper	0.89	J		MS
7439-92-1	Lead	0.16	J		MS
7439-96-5	Manganese	46.6			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	3.6			MS
7782-49-2	Selenium	0.57	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.37	J		MS
7440-66-6	Zinc	2.1			MS
57-12-5	Cyanide	3.7	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

28

EPA SAMPLE NO.

ME3HF0

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HF0

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	86.0			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	7.8			MS
7440-48-4	Cobalt	1.5			MS
7440-50-8	Copper	1.5	J		MS
7439-92-1	Lead	0.02	J		MS
7439-96-5	Manganese	49.0			MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	9.3			MS
7782-49-2	Selenium	0.67	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.91	J		MS
7440-66-6	Zinc	2.3			MS
57-12-5	Cyanide	3.5	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.

ME3HF1

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HF1

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	0.039	J		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	2.0	U		MS
7439-92-1	Lead	1.0	U		MS
7439-96-5	Manganese	1.0	U		MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.0	U		MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	1.1	J		MS
7440-66-6	Zinc	2.0	U		MS
57-12-5	Cyanide	5.0	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.

ME3HF2

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HF2

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	0.14	J		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.29	J		MS
7440-48-4	Cobalt	0.03	J		MS
7440-50-8	Copper	1.2	J		MS
7439-92-1	Lead	0.02	J		MS
7439-96-5	Manganese	0.08	J		MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.0	U		MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	1.0	J		MS
7440-66-6	Zinc	1.7	J		MS
57-12-5	Cyanide	7.3	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1A-IN

INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.

ME3HF5

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HF5

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	90.9			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.12	J		MS
7440-47-3	Chromium	0.69	J		MS
7440-48-4	Cobalt	0.16	J		MS
7440-50-8	Copper	1.1	J		MS
7439-92-1	Lead	1.0	U		MS
7439-96-5	Manganese	0.96	J		MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.6			MS
7782-49-2	Selenium	1.1	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.36	J		MS
7440-66-6	Zinc	5.0			MS
57-12-5	Cyanide	4.3	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

32

EPA SAMPLE NO.

ME3HF6

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Lab Sample ID: ME3HF6

Level (low/med): LOW Date Received: 11/12/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	55.1			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.09	J		MS
7440-47-3	Chromium	0.42	J		MS
7440-48-4	Cobalt	0.16	J		MS
7440-50-8	Copper	1.3	J		MS
7439-92-1	Lead	1.0	U		MS
7439-96-5	Manganese	0.30	J		MS
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.1			MS
7782-49-2	Selenium	0.92	J		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	0.47	J		MS
7440-66-6	Zinc	6.1			MS
57-12-5	Cyanide	3.8	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Antimony	0.895	J	0.212	J	0.205	J	0.119	J	2.000	U	MS
Arsenic	1.000	U	1.000	U	1.000	U	0.493	J	1.000	U	MS
Barium	10.000	U	10.000	U	0.026	J	10.000	U	10.000	U	MS
Cadmium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Chromium	2.000	U	2.000	U	2.000	U	2.000	U	2.000	U	MS
Lead	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Manganese	1.000	U	1.000	U	1.000	U	1.000	U	0.125	J	MS
Selenium	5.000	U	5.000	U	5.000	U	5.000	U	5.000	U	MS
Silver	1.000	U	0.045	J	0.065	J	0.046	J	1.000	U	MS
Thallium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Vanadium	5.000	U	5.000	U	5.000	U	0.729	J	5.000	U	MS
Zinc	2.000	U	2.000	U	2.000	U	2.000	U	0.771	J	MS

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Antimony			0.148	J							MS
Arsenic			0.529	J							MS
Barium			10.000	U							MS
Cadmium			1.000	U							MS
Chromium			2.000	U							MS
Lead			1.000	U							MS
Manganese			1.000	U							MS
Selenium			5.000	U							MS
Silver			0.063	J							MS
Thallium			1.000	U							MS
Vanadium			1.319	J							MS
Zinc			2.000	U							MS

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Cobalt	1.000	U	1.000	U	0.019	J	1.000	U	0.031	J	MS
Copper	2.000	U	2.000	U	2.000	U	2.000	U	0.847	J	MS
Nickel	1.000	U	1.000	U	1.000	U	1.000	U	0.071	J	MS

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cobalt			1.000	U							MS
Copper			2.000	U							MS
Nickel			1.000	U							MS

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Beryllium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS

USEPA-CLP

3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Beryllium	1.000	U	1.000	U	1.000	U					MS

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	CV

USEPA-CLP

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Mercury			0.200	U	0.200	U					CV

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Cyanide	1.196	J	1.170	J	1.084	J	1.083	J	3.080	J	AS

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cyanide			1.170	J	1.057	J	1.094	J			AS

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4B-IN

ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

ICP-MS Instrument ID: PE ICPMS DRC-E ICS Source: 0803/0803

Concentration Units: ug/L

Analyte	True		Found			
	Sol.A	Sol.AB	Sol.A	%R	Sol. AB	%R
Antimony	1.5	22.0	1.4	93	20.9	95
Arsenic	0.1	19.0	0.61	610	20.7	109
Barium	1.2	22.0	1.5	125	22.1	100
Cadmium	0.7	20.0	0.39	56	18.6	93
Chromium	21.0	40.0	22.6	108	43.8	110
Lead	4.0	25.0	4.1	102	22.5	90
Manganese	7.0	27.0	9.1	130	32.5	120
Selenium	0.3	19.0	0.31	103	20.1	106
Silver	0.0	18.0	0.084	0	17.9	99
Thallium	0.0	21.0	0.0072	0	19.1	91
Vanadium	0.5	19.0	-0.14	-28	21.5	113
Zinc	11.0	29.0	13.6	124	32.2	111

USEPA-CLP

4B-IN

ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

ICP-MS Instrument ID: PE ICPMS DRC-E ICS Source: 0803/0803

Concentration Units: ug/L

Analyte	True		Found			
	Sol.A	Sol.AB	Sol.A	%R	Sol. AB	%R
Cobalt	1.0	20.0	1.3	130	22.2	111
Copper	8.0	25.0	8.4	105	28.0	112
Nickel	6.0	24.0	6.2	103	26.0	108

USEPA-CLP

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME3HD4S

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	104.5249		0.6530	J	100.00	104		MS
Arsenic	75 - 125	40.1809		1.0000	U	40.00	100		MS
Barium	75 - 125	2105.1201		85.8088		2000.00	101		MS
Beryllium	75 - 125	48.9446		1.0000	U	50.00	98		MS
Cadmium	75 - 125	50.2535		1.0000	U	50.00	101		MS
Chromium	75 - 125	185.3012		0.6979	J	200.00	92		MS
Cobalt	75 - 125	451.0688		0.2140	J	500.00	90		MS
Copper	75 - 125	219.8616		4.4296		250.00	86		MS
Lead	75 - 125	19.3341		0.1609	J	20.00	96		MS
Manganese	75 - 125	475.6527		7.1406		500.00	94		MS
Mercury	75 - 125	1.0700		0.2000	U	1.00	107		CV
Nickel	75 - 125	439.1844		2.8006		500.00	87		MS
Selenium	75 - 125	12.0751		1.2128	J	10.00	109		MS
Silver	75 - 125	47.8034		0.0659	J	50.00	95		MS
Thallium	75 - 125	49.0602		0.1361	J	50.00	98		MS
Vanadium	75 - 125	490.4149		5.0000	U	500.00	98		MS
Zinc	75 - 125	488.6276		9.1411		500.00	96		MS
Cyanide	75 - 125	97.6922		2.9913		100.00	95		AS

Comments:

USEPA-CLP

6-IN

DUPLICATES

EPA SAMPLE NO.

ME3HD4D

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units: (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Antimony		0.6530	J	2.0000	U	200		MS
Arsenic		1.0000	U	1.0000	U			MS
Barium		85.8088		82.4504		4		MS
Beryllium		1.0000	U	1.0000	U			MS
Cadmium		1.0000	U	1.0000	U			MS
Chromium		0.6979	J	0.4002	J	54		MS
Cobalt		0.2140	J	0.1970	J	8		MS
Copper	2.0000	4.4296		4.0776		8		MS
Lead		0.1609	J	0.1065	J	41		MS
Manganese		7.1406		6.9972		2		MS
Mercury		0.2000	U	0.2000	U			CV
Nickel	1.0000	2.8006		2.2541		22		MS
Selenium		1.2128	J	0.8137	J	39		MS
Silver		0.0659	J	1.0000	U	200		MS
Thallium		0.1361	J	1.0000	U	200		MS
Vanadium		5.0000	U	0.5047	J	200		MS
Zinc	2.0000	9.1411		8.7953		4		MS
Cyanide		2.9913		5.1859	J	54		AS

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD4

Instrument Type: CV Instrument ID: Cetac M7500 Date: 01/07/2009

Preparation Method: CW1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Mercury	253.70	0.20	0.036

Comments: _____

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Instrument Type: AS Instrument ID: Alpkem FS3000 Date: 12/29/2008

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Cyanide	570.00	10	0.31

Comments:

79

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Instrument Type: AS Instrument ID: Alpkem FS3000 Date: 12/29/2008

Preparation Method: DW2

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Cyanide	570.00	10	1.5

Comments:

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

Instrument Type: MS Instrument ID: PE ICPMS DRC-E Date: 03/28/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Antimony	121.00	2	0.11
Arsenic	75.00	1	0.40
Barium	137.00	10	0.021
Beryllium	9.00	1	0.035
Cadmium	111.00	1	0.091
Chromium	52.00	2	0.21
Cobalt	59.00	1	0.012
Copper	63.00	2	0.044
Lead	208.00	1	0.028
Manganese	55.00	1	0.021
Nickel	60.00	1	0.073
Selenium	82.00	5	0.34
Silver	107.00	1	0.031
Thallium	205.00	1	0.045
Vanadium	51.00	5	0.43
Zinc	66.00	2	0.23

Comments:

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD4

Instrument Type: MS Instrument ID: PE ICPMS DRC-E Date: 03/23/2009

Preparation Method: HW3

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Antimony	121.00	2	0.30
Arsenic	75.00	1	0.39
Barium	137.00	10	0.026
Beryllium	9.00	1	0.021
Cadmium	111.00	1	0.078
Chromium	52.00	2	0.27
Cobalt	59.00	1	0.017
Copper	63.00	2	0.054
Lead	208.00	1	0.013
Manganese	55.00	1	0.016
Nickel	60.00	1	0.068
Selenium	82.00	5	0.25
Silver	107.00	1	0.019
Thallium	205.00	1	0.064
Vanadium	51.00	5	0.26
Zinc	66.00	2	0.34

Comments: _____

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HD4

Instrument ID: Cetac M7500 Analysis Method: CV

Start Date: 11/19/2009 End Date: 11/19/2009

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1038															X											
S0.2	1.0	1039															X											
S0.5	1.0	1041															X											
S1	1.0	1043															X											
S2	1.0	1044															X											
S5	1.0	1046															X											
S10	1.0	1048															X											
ICV	1.0	1049															X											
ICB	1.0	1051															X											
CRI	1.0	1053															X											
CCV	1.0	1054															X											
CCB	1.0	1056															X											
PBW	1.0	1058															X											
ME3HD4	1.0	1059															X											
ME3HD4D	1.0	1101															X											
ME3HD4S	1.0	1102															X											
ME3HE1	1.0	1104															X											
ME3HE3	1.0	1106															X											
ME3HE4	1.0	1107															X											
ME3HE7	1.0	1109															X											
ME3HF5	1.0	1111															X											
ME3HF6	1.0	1112															X											
CCV	1.0	1114															X											
CCB	1.0	1116															X											
ME3HD5	1.0	1117															X											
ME3HE0	1.0	1119															X											
ME3HE2	1.0	1121															X											
ME3HE8	1.0	1122															X											
ME3HE9	1.0	1124															X											
ME3HF2	1.0	1126															X											
ME3HD6	1.0	1127															X											
ME3HD7	1.0	1129															X											
ME3HD8	1.0	1130															X											
CRI	1.0	1132															X											
CCV	1.0	1134															X											
CCB	1.0	1135															X											
ME3HD9	1.0	1137															X											

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG No.: ME3HD4

Instrument ID: Cetac M7500 Analysis Method: CV

Start Date: 11/19/2009 End Date: 11/19/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME3HF0	1.0	1139															X											
ME3HF1	1.0	1140															X											
ZZZZZZ	1.0	1142																										
ZZZZZZ	1.0	1144																										
ZZZZZZ	1.0	1145																										
ZZZZZZ	1.0	1147																										
ZZZZZZ	1.0	1149																										
ZZZZZZ	1.0	1150																										
ZZZZZZ	1.0	1152																										
CCV	1.0	1154															X											
CCB	1.0	1155															X											
ZZZZZZ	1.0	1157																										
ZZZZZZ	1.0	1158																										
ZZZZZZ	1.0	1200																										
ZZZZZZ	1.0	1202																										
ZZZZZZ	1.0	1203																										
ZZZZZZ	1.0	1205																										
ZZZZZZ	1.0	1207																										
ZZZZZZ	1.0	1208																										
CRI	1.0	1210															X											
CCV	1.0	1212															X											
CCB	1.0	1213															X											

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HD4

Instrument ID: Alpkem FS3000 Analysis Method: AS

Start Date: 11/23/2009 End Date: 11/23/2009

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1027																								X		
S5.0	1.0	1029																								X		
S10.0	1.0	1031																								X		
S50.0	1.0	1033																								X		
S100.0	1.0	1035																								X		
S200.0	1.0	1037																								X		
ICV	1.0	1039																								X		
ICB	1.0	1041																								X		
CRI	1.0	1043																								X		
CCV	1.0	1045																								X		
CCB	1.0	1047																								X		
MIDRANGE	1.0	1049																								X		
CCV	1.0	1051																								X		
CCB	1.0	1053																								X		
BASELINE	1.0	1055																								X		
PBW	1.0	1057																								X		
LCSW	1.0	1059																								X		
ME3HD4	1.0	1101																								X		
ME3HD4D	1.0	1103																								X		
ME3HD4S	1.0	1105																								X		
ZZZZZZ	1.0	1107																										
ME3HE3	1.0	1109																								X		
CRI	1.0	1111																								X		
CCV	1.0	1113																								X		
CCB	1.0	1115																								X		
BASELINE	1.0	1117																								X		
ME3HE4	1.0	1119																								X		
ME3HE7	1.0	1121																								X		
ME3HF5	1.0	1123																								X		
ME3HF6	1.0	1125																								X		
ME3HD5	1.0	1127																								X		
ME3HE0	1.0	1129																								X		
ME3HE2	1.0	1131																								X		
ME3HE8	1.0	1133																								X		
CRI	1.0	1135																								X		
CCV	1.0	1137																								X		
CCB	1.0	1139																								X		

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG No.: ME3HD4

Instrument ID: Alpkem FS3000 Analysis Method: AS

Start Date: 11/23/2009 End Date: 11/23/2009

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
BASELINE	1.0	1141																								X		
ME3HE9	1.0	1143																								X		
ZZZZZZ	1.0	1145																										
ME3HD6	1.0	1147																								X		
ME3HD7	1.0	1149																								X		
ME3HD8	1.0	1151																								X		
ME3HD9	1.0	1153																								X		
ME3HF0	1.0	1155																								X		
ZZZZZZ	1.0	1157																										
CRI	1.0	1159																								X		
CCV	1.0	1201																								X		
CCB	1.0	1203																								X		
BASELINE	1.0	1205																								X		
ME3HE1	1.0	1210																								X		
ME3HF2	1.0	1212																								X		
ME3HF1	1.0	1214																								X		
CRI	1.0	1216																								X		
CCV	1.0	1218																								X		
CCB	1.0	1220																								X		

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HD4

Instrument ID: PE ICPMS DRC-E Analysis Method: MS

Start Date: 11/20/2009 End Date: 11/20/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
TUNE	1.0	0314																										
S0	1.0	0613		X	X	X		X		X				X		X				X	X		X	X	X			
S1	1.0	0615		X	X	X		X		X				X		X				X	X		X	X	X			
S10	1.0	0618		X	X	X		X		X				X		X				X	X		X	X	X			
S20	1.0	0621		X	X	X		X		X				X		X				X	X		X	X	X			
S50	1.0	0624		X	X	X		X		X				X		X				X	X		X	X	X			
S75	1.0	0627		X	X	X		X		X				X		X				X	X		X	X	X			
ICV	1.0	0629		X	X	X		X		X				X		X				X	X		X	X	X			
ICB	1.0	0634		X	X	X		X		X				X		X				X	X		X	X	X			
CRI	1.0	0637		X	X	X		X		X				X		X				X	X		X	X	X			
ICSA	1.0	0639		X	X	X		X		X				X		X				X	X		X	X	X			
ICSAB	1.0	0642		X	X	X		X		X				X		X				X	X		X	X	X			
CCV	1.0	0645		X	X	X		X		X				X		X				X	X		X	X	X			
CCB	1.0	0648		X	X	X		X		X				X		X				X	X		X	X	X			
PBW	1.0	0651		X	X	X		X		X				X		X				X	X		X	X	X			
LCSW	1.0	0653		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HD4	1.0	0656		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HD4D	1.0	0659		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HD4L	5.0	0702		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HD4S	1.0	0705		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HE1	1.0	0707		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HE3	1.0	0710		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HE4	1.0	0713		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HE7	1.0	0716		X	X	X		X		X				X		X				X	X		X	X	X			
CCV	1.0	0719		X	X	X		X		X				X		X				X	X		X	X	X			
CCB	1.0	0721		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HF5	1.0	0724		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HF6	1.0	0727		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HD5	1.0	0731		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HE0	1.0	0734		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HE2	1.0	0737		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HE8	1.0	0740		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HE9	1.0	0743		X	X	X		X		X				X		X				X	X		X	X	X			
CRI	1.0	0745		X	X	X		X		X				X		X				X	X		X	X	X			
CRI	1.0	0749			X																							
CCV	1.0	0752		X	X	X		X		X				X		X				X	X		X	X	X			
CCB	1.0	0755		X	X	X		X		X				X		X				X	X		X	X	X			

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HD4

Instrument ID: PE ICPMS DRC-E Analysis Method: MS

Start Date: 11/20/2009 End Date: 11/20/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME3HF2	1.0	0758		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HD6	1.0	0800		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HD7	1.0	0803		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HD8	1.0	0806		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HD9	1.0	0809		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HF0	1.0	0812		X	X	X		X		X				X		X				X	X		X	X	X			
ME3HF1	1.0	0814		X	X	X		X		X				X		X				X	X		X	X	X			
CRI	1.0	0817		X	X	X		X		X				X		X				X	X		X	X	X			
CCV	1.0	0820		X	X	X		X		X				X		X				X	X		X	X	X			
CCB	1.0	0823		X	X	X		X		X				X		X				X	X		X	X	X			

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HD4

Instrument ID: PE ICPMS DRC-E Analysis Method: MS

Start Date: 11/20/2009 End Date: 11/20/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
TUNE	1.0	0314																										
S0	1.0	0842									X	X						X										
S1	1.0	0844									X	X						X										
S10	1.0	0846									X	X						X										
S20	1.0	0849									X	X						X										
S50	1.0	0851									X	X						X										
S75	1.0	0853									X	X						X										
ICV	1.0	0855									X	X						X										
ICB	1.0	0857									X	X						X										
CRI	1.0	0859									X	X						X										
ICSA	1.0	0901									X	X						X										
ICSAB	1.0	0903									X	X						X										
CCV	1.0	0905									X	X						X										
CCB	1.0	0907									X	X						X										
PBW	1.0	0910									X	X						X										
LCSW	1.0	0912									X	X						X										
ME3HD4	1.0	0914									X	X						X										
ME3HD4D	1.0	0916									X	X						X										
ME3HD4L	5.0	0918									X	X						X										
ME3HD4S	1.0	0920									X	X						X										
ME3HE1	1.0	0922									X	X						X										
ME3HE3	1.0	0924									X	X						X										
ME3HE4	1.0	0926									X	X						X										
CCV	1.0	0928									X	X						X										
CCB	1.0	0931									X	X						X										
ME3HE7	1.0	0933									X	X						X										
ME3HF5	1.0	0935									X	X						X										
ME3HF6	1.0	0937									X	X						X										
ME3HD5	1.0	0939									X	X						X										
ME3HE0	1.0	0941									X	X						X										
ME3HE2	1.0	0943									X	X						X										
ME3HE8	1.0	0945									X	X						X										
ME3HE9	1.0	0947									X	X						X										
CRI	1.0	0950									X	X						X										
CCV	1.0	0952									X	X						X										
CCB	1.0	0954									X	X						X										
ME3HF2	1.0	0957									X	X						X										

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HD4

Instrument ID: PE ICPMS DRC-E Analysis Method: MS

Start Date: 11/20/2009 End Date: 11/20/2009

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME3HD6	1.0	0959									X	X						X										
ME3HD7	1.0	1001									X	X						X										
ME3HD8	1.0	1003									X	X						X										
ME3HD9	1.0	1005									X	X						X										
ME3HF0	1.0	1008									X	X						X										
ME3HF1	1.0	1010									X	X						X										
CRI	1.0	1012									X	X						X										
CCV	1.0	1014									X	X						X										
CCB	1.0	1016									X	X						X										

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HD4

Instrument ID: PE ICPMS DRC-E Analysis Method: MS

Start Date: 11/22/2009 End Date: 11/22/2009

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
TUNE	1.0	0459																										
S0	1.0	0623					X																					
S1	1.0	0625					X																					
S10	1.0	0627					X																					
S20	1.0	0629					X																					
S50	1.0	0631					X																					
S75	1.0	0633					X																					
ICV	1.0	0635					X																					
ICB	1.0	0637					X																					
CRI	1.0	0638					X																					
ICSA	1.0	0640					X																					
ICSAB	1.0	0642					X																					
CCV	1.0	0644					X																					
CCB	1.0	0646					X																					
PBW	1.0	0648					X																					
LCSW	1.0	0650					X																					
ME3HD4	1.0	0652					X																					
ME3HD4D	1.0	0654					X																					
ME3HD4L	5.0	0655					X																					
ME3HD4S	1.0	0657					X																					
ME3HE1	1.0	0659					X																					
ME3HE3	1.0	0701					X																					
ME3HE4	1.0	0703					X																					
CCV	1.0	0705					X																					
CCB	1.0	0707					X																					
ME3HE7	1.0	0709					X																					
ME3HF5	1.0	0711					X																					
ME3HF6	1.0	0713					X																					
ME3HD5	1.0	0714					X																					
ME3HE0	1.0	0716					X																					
ME3HE2	1.0	0718					X																					
ME3HE8	1.0	0720					X																					
CRI	1.0	0722					X																					
CCV	1.0	0724					X																					
CCB	1.0	0726					X																					

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USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG No.: ME3HD4

Instrument ID: PE ICPMS DRC-E Analysis Method: MS

Start Date: 11/22/2009 End Date: 11/22/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
TUNE	1.0	0459																										
S0	1.0	0844					X																					
S1	1.0	0845					X																					
S10	1.0	0847					X																					
S20	1.0	0849					X																					
S50	1.0	0851					X																					
S75	1.0	0853					X																					
ICV	1.0	0855					X																					
ICB	1.0	0857					X																					
CRI	1.0	0859					X																					
ICSA	1.0	0901					X																					
ICSAB	1.0	0903					X																					
CCV	1.0	0905					X																					
CCB	1.0	0906					X																					
ME3HE9	1.0	0908					X																					
ME3HF2	1.0	0910					X																					
ME3HD6	1.0	0912					X																					
ME3HD7	1.0	0914					X																					
ME3HD8	1.0	0916					X																					
ME3HD9	1.0	0918					X																					
ME3HF0	1.0	0920					X																					
ME3HF1	1.0	0922					X																					
CRI	1.0	0924					X																					
CCV	1.0	0926					X																					
CCB	1.0	0927					X																					

USEPA-CLP

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

ICP-MS Instrument ID: PE ICPMS DRC-E Start Date: 11/20/2009 End Date: 11/20/2009

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Sc_45	Q	Element Y_89	Q	Element In_115	Q	Element Ho_165	Q	Element Bi_209	Q
S0	0613	100		100		100		100		100	
S1	0615	100		99		100		100		101	
S10	0618	97		96		98		98		99	
S20	0621	95		95		98		95		98	
S50	0624	96		97		97		96		95	
S75	0627	95		95		95		95		94	
ICV	0629	95		96		96		97		96	
ICB	0634	95		96		97		97		99	
CRI	0637	98		96		98		99		99	
ICSA	0639	81		87		80		81		73	
ICSAB	0642	78		86		79		80		69	
CCV	0645	78		87		89		87		83	
CCB	0648	79		88		88		86		85	
PBW	0651	81		87		89		87		87	
LCSW	0653	83		91		91		88		85	
ME3HD4	0656	90		89		83		88		76	
ME3HD4D	0659	94		89		86		89		77	
ME3HD4L	0702	92		91		90		93		84	
ME3HD4S	0705	96		90		86		88		80	
ME3HE1	0707	100		93		86		91		80	
ME3HE3	0710	103		93		88		91		83	
ME3HE4	0713	102		95		89		93		84	
ME3HE7	0716	106		96		90		93		86	
CCV	0719	106		102		98		100		102	
CCB	0721	108		103		101		101		104	
ME3HF5	0724	107		96		90		94		86	
ME3HF6	0727	106		97		90		90		83	
ME3HD5	0731	111		96		84		79		72	
ME3HE0	0734	117		104		92		89		86	
ME3HE2	0737	120		105		97		95		90	
ME3HE8	0740	122		106		97		94		91	
ME3HE9	0743	120		104		95		95		93	
CRI	0745	115		108		107		99		109	
CRI	0749	112		108		104		97		104	
CCV	0752	112		108		107		100		105	
CCB	0755	114		111		108		100		107	
ME3HF2	0758	118		110		108		99		108	
ME3HD6	0800	123		106		95		92		91	
ME3HD7	0803	122		106		96		93		91	
ME3HD8	0806	116		103		95		90		90	
ME3HD9	0809	117		102		96		89		86	
ME3HF0	0812	118		103		95		90		89	
ME3HF1	0814	116		110		108		99		108	
CRI	0817	118		113		109		102		108	
CCV	0820	118		114		110		100		112	
CCB	0823	117		113		111		100		110	

USEPA-CLP

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

ICP-MS Instrument ID: PE ICPMS DRC-E Start Date: 11/20/2009 End Date: 11/20/2009

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Sc_45	Q	Element Y_89	Q	Element In_115	Q	Element Ho_165	Q	Element Bi_209	Q
S0	0842	100		100		100		100		100	
S1	0844	101		99		98		98		98	
S10	0846	99		101		101		100		100	
S20	0849	101		102		100		99		99	
S50	0851	101		101		100		100		101	
S75	0853	99		101		98		99		100	
ICV	0855	103		102		100		101		101	
ICB	0857	105		103		102		104		105	
CRI	0859	105		101		101		101		102	
ICSA	0901	99		94		86		90		81	
ICSAB	0903	96		95		86		91		81	
CCV	0905	102		95		95		99		98	
CCB	0907	98		97		95		98		99	
PBW	0910	103		99		101		102		102	
LCSW	0912	105		100		99		102		101	
ME3HD4	0914	113		100		93		98		90	
ME3HD4D	0916	115		98		93		99		92	
ME3HD4L	0918	119		99		96		104		102	
ME3HD4S	0920	111		97		91		96		88	
ME3HE1	0922	109		97		90		94		86	
ME3HE3	0924	107		98		91		96		89	
ME3HE4	0926	108		96		90		95		89	
CCV	0928	109		99		97		101		102	
CCB	0931	109		101		98		100		102	
ME3HE7	0933	113		99		92		97		89	
ME3HF5	0935	114		98		93		99		92	
ME3HF6	0937	113		96		92		98		90	
ME3HD5	0939	101		95		85		87		75	
ME3HE0	0941	105		98		91		95		86	
ME3HE2	0943	105		97		92		97		89	
ME3HE8	0945	106		98		92		97		89	
ME3HE9	0947	110		98		92		97		92	
CRI	0950	107		102		101		101		101	
CCV	0952	111		105		104		105		106	
CCB	0954	109		103		103		102		102	
ME3HF2	0957	103		99		100		100		99	
ME3HD6	0959	101		98		93		95		87	
ME3HD7	1001	102		98		92		95		87	
ME3HD8	1003	104		98		93		97		89	
ME3HD9	1005	108		99		93		97		89	
ME3HF0	1008	107		97		92		97		89	
ME3HF1	1010	116		103		102		104		108	
CRI	1012	110		102		101		101		103	
CCV	1014	104		103		101		102		102	
CCB	1016	105		103		101		102		102	

USEPA-CLP

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

ICP-MS Instrument ID: PE ICPMS DRC-E Start Date: 11/22/2009 End Date: 11/22/2009

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Li_6	Q	Element Sc_45	Q	Element In_115	Q	Element Ho_165	Q	Element Bi_209	Q
S0	0623	100		100		100		100		100	
S1	0625	113		110		105		105		108	
S10	0627	115		112		108		110		110	
S20	0629	113		110		109		109		107	
S50	0631	115		110		107		109		108	
S75	0633	113		110		109		109		110	
ICV	0635	113		110		108		108		107	
ICB	0637	113		109		106		108		109	
CRI	0638	116		112		112		111		110	
ICSA	0640	110		96		98		102		89	
ICSAB	0642	108		96		99		103		88	
CCV	0644	124		101		105		110		106	
CCB	0646	125		107		111		111		110	
PBW	0648	120		106		111		110		109	
LCSW	0650	120		108		111		114		111	
ME3HD4	0652	114		106		102		105		95	
ME3HD4D	0654	119		111		101		107		97	
ME3HD4L	0655	129	R	113		107		111		106	
ME3HD4S	0657	119		113		102		106		95	
ME3HE1	0659	113		110		100		106		93	
ME3HE3	0701	115		112		103		108		96	
ME3HE4	0703	114		111		102		106		97	
CCV	0705	118		112		110		111		110	
CCB	0707	113		109		109		108		109	
ME3HE7	0709	110		113		104		108		97	
ME3HF5	0711	118		118		106		111		100	
ME3HF6	0713	114		121		104		108		97	
ME3HD5	0714	94		109		99		101		83	
ME3HE0	0716	93		110		105		108		94	
ME3HE2	0718	96		112		106		108		98	
ME3HE8	0720	92		111		105		107		95	
CRI	0722	93		113		116		112		110	
CCV	0724	92		109		113		109		108	
CCB	0726	91		106		112		109		107	

USEPA-CLP

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD4

ICP-MS Instrument ID: PE ICPMS DRC-E Start Date: 11/22/2009 End Date: 11/22/2009

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Li_6	Q	Element Sc_45	Q	Element In_115	Q	Element Ho_165	Q	Element Bi_209	Q
S0	0844	100		100		100		100		100	
S1	0845	101		101		99		100		100	
S10	0847	107		106		102		103		103	
S20	0849	105		108		100		101		102	
S50	0851	106		104		100		100		101	
S75	0853	101		102		97		99		100	
ICV	0855	98		98		98		98		97	
ICB	0857	99		97		96		97		97	
CRI	0859	100		98		97		97		97	
ICSA	0901	99		89		91		93		79	
ICSAB	0903	104		91		90		92		78	
CCV	0905	120		99		97		99		98	
CCB	0906	117		100		100		98		99	
ME3HE9	0908	115		103		93		98		90	
ME3HF2	0910	119		104		99		99		101	
ME3HD6	0912	111		105		93		96		87	
ME3HD7	0914	114		108		93		97		89	
ME3HD8	0916	111		104		92		95		87	
ME3HD9	0918	114		108		93		97		89	
ME3HF0	0920	111		105		91		96		88	
ME3HF1	0922	116		109		99		101		104	
CRI	0924	115		108		99		99		101	
CCV	0926	111		108		97		99		100	
CCB	0927	109		104		100		99		102	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME3HD4 CERCLIS No: WIN005103 60

Case No: 39181 Site Name/Location: Hartland Well #3 (WI)

Contractor or EPA Lab: SUL Data User: WDNR

No. of Samples: 19 Date Sampled or Date Received: 25 NOV 09

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: 19 No. of samples received: ____

Received by: Pat A Joyner Date: 25 NOV 09

Received by LSSS: Pat A Joyner Date: 30 NOV 09

Review started: 2-2-10 Reviewer Signature: [signature]

Total time spent on review: 10.5 + 2.0 02/10/10 Date review completed: 2-3-10

Copied by: A. C. Harvey Date: Feb 5, 2010

Mailed to user by: Pat A Joyner Date: 8 FEB 10

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

Controlled Document

ESAT5.16.00387
ACH
2-11-10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: 11/30/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data for the following case:

SITE Name: Hartland Well #3 (WI)

Case Number: 39181 SDG Number: E3HD4

Number and Type of Samples: 21 Water Samples (VOA, SVOA, PEST, ARO)

Sample Numbers: E3HD4-D9, E0-E4, E7-E9, F0-F6

Laboratory: ALS DataChem Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-5J

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HD4
Laboratory: ALS DataChem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty-one (21) water samples labeled E3HD4 through E3HD9, E3HE0 through E3HE4, E3HE7 through E3HE9 and E3HF0 through E3HF6, were shipped to ALS DataChem Laboratories located in Salt Lake City, UT. The samples were collected on November 10, 2009, and received on November 12, 2009. All volatile vials arrived at correct shipping temperature. The semivolatile and pesticide containers for E3HD8 and E3HF1 arrived outside of the temperature range. All samples arrived intact except for samples E3HD4, E3HD8, E3HE7 and E3HF1. There was enough sample volume for samples E3HD4, E3HD8 and E3HE7 to perform the extractions and analyses. There was not enough sample volume for sample E3HF1 to perform the extractions and analyses for pesticides, aroclors and semivolatiles. The laboratory was given permission to extract and analyze the sample at a reduced volume. All samples were analyzed for volatiles compounds but only 19 samples; E3HD4 through E3HD9, E3HE0 through E3HE4, E3HE7 through E3HE9, E3HF0 through E3HF2 and E3HF5 through E3HF6 were analyzed for the semivolatiles, pesticides and aroclors compounds.

All samples were analyzed according to CLP SOW SOM01.2 and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.4).

Sample E3HD4 was designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

E3HF1 and E3HF2 were identified as field blanks. E3HF3 and E3HF4 were identified as trip blanks. No samples were identified as field duplicates.

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HD4
Laboratory: ALS DataChem

1. HOLDING TIME

No problems found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found.

3. CALIBRATION

The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Non-detected compounds are qualified "R".

1,4-Dioxane
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF3, E3HF4, E3HF5, E3HF6, VBLKW1, VBLKW2, VHBLKW1

The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRFs) criteria. Non-detected compounds are not qualified.

1,4-Dioxane-d8
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF3, E3HF4, E3HF5, E3HF6, VBLKW1, VBLKW2, VHBLKW1

The following volatile samples are associated with a CCV with relative response factors (RRFs) outside criteria. Non-detected compounds are qualified "R".

1,4-Dioxane
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF3, E3HF4, E3HF5, E3HF6, VBLKW1, VBLKW2, VHBLKW1

The following volatile samples are associated with a CCV in which a DMC did not meet relative response factor (RRF) criteria. Non-detected compounds are not qualified.

1,4-Dioxane-d8
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF3, E3HF4, E3HF5, E3HF6, VBLKW1, VBLKW2, VHBLKW1

The following volatile samples are associated with an opening CCV percent difference (%D) outside criteria. Non-detected compounds are qualified "UJ".

1,1,2,2-Tetrachloroethane
E3HD4, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HF3, E3HF4, VBLKW1

The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified "J". Non-detected compounds are not qualified.

Naphthalene
E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE0DL, E3HE1, E3HE1DL, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF5, E3HF5DL, E3HF6, E3HF6DL, SBLK32

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Carbon disulfide
E3HE3, E3HF0

The following semivolatile samples have analyte concentrations reported below the CRQL. The associated field blank concentration is less than the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Naphthalene
E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HE0, E3HE2, E3HE3, E3HE7, E3HE8, E3HE9, E3HF0, E3HF5, E3HF6

Caprolactam
E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0

Diethylphthalate
E3HD6, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF5, E3HF6

The following pesticide samples have analyte concentrations reported below the CRQL. The associated field blank concentration is less than the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Endrin
E3HD6, E3HD9, E3HE7, E3HE8, E3HE9, PLCSW1

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Non-detected compounds are not qualified. 1,4-Dioxane is qualified "R" because all calibration criteria were not met.

E3HD4MS
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

E3HD4MSD
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

E3HD7, E3HD8, E3HD9, E3HE1, E3HE3, E3HE4, E3HE8, E3HE9, E3HF1, E3HF5, E3HF6
1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

E3HE0
cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

E3HE2
1,4-Dioxane, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane

The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E3HE0, E3HE1, E3HF6
2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol

E3HF5
2-Methylphenol, 4-Methylphenol, 2,4-Dimethlyphenol, 2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol

The following diluted semivolatile samples with dilution factors greater than 5 have deuterated monitoring compound recovery above the upper limit of the criteria window. Detected and non-detected compounds are not qualified.

E3HE0DL
Hexachlorobenzene, Atrazine, Phenanthrene, Anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HE1DL, E3HF5DL
Hexachlorobenzene, Atrazine, Phenanthrene, Anthracene

The following diluted semivolatile samples with dilution factors greater than 5 have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected and non-detected compounds are not qualified.

E3HE0DL
2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol

E3HE1DL
2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline 4,6-Dinitro-2-methylphenol

E3HF5DL
Isophorone, 2-Nitrophenol, 2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol

E3HF6DL
4,6-Dinitro-2-methylphenol

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E3HD4 was designated by the samplers to be used for laboratory QC, i.e. matrix spike / matrix spike duplicate analyses.

The following semivolatile matrix spike duplicate sample has a percent recovery greater than the upper acceptance criteria. Detected compounds in the unspiked sample are not qualified because the percent recovery is less than or equal to 100%. Non-detected compounds are not qualified.

E3HD4MSD
4-Nitrophenol

Case Number: 39181 SDG Number: E3HD4
Site Name: Hartland Well #3 (WI) Laboratory: ALS DataChem

The following pesticide matrix spike/matrix spike duplicate samples have percent recoveries greater than or equal to the expanded lower acceptance limit but less than the primary lower acceptance limit. The compound was not detected in the un-spiked sample. The non-detected compound in the un-spiked sample is qualified "UJ".

E3HD4MS
Endrin

6B. LABORATORY CONTROL SAMPLE

No problems found.

7. FIELD BLANK AND FIELD DUPLICATE

E3HF1 and E3HF2 were identified as field blanks for volatiles and aroclors. E3HF3 and E3HF4 were identified as trip blanks for volatiles. No problems found.

E3HF1 and E3HF2 were identified as field blanks for semivolatiles and pesticides. Results are summarized in the following tables:

	E3HF1	E3HF2
Semivolatile analytes:	µg/L	µg/L
Benzaldehyde	0.67	0.52
Napththalene	3.6	1.9
Caprolactam	0.52	1.1
Diethylphthalate	0.48	0.34
# of SVOA TICs	0	0

	E3HF1	E3HF2
Pesticide analytes:	µg/L	µg/L
Endrin	0.0026	0

No samples were identified as field duplicates.

8. INTERNAL STANDARDS

No problems found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SV, Pesticide and aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E3HD6, E3HD7
Trichloroethene

E3HD8, E3HF0
Toluene

E3HD9, E3HE8, E3HE9
Trichloroethene, Toluene

E3HE0, E3HE1, E3HE3, E3HE7, E3HF6
Tetrachloroethene

E3HE2
Chloroform, Trichloroethene, Bromodichloromethane

E3HE4
cis-1,2-Dichloroethene, Trichloroethene

VBLKW2
Carbon disulfide

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E3HD5, E3HD8, E3HD9
Bis(2-ethylhexyl)phthalate

E3HD6
4-Chloro-3-methylphenol, 2-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Bis(2-ethylhexyl)phthalate

E3HD7
Phenol, Bis(2-chloroethyl)ether, 2-Chlorophenol, 2,2'-Oxybis(1-chloropropane), Nitrobenzene, 2-Nitrophenol, Bis(2-chloroethoxy)methane, 4-Chloro-3-methylphenol, 2-Methylnaphthalene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, 4-Bromophenyl-phenylether, Phenanthrene, Anthracene, Bis(2-ethylhexyl)phthalate

E3HE0
Nitrobenzene, 2-Nitrophenol, 4-Chloro-3-methylphenol, 2,4,5-Trichlorophenol, Di-n-butylphthalate, Bis(2-ethylhexyl)phthalate

E3HE0DL
3,3'-Dichlorobenzidine, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HE1
Phenol, 4-Chloro-3-methylphenol, Acenaphthene, Di-n-butylphthalate, Bis(2-ethylhexyl)phthalate

E3HE2
Phenol, 2-Chlorophenol, 4-Chloro-3-methylphenol, Acenaphthene, Bis(2-ethylhexyl)phthalate

E3HE3
Phenol, 2-Chlorophenol, Nitrobenene, 2-Nitrophenol, 4-Chloro-3-methylphenol, 2-Methylnaphthalene, 2,4,6-Trichlorophenol, Acenaphthene, Dibenzofuran, Bis(2-ethylhexyl)phthalate

E3HE4
Phenol, Bis(2-ethylhexyl)phthalate

E3HE7
Nitrobenzene

E3HF0, E3HF6
Di-n-butylphthalate, Bis(2-ethylhexyl)phthalate

E3HF1, E3HF2
Benzaldehyde, Naphthalene, Caprolactam, Diethylphthalate

E3HF5
Phenol, Di-n-butylphthalate, Bis(2-ethylhexyl)phthalate

A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified "NJ".

E3HD6
CAS NO. 134-62-3 Diethyltoluamide

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HD4
Laboratory: ALS DataChem

E3HE0
CAS NO. 4792-15-8 Pentaethylene glycol

E3HE1
CAS NO. 1786-94-3 3,6,9,12,15-Pentaoxanonadecan-1-01

A library search indicates a match below 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified "J".

E3HE0
Chlorinated aromatic @ 6.13; Unknown oxyhydrocarbon @ 13.01; Unknown @ 13.73; Unknown @ 14.59; Unknown aromatic @ 14.68; Unknown @ 15.99; Unknown @ 16.08; Unknown @ 17.36

E3HE0DL
Polycyclic hydrocarbon @ 3.93

E3HE1
Chlorinated aromatic @ 6.14; Unknown oxyhydrocarbon @ 13.00; Unknown oxyhydrocarbon @ 13.49; Unknown @ 14.60; Unknown @ 14.69; Unknown @ 15.51; Unknown @ 15.82; Unknown @ 24.57

E3HE4
Unknown oxyhydrocarbon @ 13.62; Unknown oxyhydrocarbon @ 15.94

E3HF5
Brominated compound @ 5.25; Unknown @ 5.48; Chlorinated aromatic @ 6.15; Unknown @ 9.34; Unknown @ 11.33; Unknown oxyhydrocarbon @ 12.99; Unknown @ 13.48; Unknown @ 14.58; Unknown @ 14.70; Polycyclic hydrocarbon @ 14.83; Unknown @ 14.96; Unknown @ 15.17; Unknown @ 15.37; Unknown @ 15.51; Unknown @ 15.82; Polycyclic hydrocarbon @ 16.64; Unknown @ 17.36; Unknown @ 17.48; Unknown @ 17.75; Unknown @ 24.52

E3HF6
Chlorinated aromatic @ 6.09; Unknown @ 11.35; Unknown @ 12.99; Unknown @ 13.48; Unknown @ 14.59; Unknown @ 14.69; Unknown @ 14.96; Unknown @ 15.50; Unknown @ 15.58; Unknown @ 15.82; Polycyclic hydrocarbon @ 16.00; Unknown @ 16.26; Unknown @ 17.36

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E3HD4MS, E3HD4MSD
4,4'-DDD, Endrin ketone

E3HD5, E3HD6, E3HE1, E3HE3
beta-BHC

E3HE0, E3HF5
4,4'-DDE

E3HE9
4,4'-DDT

E3HF1
Endrin

E3HF6
Dieldrin

PLCSW1
gamma-BHC, Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, gamma-Chlordane

The relative percent difference between analyte results for the following pesticide samples are greater than or equal to 25%. Detected compounds are qualified "J".

E3HD4MS, E3HD4MSD
4,4'-DDD, 4,4'-DDT, Endrin ketone

PLCSW1
4,4'-DDE

The relative percent difference between analyte results for the following pesticide samples is greater than 25% and the sample value is less than 25% of the CRQL. Detected compounds are qualified "U" as false positives. Reported sample concentrations have been elevated to the CRQL.

E3HD4
beta-BHC, Methoxychlor

E3HD4MS
delta-BHC, 4,4'-DDE, Endrin aldehyde

E3HD4MSD
4,4'-DDE, Endrin aldehyde

E3HD5, E3HD6
delta-BHC, Endrin aldehyde

E3HD7, E3HE8
beta-BHC, Endrin aldehyde

E3HD8
beta-BHC, 4,4'-DDD, Endrin aldehyde

E3HD9
Dieldrin, Endrin aldehyde

E3HE0, E3HE4
beta-BHC, delta-BHC

E3HE1
delta-BHC, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin ketone

E3HE2
beta-BHC, delta-BHC, Endrin

E3HE3, E3HF1
delta-BHC

E3HE9
beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin

E3HF0
beta-BHC, delta-BHC, Endrin aldehyde

E3HF2
beta-BHC, Heptachlor, 4,4'-DDE, Endrin, 4,4'-DDT, Methoxychlor

E3HF5
beta-BHC, delta-BHC, Heptachlor, Dieldrin, Endosulfan sulfate, Methoxychlor

E3HF6
beta-BHC, delta-BHC, Heptachlor, Endosulfan sulfate

PBLKW1
Endrin aldehyde

The following Aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

ALCSW1
Aroclor-1016, Aroclor-1262

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide and aroclor analyses were acceptable.

12. ADDITIONAL INFORMATION

The following semivolatile samples have compound concentrations which exceed the instruments calibration range. The detected results are qualified "J". The results from the diluted analyses should be considered the final concentrations for the affected compounds.

E3HE0, E3HE1, E3HF5, E3HF6
Caprolactam

After comparing the semivolatile chromatograms for the TICs identified as Unknown @ 15.83 ± 0.06 in samples E3HE1, E3HF5, E3HF6 to CAS NO. 4792-15-8 Pentaethylene glycol in sample E3HE0, the Reviewer concluded that the same compound was being described in each sample. Copies of the chromatograms are enclosed.

After comparing the semivolatile chromatograms for the TICs identified as Unknown @ 17.37 ± 0.06 in samples E3HE0, E3HF5, E3HF6 to CAS NO. 1786-94-3 3,6,9,12,15-Pentaoxanonadecan-1-0l in sample E3HE1, the Reviewer concluded that the same compound was being described in each sample. Copies of the chromatograms are enclosed.

The following semivolatile results were not rounded correctly. The results should have been rounded up. Reported results were corrected for these discrepancies.

E3HD7
Phenol, Bis(2-chloroethoxy)methane, 2,4,5-Trichlorophenol, Anthracene

E3HD8
Bis(2-ethylhexyl)phthalate

E3HE3
2-Chlorophenol

E3HF0
Di-n-butylphthalate

Peaks that are tentatively identified as straight-chain, branched, or cyclic alkanes, and are alone or part of an alkane series, shall be reported as "total alkanes" on Form I SV-TIC. An alkane is defined as any hydrocarbon with only C-H and C-C single bonds. The following semivolatile samples had TICs considered to be alkanes by the Reviewer and were removed from the TIC report.

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HD4
Laboratory: ALS DataChem

E3HE0, E3HE1, E3HF5

Analytical Results (Qualified Data)

Case #: 39181
Site :
Lab. :
Reviewer :
Date :

SDG : E3HD4
HARTLAND WELL #3
DATAC
D. CONNET
2/4/2010

Number of Soil Samples : 0
Number of Water Samples : 21
Number of Sediment Samples : 0

Sample Number :	E3HD4		E3HD4MS		E3HD4MSD		E3HD5		E3HD6	
Sampling Location :	MS-3		MS-3		MS-3		MW-22		MW-5	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009						11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	1.0		1.0		1.0		1.0		1.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethene	5.0	U	63	J	63	J	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl acetate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methylene chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl tert-butyl ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Bromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	5.0	U	62		61		5.0	U	5.0	U
1,2-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dioxane	100	R	100	R	100	R	100	R	100	R
Trichloroethene	8.5		63		63		5.0	U	0.96	J
Methylcyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromodichloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	5.0	U	57		58		5.0	U	5.0	U
trans-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Reviewed by: Deborah Connet / TechLaw-ESAT
Date: February 11, 2010

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HD4		E3HD4MS		E3HD4MSD		E3HD5		E3HD6	
Sampling Location :	MS-3		MS-3		MS-3		MW-22		MW-5	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009						11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	1.0		1.0		1.0		1.0		1.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chlorobenzene	5.0	U	53		56		5.0	U	5.0	U
Ethylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
m,p-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Styrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isopropylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	5.0	UJ	5.0	U	5.0	U	5.0	UJ	5.0	UJ
1,3-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HD7		E3HD8		E3HD9		E3HE0		E3HE1	
Sampling Location :	MW-6		MW-7		MW-8		MW-9		P-2	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		1.0		1.0		1.0		1.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl acetate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methylene chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl tert-butyl ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Bromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dioxane	100	R	100	R	100	R	100	R	100	R
Trichloroethene	0.90	J	5.0	U	0.81	J	9.5		10	
Methylcyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromodichloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	5.0	U	0.49	J	0.44	J	5.0	U	5.0	U
trans-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HD7		E3HD8		E3HD9		E3HE0		E3HE1	
Sampling Location :	MW-6		MW-7		MW-8		MW-9		P-2	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		1.0		1.0		1.0		1.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	5.0	U	5.0	U	0.97	J	1.0	J
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Ethylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
m,p-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Styrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isopropylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
1,3-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE2		E3HE3		E3HE4		E3HE7		E3HE8	
Sampling Location :	P-2A		P-3		P-3A		PZ-23I		PZ-5	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	1.0		1.0		1.0		1.0		1.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl acetate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methylene chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl tert-butyl ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5.0	U	5.0	U	0.95	J	5.0	U	5.0	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Bromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroform	1.2	J	5.0	U	5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dioxane	100	R	100	R	100	R	100	R	100	R
Trichloroethene	1.3	J	8.2		4.2	J	9.6		2.5	J
Methylcyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromodichloromethane	0.69	J	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	5.0	U	5.0	U	5.0	U	5.0	U	0.37	J
trans-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE2		E3HE3		E3HE4		E3HE7		E3HE8	
Sampling Location :	P-2A		P-3		P-3A		PZ-23I		PZ-5	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	1.0		1.0		1.0		1.0		1.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	1.0	J	5.0	U	0.84	J	5.0	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Ethylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
m,p-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Styrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isopropylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,3-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE9		E3HF0		E3HF1		E3HF2		E3HF3	
Sampling Location :	PZ-6		PZ-7		R-01		R-02		TB-1	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	1.0		1.0		1.0		1.0		1.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl acetate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methylene chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl tert-butyl ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Bromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dioxane	100	R	100	R	100	R	100	R	100	R
Trichloroethene	1.2	J	5.0	U	5.0	U	5.0	U	5.0	U
Methylcyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromodichloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	0:40	J	0.32	J	5.0	U	5.0	U	5.0	U
trans-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE9		E3HF0		E3HF1		E3HF2		E3HF3	
Sampling Location :	PZ-6		PZ-7		R-01		R-02		TB-1	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	1.0		1.0		1.0		1.0		1.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Ethylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
m,p-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Styrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isopropylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	UJ
1,3-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HF4		E3HF5		E3HF6		VBLKW1		VBLKW2	
Sampling Location :	TB-2		TW-1		TW-4					
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009					
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	1.0		1.0		1.0					
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	5.0	U	5.0	U	5.0	U	5.0	U	0.45	J
Methyl acetate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methylene chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl tert-butyl ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Bromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dioxane	100	R	100	R	100	R	100	R	100	R
Trichloroethene	5.0	U	6.0		12		5.0	U	5.0	U
Methylcyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromodichloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HF4		E3HF5		E3HF6		VBLKW1		VBLKW2	
Sampling Location :	TB-2		TW-1		TW-4					
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009					
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	1.0		1.0		1.0					
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	5.0	U	2.9	J	5.0	U	5.0	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Ethylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
m,p-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Styrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isopropylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	5.0	UJ	5.0	U	5.0	U	5.0	UJ	5.0	U
1,3-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	VHBLKW1									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U								
Chloromethane	5.0	U								
Vinyl chloride	5.0	U								
Bromomethane	5.0	U								
Chloroethane	5.0	U								
Trichlorofluoromethane	5.0	U								
1,1-Dichloroethene	5.0	U								
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U								
Acetone	10	U								
Carbon disulfide	5.0	U								
Methyl acetate	5.0	U								
Methylene chloride	5.0	U								
trans-1,2-Dichloroethene	5.0	U								
Methyl tert-butyl ether	5.0	U								
1,1-Dichloroethane	5.0	U								
cis-1,2-Dichloroethene	5.0	U								
2-Butanone	10	U								
Bromochloromethane	5.0	U								
Chloroform	5.0	U								
1,1,1-Trichloroethane	5.0	U								
Cyclohexane	5.0	U								
Carbon tetrachloride	5.0	U								
Benzene	5.0	U								
1,2-Dichloroethane	5.0	U								
1,4-Dioxane	100	R								
Trichloroethene	5.0	U								
Methylcyclohexane	5.0	U								
1,2-Dichloropropane	5.0	U								
Bromodichloromethane	5.0	U								
cis-1,3-Dichloropropene	5.0	U								
4-Methyl-2-Pentanone	10	U								
Toluene	5.0	U								
trans-1,3-Dichloropropene	5.0	U								

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	VHBLKW1									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U								
Tetrachloroethene	5.0	U								
2-Hexanone	10	U								
Dibromochloromethane	5.0	U								
1,2-Dibromoethane	5.0	U								
Chlorobenzene	5.0	U								
Ethylbenzene	5.0	U								
o-Xylene	5.0	U								
m,p-Xylene	5.0	U								
Styrene	5.0	U								
Bromoform	5.0	U								
Isopropylbenzene	5.0	U								
1,1,2,2-Tetrachloroethane	5.0	U								
1,3-Dichlorobenzene	5.0	U								
1,4-Dichlorobenzene	5.0	U								
1,2-Dichlorobenzene	5.0	U								
1,2-Dibromo-3-chloropropane	5.0	U								
1,2,4-Trichlorobenzene	5.0	U								
1,2,3-Trichlorobenzene	5.0	U								

Analytical Results (Qualified Data)

Case #: 39181
SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Number of Soil Samples : 0
Number of Water Samples : 19
Number of Sediment Samples : 0

Sample Number :	E3HD4		E3HD4MS		E3HD4MSD		E3HD5		E3HD6	
Sampling Location :	MS-3		MS-3		MS-3		MW-22		MW-5	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009						11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	25		28		5.0	U	5.0	U
Bis(2-chloroethyl)ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	27		24		5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,2'-Oxybis(1-chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	27		27		5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	27		26		5.0	U	0.23	J
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	0.19	J
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	0.32	J
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	0.21	J
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U	0.18	J
3-Nitroaniline	10	U	10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	28		27		5.0	U	0.31	J

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HD4		E3HD4MS		E3HD4MSD		E3HD5		E3HD6	
Sampling Location :	MS-3		MS-3		MS-3		MW-22		MW-5	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009						11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	31		35		10	U	10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U	0.38	J
2,4-Dinitrotoluene	5.0	U	28		30		5.0	U	5.0	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U	0.16	J
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	U	28		26		10	U	10	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	29		32		5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-ethylhexyl)phthalate	5.0	U	5.0	U	5.0	U	0.46	J	0.23	J
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HD7		E3HD8		E3HD9		E3HE0		E3HE0DL	
Sampling Location :	MW-6		MW-7		MW-8		MW-9		MW-9	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		16.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Phenol	0.31	J	5.0	U	5.0	U	5.0	U	80	U
Bis(2-chloroethyl)ether	0.26	J	5.0	U	5.0	U	5.0	U	80	U
2-Chlorophenol	0.54	J	5.0	U	5.0	U	5.0	U	80	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	80	U
2,2'-Oxybis(1-chloropropane)	0.19	J	5.0	U	5.0	U	5.0	U	80	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U	80	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	80	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Nitrobenzene	0.69	J	5.0	U	5.0	U	0.27	J	80	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U	80	U
2-Nitrophenol	0.39	J	5.0	U	5.0	U	0.15	J	80	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Bis(2-chloroethoxy)methane	0.36	J	5.0	U	5.0	U	5.0	U	80	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	UJ	80	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	80	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	UJ	80	U
Caprolactam	5.0	U	5.0	U	5.0	U	550	J	560	
4-Chloro-3-methylphenol	0.50	J	5.0	U	5.0	U	0.23	J	80	U
2-Methylnaphthalene	0.32	J	5.0	U	5.0	U	5.0	U	80	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U	80	U
2,4,6-Trichlorophenol	0.48	J	5.0	U	5.0	U	5.0	UJ	80	U
2,4,5-Trichlorophenol	0.44	J	5.0	U	5.0	U	0.20	J	80	U
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U	80	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	80	U
2-Nitroaniline	10	U	10	U	10	U	10	U	160	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	80	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Acenaphthylene	0.19	J	5.0	U	5.0	U	5.0	U	80	U
3-Nitroaniline	10	U	10	U	10	U	10	U	160	U
Acenaphthene	0.34	J	5.0	U	5.0	U	5.0	U	80	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HD7		E3HD8		E3HD9		E3HE0		E3HE0DL	
Sampling Location :	MW-6		MW-7		MW-8		MW-9		MW-9	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		16.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U	10	U	10	U	10	U	160	U
4-Nitrophenol	10	U	10	U	10	U	10	U	160	U
Dibenzofuran	0.37	J	5.0	U	5.0	U	5.0	U	80	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Fluorene	0.16	J	5.0	U	5.0	U	5.0	U	80	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	80	U
4-Nitroaniline	10	U	10	U	10	U	10	U	160	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U	160	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U	80	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	UJ	80	U
4-Bromophenyl-phenylether	0.17	J	5.0	U	5.0	U	5.0	U	80	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Pentachlorophenol	10	U	10	U	10	U	10	UJ	160	U
Phenanthrene	0.17	J	5.0	U	5.0	U	5.0	U	80	U
Anthracene	0.16	J	5.0	U	5.0	U	5.0	U	80	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	0.16	J	80	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	80	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U	5.4	J
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	2.8	J
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U	2.6	J
Bis(2-ethylhexyl)phthalate	0.23	J	0.47	J	0.28	J	0.69	J	2.7	J
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	80	U
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	7.2	J
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	8.0	J
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	9.5	J
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	20	J
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	16	J
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U	19	J
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	UJ	80	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE1		E3HE1DL		E3HE2		E3HE3		E3HE4	
Sampling Location :	P-2		P-2		P-2A		P-3		P-3A	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009				11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		20.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Phenol	0.32	J	100	U	0.37	J	0.15	J	0.31	J
Bis(2-chloroethyl)ether	5.0	U	100	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	100	U	0.35	J	0.31	J	5.0	U
2-Methylphenol	5.0	U	100	U	5.0	U	5.0	U	5.0	U
2,2'-Oxybis(1-chloropropane)	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	100	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	100	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	100	U	5.0	U	0.45	J	5.0	U
Isophorone	5.0	U	100	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	100	U	5.0	U	0.21	J	5.0	U
2,4-Dimethylphenol	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Bis(2-chloroethoxy)methane	5.0	U	100	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	UJ	100	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	UJ	100	U	5.0	U	5.0	U	5.0	U
Caprolactam	670	J	810		56		5.0	U	5.0	U
4-Chloro-3-methylphenol	0.26	J	100	U	0.29	J	0.17	J	5.0	U
2-Methylnaphthalene	5.0	U	100	U	5.0	U	0.17	J	5.0	U
Hexachlorocyclopentadiene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	UJ	100	U	5.0	U	0.18	J	5.0	U
2,4,5-Trichlorophenol	5.0	UJ	100	U	5.0	U	5.0	U	5.0	U
1,1'-Biphenyl	5.0	U	100	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	200	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	100	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	200	U	10	U	10	U	10	U
Acenaphthene	0.18	J	100	U	0.22	J	0.15	J	5.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE1		E3HE1DL		E3HE2		E3HE3		E3HE4	
Sampling Location :	P-2		P-2		P-2A		P-3		P-3A	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009				11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		20.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U	200	U	10	U	10	U	10	U
4-Nitrophenol	10	U	200	U	10	U	10	U	10	U
Dibenzofuran	5.0	U	100	U	5.0	U	0.17	J	5.0	U
2,4-Dinitrotoluene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Diethylphthalate	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	100	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	200	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	200	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	100	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	UJ	100	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	UJ	200	U	10	U	10	U	10	U
Phenanthrene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	0.18	J	100	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	100	U	5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Bis(2-ethylhexyl)phthalate	0.68	J	100	U	0.37	J	0.24	J	0.22	J
Di-n-octylphthalate	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyrene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	100	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	UJ	100	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE7		E3HE8		E3HE9		E3HF0		E3HF1	
Sampling Location :	PZ-23I		PZ-5		PZ-6		PZ-7		R-01	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U	0.67	J
Phenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Bis(2-chloroethyl)ether	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2,2'-Oxybis(1-chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Nitrobenzene	0.30	J	5.0	U	5.0	U	5.0	U	8.1	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Bis(2-chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	3.6	J
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U	0.52	J
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2-Nitroaniline	10	U	10	U	10	U	10	U	16	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
3-Nitroaniline	10	U	10	U	10	U	10	U	16	U
Acenaphthene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE7		E3HE8		E3HE9		E3HF0		E3HF1	
Sampling Location :	PZ-23I		PZ-5		PZ-6		PZ-7		R-01	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U	10	U	10	U	10	U	16	U
4-Nitrophenol	10	U	10	U	10	U	10	U	16	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	0.48	J
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
4-Nitroaniline	10	U	10	U	10	U	10	U	16	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U	16	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Pentachlorophenol	10	U	10	U	10	U	10	U	16	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	0.17	J	8.1	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Bis(2-ethylhexyl)phthalate	5.0	U	5.0	U	5.0	U	0.21	J	8.1	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	8.1	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HF2		E3HF5		E3HF5DL		E3HF6		E3HF6DL	
Sampling Location :	R-02		TW-1		TW-1		TW-4		TW-4	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009				11/10/2009			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		25.0		1.0		10.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	0.52	J	5.0	U	130	U	5.0	U	50	U
Phenol	5.0	U	0.18	J	130	U	5.0	U	50	U
Bis(2-chloroethyl)ether	5.0	U	5.0	U	130	U	5.0	U	50	U
2-Chlorophenol	5.0	U	5.0	U	130	U	5.0	U	50	U
2-Methylphenol	5.0	U	5.0	UJ	130	U	5.0	U	50	U
2,2'-Oxybis(1-chloropropane)	5.0	U	5.0	U	130	U	5.0	U	50	U
Acetophenone	5.0	U	5.0	U	130	U	5.0	U	50	U
4-Methylphenol	5.0	U	5.0	UJ	130	U	5.0	U	50	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	130	U	5.0	U	50	U
Hexachloroethane	5.0	U	5.0	U	130	U	5.0	U	50	U
Nitrobenzene	5.0	U	5.0	U	130	U	5.0	U	50	U
Isophorone	5.0	U	5.0	U	130	U	5.0	U	50	U
2-Nitrophenol	5.0	U	5.0	U	130	U	5.0	U	50	U
2,4-Dimethylphenol	5.0	U	5.0	UJ	130	U	5.0	U	50	U
Bis(2-chloroethoxy)methane	5.0	U	5.0	U	130	U	5.0	U	50	U
2,4-Dichlorophenol	5.0	U	5.0	UJ	130	U	5.0	UJ	50	U
Naphthalene	1.9	J	5.0	U	130	U	5.0	U	50	U
4-Chloroaniline	5.0	U	5.0	U	130	U	5.0	U	50	U
Hexachlorobutadiene	5.0	U	5.0	UJ	130	U	5.0	UJ	50	U
Caprolactam	1.1	J	830	J	870		430	J	390	
4-Chloro-3-methylphenol	5.0	U	5.0	UJ	130	U	5.0	UJ	50	U
2-Methylnaphthalene	5.0	U	5.0	U	130	U	5.0	U	50	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	130	U	5.0	U	50	U
2,4,6-Trichlorophenol	5.0	U	5.0	UJ	130	U	5.0	UJ	50	U
2,4,5-Trichlorophenol	5.0	U	5.0	UJ	130	U	5.0	UJ	50	U
1,1'-Biphenyl	5.0	U	5.0	U	130	U	5.0	U	50	U
2-Chloronaphthalene	5.0	U	5.0	U	130	U	5.0	U	50	U
2-Nitroaniline	10	U	10	U	250	U	10	U	100	U
Dimethylphthalate	5.0	U	5.0	U	130	U	5.0	U	50	U
2,6-Dinitrotoluene	5.0	U	5.0	U	130	U	5.0	U	50	U
Acenaphthylene	5.0	U	5.0	U	130	U	5.0	U	50	U
3-Nitroaniline	10	U	10	U	250	U	10	U	100	U
Acenaphthene	5.0	U	5.0	U	130	U	5.0	U	50	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HF2		E3HF5		E3HF5DL		E3HF6		E3HF6DL	
Sampling Location :	R-02		TW-1		TW-1		TW-4		TW-4	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009				11/10/2009			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		25.0		1.0		10.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U	10	U	250	U	10	U	100	U
4-Nitrophenol	10	U	10	U	250	U	10	U	100	U
Dibenzofuran	5.0	U	5.0	U	130	U	5.0	U	50	U
2,4-Dinitrotoluene	5.0	U	5.0	U	130	U	5.0	U	50	U
Diethylphthalate	0.34	J	5.0	U	130	U	5.0	U	50	U
Fluorene	5.0	U	5.0	U	130	U	5.0	U	50	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	130	U	5.0	U	50	U
4-Nitroaniline	10	U	10	U	250	U	10	U	100	U
4,6-Dinitro-2-methylphenol	10	U	10	U	250	U	10	U	100	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	130	U	5.0	U	50	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	UJ	130	U	5.0	UJ	50	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	130	U	5.0	U	50	U
Hexachlorobenzene	5.0	U	5.0	U	130	U	5.0	U	50	U
Atrazine	5.0	U	5.0	U	130	U	5.0	U	50	U
Pentachlorophenol	10	U	10	UJ	250	U	10	UJ	100	U
Phenanthrene	5.0	U	5.0	U	130	U	5.0	U	50	U
Anthracene	5.0	U	5.0	U	130	U	5.0	U	50	U
Carbazole	5.0	U	5.0	U	130	U	5.0	U	50	U
Di-n-butylphthalate	5.0	U	0.40	J	130	U	0.25	J	50	U
Fluoranthene	5.0	U	5.0	U	130	U	5.0	U	50	U
Pyrene	5.0	U	5.0	U	130	U	5.0	U	50	U
Butylbenzylphthalate	5.0	U	5.0	U	130	U	5.0	U	50	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	130	U	5.0	U	50	U
Benzo(a)anthracene	5.0	U	5.0	U	130	U	5.0	U	50	U
Chrysene	5.0	U	5.0	U	130	U	5.0	U	50	U
Bis(2-ethylhexyl)phthalate	5.0	U	1.4	J	130	U	0.48	J	50	U
Di-n-octylphthalate	5.0	U	5.0	U	130	U	5.0	U	50	U
Benzo(b)fluoranthene	5.0	U	5.0	U	130	U	5.0	U	50	U
Benzo(k)fluoranthene	5.0	U	5.0	U	130	U	5.0	U	50	U
Benzo(a)pyrene	5.0	U	5.0	U	130	U	5.0	U	50	U
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	130	U	5.0	U	50	U
Dibenzo(a,h)anthracene	5.0	U	5.0	U	130	U	5.0	U	50	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	130	U	5.0	U	50	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	UJ	130	U	5.0	UJ	50	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	SBLK32									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U								
Phenol	5.0	U								
Bis(2-chloroethyl)ether	5.0	U								
2-Chlorophenol	5.0	U								
2-Methylphenol	5.0	U								
2,2'-Oxybis(1-chloropropane)	5.0	U								
Acetophenone	5.0	U								
4-Methylphenol	5.0	U								
N-Nitroso-di-n-propylamine	5.0	U								
Hexachloroethane	5.0	U								
Nitrobenzene	5.0	U								
Isophorone	5.0	U								
2-Nitrophenol	5.0	U								
2,4-Dimethylphenol	5.0	U								
Bis(2-chloroethoxy)methane	5.0	U								
2,4-Dichlorophenol	5.0	U								
Naphthalene	5.0	U								
4-Chloroaniline	5.0	U								
Hexachlorobutadiene	5.0	U								
Caprolactam	5.0	U								
4-Chloro-3-methylphenol	5.0	U								
2-Methylnaphthalene	5.0	U								
Hexachlorocyclopentadiene	5.0	U								
2,4,6-Trichlorophenol	5.0	U								
2,4,5-Trichlorophenol	5.0	U								
1,1'-Biphenyl	5.0	U								
2-Chloronaphthalene	5.0	U								
2-Nitroaniline	10	U								
Dimethylphthalate	5.0	U								
2,6-Dinitrotoluene	5.0	U								
Acenaphthylene	5.0	U								
3-Nitroaniline	10	U								
Acenaphthene	5.0	U								

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	SBLK32									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U								
4-Nitrophenol	10	U								
Dibenzofuran	5.0	U								
2,4-Dinitrotoluene	5.0	U								
Diethylphthalate	5.0	U								
Fluorene	5.0	U								
4-Chlorophenyl-phenylether	5.0	U								
4-Nitroaniline	10	U								
4,6-Dinitro-2-methylphenol	10	U								
N-Nitrosodiphenylamine	5.0	U								
1,2,4,5-Tetrachlorobenzene	5.0	U								
4-Bromophenyl-phenylether	5.0	U								
Hexachlorobenzene	5.0	U								
Atrazine	5.0	U								
Pentachlorophenol	10	U								
Phenanthrene	5.0	U								
Anthracene	5.0	U								
Carbazole	5.0	U								
Di-n-butylphthalate	5.0	U								
Fluoranthene	5.0	U								
Pyrene	5.0	U								
Butylbenzylphthalate	5.0	U								
3,3'-Dichlorobenzidine	5.0	U								
Benzo(a)anthracene	5.0	U								
Chrysene	5.0	U								
Bis(2-ethylhexyl)phthalate	5.0	U								
Di-n-octylphthalate	5.0	U								
Benzo(b)fluoranthene	5.0	U								
Benzo(k)fluoranthene	5.0	U								
Benzo(a)pyrene	5.0	U								
Indeno(1,2,3-cd)pyrene	5.0	U								
Dibenzo(a,h)anthracene	5.0	U								
Benzo(g,h,i)perylene	5.0	U								
2,3,4,6-Tetrachlorophenol	5.0	U								

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Number of Soil Samples : 0
Number of Water Samples : 19
Number of Sediment Samples : 0

Sample Number :	E3HD4		E3HD4MS		E3HD4MSD		E3HD5		E3HD6	
Sampling Location :	MS-3		MS-3		MS-3		MW-22		MW-5	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009						11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.0053	J	0.011	J
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.31		0.31		0.050	U	0.050	U
Heptachlor	0.050	U	0.30		0.31		0.050	U	0.050	U
Aldrin	0.050	U	0.32		0.33		0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.62		0.63		0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	UJ	0.55		0.56		0.10	U	0.10	U
Endosulfan II	0.10	U	0.10		0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.050	J	0.056	J	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.49	J	0.49	J	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.046	J	0.039	J	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HD7		E3HD8		E3HD9		E3HE0		E3HE1	
Sampling Location :	MW-6		MW-7		MW-8		MW-9		P-2	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.0037	J
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.0031	J	0.10	U
Endrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE2		E3HE3		E3HE4		E3HE7		E3HE8	
Sampling Location :	P-2A		P-3		P-3A		PZ-23I		PZ-5	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.0038	J	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE9		E3HF0		E3HF1		E3HF2		E3HF5	
Sampling Location :	PZ-6		PZ-7		R-01		R-02		TW-1	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.0018	J
Endrin	0.10	U	0.10	U	0.0026	J	0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.0029	J	0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HF6		PBLKW1							
Sampling Location :	TW-4									
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	11/10/2009									
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	6.0									
Dilution Factor :	1.0		1.0							
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U						
beta-BHC	0.050	U	0.050	U						
delta-BHC	0.050	U	0.050	U						
gamma-BHC (Lindane)	0.050	U	0.050	U						
Heptachlor	0.050	U	0.050	U						
Aldrin	0.050	U	0.050	U						
Heptachlor epoxide	0.050	U	0.050	U						
Endosulfan I	0.050	U	0.050	U						
Dieldrin	0.0020	J	0.10	U						
4,4'-DDE	0.10	U	0.10	U						
Endrin	0.10	U	0.10	U						
Endosulfan II	0.10	U	0.10	U						
4,4'-DDD	0.10	U	0.10	U						
Endosulfan sulfate	0.10	U	0.10	U						
4,4'-DDT	0.10	U	0.10	U						
Methoxychlor	0.50	U	0.50	U						
Endrin ketone	0.10	U	0.10	U						
Endrin aldehyde	0.10	U	0.10	U						
alpha-Chlordane	0.050	U	0.050	U						
gamma-Chlordane	0.050	U	0.050	U						
Toxaphene	5.0	U	5.0	U						

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Number of Soil Samples : 0
Number of Water Samples : 19
Number of Sediment Samples : 0

Sample Number :	ABLKW1		E3HD4		E3HD4MS		E3HD4MSD		E3HD5	
Sampling Location :			MS-3		MS-3		MS-3		MW-22	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :			11/10/2009						11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :			6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	1.0	U	2.2		2.2		1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	2.4		2.4		1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HD6		E3HD7		E3HD8		E3HD9		E3HE0	
Sampling Location :	MW-5		MW-6		MW-7		MW-8		MW-9	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE1		E3HE2		E3HE3		E3HE4		E3HE7	
Sampling Location :	P-2		P-2A		P-3		P-3A		PZ-23I	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HE8		E3HE9		E3HF0		E3HF1		E3HF2	
Sampling Location :	PZ-5		PZ-6		PZ-7		R-01		R-02	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/10/2009		11/10/2009		11/10/2009		11/10/2009		11/10/2009	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.0		6.0		6.0		6.0		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HD4
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer : D. CONNET
Date : 2/4/2010

Sample Number :	E3HF5		E3HF6							
Sampling Location :	TW-1		TW-4							
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	11/10/2009		11/10/2009							
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	6.0		6.0							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	1.0	U						
Aroclor-1221	1.0	U	1.0	U						
Aroclor-1232	1.0	U	1.0	U						
Aroclor-1242	1.0	U	1.0	U						
Aroclor-1248	1.0	U	1.0	U						
Aroclor-1254	1.0	U	1.0	U						
Aroclor-1260	1.0	U	1.0	U						
Aroclor-1262	1.0	U	1.0	U						
Aroclor-1268	1.0	U	1.0	U						

National Functional Guidelines Report # 9

16:57 Fri, Nov 27, 200

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HD6 Location=MW-5 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
134-62-3	Diethyltoluamide	9.6253	2.2405	ug/L	JN

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HE0 Location=MW-9 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	6.5038	ug/L	J
	Chlorinated aromatic	6.1349	15.5956		J
	Unknown oxyhydrocarbon	13.0064	7.3767		J
	Unknown	13.7324	2.0823		J
	Unknown	14.5913	12.6946		J
	Unknown aromatic	14.6834	5.5328		J
4792-15-8	Pentaethylene glycol	15.8286	15.9844		JN
	Unknown	15.9922	3.6221		J
	Unknown	16.0843	2.5628		J
	Unknown	17.3624	5.0058		J

National Functional Guidelines Report # 9

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Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HE0DL Location=No_TR_data Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Polycyclic hydrocarbon	3.9304	112.5904	ug/L	JD

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HE1 Location=P-2 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes		22.0893	ug/L	J
	Chlorinated aromatic	6.1392	13.8626		J
	Unknown oxyhydrocarbon	13.0005	10.2892		J
	Unknown oxyhydrocarbon	13.4913	4.8191		J
	Unknown	14.5957	11.2486		J
	Unknown	14.6877	7.9122		J
	Unknown	15.5057	4.6216		J
	Unknown	15.8227	8.6432		J
1786-94-3	3,6,9,12,15-Pentaoxanonadecan-1-ol	17.3668	7.2071		JN
	Unknown	24.5655	2.4332		J

National Functional Guidelines Report # 9

16:57 Fri, Nov 27, 200

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HE4 Location=P-3A Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown oxyhydrocarbon	13.6202	3.9133	ug/L	J
	Unknown oxyhydrocarbon	15.9414	2.975		J

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HF5 Location=TW-1 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	13.1887	ug/L	J
	Brominated compound	5.2491	9.9674		J
	Unknown	5.4843	2.7601		J
	Chlorinated aromatic	6.1489	15.3306		J
	Unknown	9.3392	2.7362		J
	Unknown	11.3332	4.6522		J
	Unknown oxyhydrocarbon	12.9898	6.431		J
	Unknown	13.4806	7.3883		J
	Unknown	14.5849	7.4577		J
	Unknown	14.6974	11.4648		J
	Polycyclic hydrocarbon	14.8303	2.0094		J
	Unknown	14.9633	5.2756		J
	Unknown	15.1678	2.0562		J
	2-Indolyl-3-phenylacrylonitrile	15.3723	2.1421		J
	Unknown	15.5052	2.9061		J
	Unknown	15.8222	8.3484		J
	Polycyclic hydrocarbon	16.6402	2.0962		J
	Unknown	17.356	4.1125		J
	Unknown	17.4787	2.1174		J
	Unknown	17.7548	2.0759		J
	Unknown	24.5241	4.5515		J

National Functional Guidelines Report # 9

16:57 Fri, Nov 27, 200

Lab DATAC (ALS Laboratory Group) **SDG** E3HD4 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81787 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HF6 Location=TW-4 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Chlorinated aromatic	6.0882	14.1936	ug/L	J
	Unknown	11.3543	2.4494		J
	Unknown	12.9904	6.0342		J
	Unknown	13.4812	4.9252		J
	Unknown	14.5856	6.0392		J
	Unknown	14.6878	6.7045		J
	Unknown	14.9639	2.2357		J
	Unknown	15.4956	3.0212		J
	Unknown	15.5774	3.0601		J
	Unknown	15.8228	10.9148		J
	Polycyclic hydrocarbon	15.9967	2.4251		J
	Unknown	16.2625	3.5294		J
	Unknown	17.3567	4.1487		J

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 30 NOV 09

FROM: Stephen L. Ostrodka, Chief (**SRT-5J**)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data for the following case:

SITE NAME: Hartland Well #3 (WI)

CASE NUMBER: 39181 SDG NUMBER: E3HD4

Number and Type of Samples: 21 water samples

Sample Numbers: E3HD4-D9; E0-E4; E7-E9; F0-F6

Laboratory: ALS DataChem Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SRT-5J**

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: E3HD4

☒ ARO ☒ PEST ☒ BNA ☐ BNASIM ☐ VT ☐ VOASIM ☒ VLM

Laboratory Name: DataChem Laboratories, Inc.

Laboratory Code: DATAC

Contract No.: EPW05026

Case No.: 39181

Analysis Price: N/A

SDG Turnaround: 14

Modified Analysis Requested: NO

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E3HD4	7) E3HE0	13) E3HE8	19) E3HF4
2) E3HD5	8) E3HE1	14) E3HE9	20) E3HF5
3) E3HD6	9) E3HE2	15) E3HF0	21) E3HF6
4) E3HD7	10) E3HE3	16) E3HF1	22)
5) E3HD8	11) E3HE4	17) E3HF2	23)
6) E3HD9	12) E3HE7	18) E3HF3	24)

E3HD4

First Sample in SDG

E3HF6

Last Sample in SDG

11/12/09

First Sample Receipt Date

11/12/09

Last Sample Receipt Date

Note: *There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach the TR/COC records to this form in alphanumeric order (the order listed above on this form).*

Signature: Merrell Edwards

Date: 11/14/2009

9317041

ntract Laboratory Program
'affic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	11/11/09 16:20		11-11-09 16:25
2	11.11.09 16:20		11-11-09 16:25
3	11.11.09 16:20		11-11-09 16:25
4	11-11-09 16:25		11/12/09 1100

For Lab Use Only

Lab Contract No: EMS 5026
Unit Price: N/A
Transfer To: 11/12/09
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HD4	Municipal Water Supply/ Dave Volkert	L/G	CLP VOA-LO (14)	5C-093055 (HCL), 5C-093056 (HCL), 5C-093057 (HCL), 5C-093058 (HCL), 5C-093059 (HCL), 5C-093060 (HCL), 5C-093061 (HCL), 5C-093062 (HCL), 5C-093063 (HCL) (9)	MS-3	S: 11/10/09	10:00	ME3HD4	
E3HD5	Ground Water/ John Hnat	L/G	CLP VOA-LO (14)	5C-093078 (HCL), 5C-093079 (HCL), 5C-093080 (HCL) (3)	MW-22	S: 11/10/09	11:56	ME3HD5	
E3HD6	Ground Water/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093087 (HCL), 5C-093088 (HCL), 5C-093089 (HCL) (3)	MW-5	S: 11/10/09	16:07	ME3HD6	
E3HD7	Ground Water/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093096 (HCL), 5C-093097 (HCL), 5C-093098 (HCL) (3)	MW-6	S: 11/10/09	11:27	ME3HD7	
E3HD8	Ground Water/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093105 (HCL), 5C-093106 (HCL), 5C-093107 (HCL) (3)	MW-7	S: 11/10/09	10:19	ME3HD8	
E3HD9	Ground Water/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093114 (HCL), 5C-093115 (HCL), 5C-093116 (HCL) (3)	MW-8	S: 11/10/09	11:27	ME3HD9	
E3HE0	Ground Water/ Dave Volkert	L/G	CLP VOA-LO (14)	5C-093123 (HCL), 5C-093124 (HCL), 5C-093125 (HCL) (3)	MW-9	S: 11/10/09	11:27	ME3HE0	
E3HE1	Ground Water/ Dave Volkert	L/G	CLP VOA-LO (14)	5C-093132 (HCL), 5C-093133 (HCL), 5C-093134 (HCL) (3)	P-2	S: 11/10/09	11:27	ME3HE1	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E3HD4		3°	186174 / 186175

Analysis Key: CLP VOA-LO = CLP VOA-LOW

Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-004435316-111109-0004

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: Jim Delwiche

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jim Delwiche	11/11/09 16:20	John Kuehling	11-11-09 16:25
2 John Hnat	11.11.09 16:20	John Kuehling	11-11-09 16:25
3 [illegible]	11.11.09 16:20	John Kuehling	11-11-09 16:25
4 John Kuehling	11-11-09 16:25	[illegible]	11/12/09 1100

For Lab Use Only

Lab Contract No:	EPM05026
Unit Price:	N/A
Transfer To:	[illegible] 11/12/09
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HE2	Ground Water/ John Hnat	L/G	CLP VOA-LO (14)	5C-093141 (HCL), 5C-093142 (HCL), 5C-093143 (HCL) (3)	P-2A	S: 11/10/09	14:29	ME3HE2	
E3HE3	Ground Water/ Dave Volkert	L/G	CLP VOA-LO (14)	5C-093150 (HCL), 5C-093151 (HCL), 5C-093152 (HCL) (3)	P-3	S: 11/10/09	14:41	ME3HE3	
E3HE4	Ground Water/ Dave Volkert	L/G	CLP VOA-LO (14)	5C-093159 (HCL), 5C-093160 (HCL), 5C-093161 (HCL) (3)	P-3A	S: 11/10/09	13:40	ME3HE4	
E3HE7	Ground Water/ John Hnat	L/G	CLP VOA-LO (14)	5C-093186 (HCL), 5C-093187 (HCL), 5C-093188 (HCL) (3)	PZ-23I	S: 11/10/09	12:41	ME3HE7	
E3HE8	Ground Water/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093195 (HCL), 5C-093196 (HCL), 5C-093197 (HCL) (3)	PZ-5	S: 11/10/09	13:55	ME3HE8	
E3HE9	Ground Water/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093205 (HCL), 5C-093206 (HCL), 5C-093264 (HCL) (3)	PZ-6	S: 11/10/09	11:58	ME3HE9	
E3HF0	Ground Water/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093215 (HCL), 5C-093265 (HCL), 5C-093266 (HCL) (3)	PZ-7	S: 11/10/09	9:40	ME3HF0	
E3HF1	Field QC/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093222 (HCL), 5C-093223 (HCL), 5C-093224 (HCL) (3)	R-01	S: 11/10/09	14:37	ME3HF1	
E3HF2	Field QC/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093231 (HCL), 5C-093232 (HCL), 5C-093233 (HCL) (3)	R-02	S: 11/10/09	14:42	ME3HF2	
E3HF3	Field QC/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093240 (HCL), 5C-093241 (HCL), 5C-093242 (HCL) (3)	TB-1	S: 11/10/09	14:33		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E3HD4	[illegible]	3	186174/186175

Analysis Key: CLP VOA-LO = CLP VOA-LOW

Concentration: L = Low, M = Low/Medium, H = High

Type/Designate: Composite = C, Grab = G

Custody Seal Intact? Y

Shipment Iced? Y

TR Number: 5-004435316-111109-0004

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: Jim Delwiche

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jim Delwiche	11/11/09 16:20	John Krabling	11-11-09 16:25
2 John Hnat	11.11.09 16:20	John Krabling	11-11-09 16:25
3 D.S. Vehe	11.11.09 16:20	John Krabling	11-11-09 16:25
4 John Krabling	11-11-09 16:25	Merrill Edwards	11/12/09 1078

For Lab Use Only

Lab Contract No:	EPM05026
Unit Price:	N/A
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HF4	Field QC/ Jim Delwiche	L/G	CLP VOA-LO (14)	5C-093243 (HCL), 5C-093244 (HCL), 5C-093245 (HCL) (3)	TB-2	S: 11/10/09	14:35		
E3HF5	Ground Water/ John Hnat	L/G	CLP VOA-LO (14)	5C-093246 (HCL), 5C-093247 (HCL), 5C-093248 (HCL) (3)	TW-1	S: 11/10/09	9:20	ME3HF5	
E3HF6	Ground Water/ John Hnat	L/G	CLP VOA-LO (14)	5C-093255 (HCL), 5C-093256 (HCL), 5C-093257 (HCL) (3)	TW-4	S: 11/10/09	10:52	ME3HF6	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E3HD4	John Hnat / D.S. Vehe	3	186174 / 186175

Analysis Key: CLP VOA-LO = CLP VOA-LOW

Concentration: L = Low, M = Low/Medium, H = High

Type/Designate: Composite = C, Grab = G

Custody Seal Intact? Y

Shipment Iced? Y

TR Number: 5-004435316-111109-0004

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: Jim Delwiche

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jim Delwiche	11/11/09 16:40	Jen Kurtz	11-11-09 16:45
2 Jen Kurtz	11-11-09 16:45	[illegible]	11/12/09 10:05
3			
4			

For Lab Use Only

Lab Contract No: EPM5026
Unit Price: MN
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HE8	Ground Water/ Jim Delwiche	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093198, 5C-093199, 5C-093200, 5C-093201 (4)	PZ-5	S: 11/10/09	13:55	ME3HE8	
E3HE9	Ground Water/ Jim Delwiche	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093207, 5C-093208, 5C-093209, 5C-093210 (4)	PZ-6	S: 11/10/09	11:58	ME3HE9	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3	Chain of Custody Seal Number: 136374/136375
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CLP-PEST; = CLP-PEST; PCBS, CLP-SVOA-L = CLP-SVOA-LOW

TR Number: 5-004435316-111109-0008

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
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F2V5.1. 047 Page 1 of 1

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HP4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	11.11.09 15:46		
2 [signature]	11.11.09. 15:46	[signature]	11/12/09 | 1032
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: EPM5026
Unit Price: N/A
Transfer To: [signature] 11/12/09
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HE2	Ground Water/ John Hnat	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093144, 5C-093145, 5C-093146, 5C-093147 (4)	P-2A	S: 11/10/09 14:29	ME3HE2	[signature] 11/12/09
E3HE4	Ground Water/ Dave Volkert	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093162, 5C-093163, 5C-093164, 5C-093165 (4)	P-3A	S: 11/10/09 13:40	ME3HE4	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 6°	Chain of Custody Seal Number: 136378/136379
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CLP-PEST; = CLP-PEST; PCBS, CLP-SVOA-L = CLP-SVOA-LOW

TR Number: 5-004435316-111109-0010

LABORATORY COPY

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	11/11 16:15	~~[signature]~~	~~11/11 16:15~~ SD 11/11
2 [signature]	11-11-09 16:20	[signature]	11-11-09 16:20
3		[signature]	11/12/09 / 1004
4			

For Lab Use Only

Lab Contract No:	EPAD 5026
Unit Price:	N/A
Transfer To:	
Lab Contract No:	
Unit Price:	

[initials] 11/12/09

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HD6	Ground Water/ Jim Delwiche	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093090, 5C-093091, 5C-093092, 5C-093093 (4)	MW-5	S: 11/10/09	16:07	ME3HD6	[initials] 11/12/09
E3HF0	Ground Water/ Jim Delwiche	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093216, 5C-093217, 5C-093218, 5C-093219 (4)	PZ-7	S: 11/10/09	9:40	ME3HF0	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.	Chain of Custody Seal Number: 136380/136381
Analysis Key: CLP-PEST; = CLP-PEST; PCBS, CLP-SVOA-L = CLP-SVOA-LOW	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-004435316-111109-0011

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	John Hnat	11.11.09 15:46	John Krahling	11-11-09 15:50
2	John Krahling	11-11-09 15:50	[illegible]	11/12/09 [illegible]
3				
4				

Sampler Signature:

For Lab Use Only

Lab Contract No:	EPA 5D26
Unit Price:	N/A
Transfer To:	[illegible] 11/12/09
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HD5	Ground Water/ John Hnat	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093081, 5C-093082, 5C-093083, 5C-093084 (4)	MW-22	S: 11/10/09	11:56	ME3HD5	[illegible] 11/12/09
E3HF6	Ground Water/ John Hnat	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093258, 5C-093259, 5C-093260, 5C-093261 (4)	TW-4	S: 11/10/09	10:52	ME3HF6	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°	Chain of Custody Seal Number: 136376 / 136377
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CLP-PEST; = CLP-PEST; PCBS, CLP-SVOA-L = CLP-SVOA-LOW

TR Number: 5-004435316-111109-0009

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1. 047 Page 1 of 1

00026

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: Jim Delwiche

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jim Delwiche	11/11 15:45	John Krabling	11-11-09 15:50
2 John Krabling	11-11-09 15:50	[illegible]	11/12/09 [illegible]
3			
4			

For Lab Use Only

Lab Contract No:	EPM 5026
Unit Price:	N/A
Transfer To:	[illegible] 11/12/09
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HD7	Ground Water/ Jim Delwiche	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093099, 5C-093100, 5C-093101, 5C-093102 (4)	MW-6	S: 11/10/09	11:27	ME3HD7	[illegible] 11/12/09
E3HD9	Ground Water/ Jim Delwiche	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093117, 5C-093118, 5C-093119, 5C-093120 (4)	MW-8	S: 11/10/09	11:27	ME3HD9	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°	Chain of Custody Seal Number: 136372 / 136373
Analysis Key: CLP-PEST; = CLP-PEST; PCBS, CLP-SVOA-L = CLP-SVOA-LOW	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-004435316-111109-0007

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

LABORATORY COPY

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	11/11 14:15 11/11/09 14:45	[signature]	11-11-09 14:20
2 [signature]		[signature]	11-11-09 14:20
3 [signature]	11-11-09 14:20	[signature]	11/12/09 / 1000
4			

For Lab Use Only

Lab Contract No:	EPM5026
Unit Price:	N/A
Transfer To:	[initials] 11/12/09
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HF2	Field QC/ Jim Delwiche	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093234, 5C-093235, 5C-093236, 5C-093237 (4)	R-02	S: 11/10/09	14:42	ME3HF2	[initials] 11/12/09
E3HF5	Ground Water/ John Hnat	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093249, 5C-093250, 5C-093251, 5C-093252 (4)	TW-1	S: 11/10/09	9:20	ME3HF5	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°	Chain of Custody Seal Number: 136384/136385
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CLP-PEST; = CLP-PEST; PCBS, CLP-SVOA-L = CLP-SVOA-LOW

TR Number: 5-004435316-111109-0013

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PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

F2V5.1. 047 Page 1 of 1

00028

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1)	11.11.09 16:50		11-11-09 16:55
2)	11-11-09 16:55		11/12/09 1108
3)			
4			

For Lab Use Only

Lab Contract No: EPW05026
Unit Price: N/A
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HD4	Municipal Water Supply/ Dave Volkert	L/G	CLP-SVOA-L (14)	5C-093070, 5C-093071, 5C-093072, 5C-093073, 5C-093074, 5C-093075 (6)	MS-3	S: 11/10/09	10:00	ME3HD4	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E3HD4	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°	Chain of Custody Seal Number: 136388/136389
Analysis Key: CLP-SVOA-L = CLP-SVOA-LOW	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-004435316-111109-0015

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Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

LABORATORY COPY

00029

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HP4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	11.11.09 16:02		11-1/-09 16:05
2	11-11-09 16:05		11/12/09 1002
3			
4			

For Lab Use Only

Lab Contract No: EPW 5026
Unit Price: N/A
Transfer To: 11/12/09
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HE0	Ground Water/ Dave Volkert	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093126, 5C-093127, 5C-093128, 5C-093129 (4)	MW-9	S: 11/10/09 11:27	ME3HE0	11/12/09
E3HE1	Ground Water/ Dave Volkert	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093135, 5C-093136, 5C-093137, 5C-093138 (4)	P-2	S: 11/10/09 11:27	ME3HE1	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3°	Chain of Custody Seal Number: 186176 / 186177
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

CLP-PEST; = CLP-PEST; PCBS, CLP-SVOA-L = CLP-SVOA-LOW

TR Number: 5-004435316-111109-0005

LABORATORY COPY

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Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: Jim Delwiche

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jim Delwiche	11/11 16:10	John Kuehling	11-11-09 16:20
2 John Kuehling	11-11-09 16:20	[illegible]	11/12/09 1100
3			
4			

For Lab Use Only

Lab Contract No: EP W05026
Unit Price: N/A
Transfer To: [illegible] 11/12/09
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HD8	Ground Water/ Jim Delwiche	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093108, 5C-093109, 5C-093110, 5C-093111 (4)	MW-7	S: 11/10/09	10:19	ME3HD8	[illegible] 11/12/09
E3HF1	Field QC/ Jim Delwiche	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093225, 5C-093226, 5C-093227, 5C-093228 (4)	R-01	S: 11/10/09	14:37	ME3HF1	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 7	Chain of Custody Seal Number: 136382/136383
Analysis Key: CLP-PEST; = CLP-PEST; PCBS, CLP-SVOA-L = CLP-SVOA-LOW	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

TR Number: 5-004435316-111109-0012

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00001

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HD4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	848761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	11.09 1605		11-11-09 16:16
2	11-11-09 16:16		11/12/09
3			
4			

For Lab Use Only

Lab Contract No: EPA 5026
Unit Price: N/A
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HD4	Municipal Water Supply/ Dave Volkert	L/G	CLP-PEST; (14)	5C-093064, 5C-093065, 5C-093066, 5C-093067, 5C-093068, 5C-093069 (6)	MS-3	S: 11/10/09	10:00	ME3HD4	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E3HD4		3°	136384/136387

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

Custody Seal Intact? ✓ Shipment Iced? ✓

CLP-PEST; = CLP-PEST; PCBS

TR Number: 5-004435316-111109-0014

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HP4

L

Date Shipped:	11/11/09
Carrier Name:	FedEx
Airbill:	846761795265
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	11.11.09 15:46	[signature]	11-11-09 15:50
2 [signature]	11.11.09 15:46		
3 [signature]	11-11-09 15:50	[signature]	11/12/09 1008
4			

For Lab Use Only

Lab Contract No:	EPW05026
Unit Price:	N/A
Transfer To:	[initials] 11/12/09
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HE3	Ground Water/ Dave Volkert	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093153, 5C-093154, 5C-093155, 5C-093156 (4)	P-3	S: 11/10/09 14:41	ME3HE3	[initials] 11/12/09
E3HE7	Ground Water/ John Hnat	L/G	CLP-PEST; (14), CLP-SVOA-L (14)	5C-093189, 5C-093190, 5C-093191, 5C-093192 (4)	PZ-23I	S: 11/10/09 12:41	ME3HE7	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5	Chain of Custody Seal Number: 136370/136371
Analysis Key: CLP-PEST; = CLP-PEST; PCBS, CLP-SVOA-L = CLP-SVOA-LOW	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-004435316-111109-0006

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00033

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS

SDG Narrative
Low/Medium Volatiles

Contract: EPW05026
Case: 39181
SDG: E3HD4

Laboratory Name: ALS Datachem Laboratories

Sample Number	DCL Sample ID	pH	Dilution
E3HD4	9317041001	1	
E3HD4MS	9317041002	1	
E3HD4MSD	9317041003	1	
E3HD5	9317041004	1	
E3HD6	9317041005	1	
E3HD7	9317041006	6	
E3HD8	9317041007	1	
E3HD9	9317041008	1	
E3HE0	9317041009	1	
E3HE1	9317041010	1	
E3HE2	9317041011	1	
E3HE3	9317041012	1	
E3HE4	9317041013	1	
E3HE7	9317041014	1	
E3HE8	9317041015	1	
E3HE9	9317041016	1	
E3HF0	9317041017	1	
E3HF1	9317041018	1	
E3HF2	9317041019	1	
E3HF3	9317041020	1	
E3HF4	9317041021	1	
E3HF5	9317041022	1	
E3HF6	9317041023	1	

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There were no deviations from the SOW except as listed below.

Instrumentation: Hewlett Packard 5971-M GC/MSD with electron impact ionization and quadrupole detector scanning at a mass range of 35 to 300 amu.
Column: J&W Scientific DB624 - 75meters, 0.53 mm id., 3 µm film
Temperature Program: 45°C (3.5 min) 10°/min ramp to 220°

Purge and Trap Device: Varian Archon autosampler/Tekmar Dynamic Headspace Concentrator /LSC 2000
Carrier Gas: Helium Purge Gas: Helium
Purge Flow: 35 mL/min Trap: Vocarb 3000 Trap Temp: 35°C

Sample Preparation: This method has no extraction procedure for the water matrix. Five milliliters of water sample was spiked with Internal Standard/DMC Solution and purged.

Instrument Calibration: The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-Bromofluorobenzene as specified in the SOW. This tune check is valid for 12 hours.

Initial and Continuing Calibration Verification: The five point initial calibration curve, which was analyzed prior to sample analysis, met the specified criteria in the SOW except for the minimum RRF for the Dioxanes. Due to an interfering ion from 1,2-Dichloropropane, a secondary ion of 55 was used for the quantitation of Methylcyclohexane for all calibrations, blanks, and samples analyzed on 5971-M. A continuing calibration standard (CCAL) was analyzed prior to sample analysis. A final calibration standard (FCAL) was analyzed after sample analysis. All calibration standards met all method criteria as specified in the SOW except for the minimum RRF for the Dioxanes. Occasionally, manual edits are made in some samples and standards for various mis-called or incorrectly integrated peaks. Every manual integration is noted by an "m" footnote on the quantitation report, and an additional graphics page is included for each manual integration to show how the peak was integrated. Analytes that required manual integrations are listed.

Sample	Initial Scan	Final Scan	Analyte
VSTD050F2	686	717	Carbon tetrachloride
VSTD050F2	1036	1083	2-Hexanone

Blank Analysis: Method blanks were prepared using 5 mL of spiked reagent water. The blanks were analyzed prior to sample analysis and were free of volatile organic contaminants within the specifications of the SOW.

Sample Analysis: All deuterated monitoring compounds and internal standard area responses were within the required acceptance criteria. All samples were analyzed within ten days of verified sample receipt.

MS/MSD Analysis: Matrix spike (MS) and matrix spike duplicate (MSD) analyses for the water samples were performed using sample E3HD4. The matrix spike compounds are 1,1-Dichloroethene, Benzene, Trichloroethene, Toluene and Chlorobenzene; each is spiked in at a concentration of 50 µg/L. All percent recoveries and RPD's were within QC limits.

Miscellaneous Comments: As instructed in the SOW, alkanes are not reported separately on the Form 1J but rather are summarized as "total alkanes."

With regard to the naming of tentatively-identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has a specific reason to assign a different name. The exact isomer configuration, as reported, may not be absolutely accurate. Reasons for assigning a TIC name other than the match with the highest fit value above 85% include: instances in which the

analyst has previous experience with respect to a specific compound; when the first computer-generated match is a target compound and retention time information clearly indicates the TIC is in fact not the target compound; and when a specific compound name has already been assigned to a peak. Even though specific names will usually be given to TICs with spectral fits above 85%, it must be understood by the data user that TIC names are very tentative, and it cannot be assumed that the specific isomers reported are correct.

Sample Calculations:

Relative Response Factor: $$RRF = \left[\frac{A_x}{A_{is}}\right]\left[\frac{C_{is}}{C_x}\right]$$

Where A_x is the area of the characteristic ion for the compound to be measured, A_{is} is the area of the characteristic ion for the internal standard , C_{is} is the concentration of the internal standard, and C_x is the concentration of the compound to be measured.

Concentration in ug/L: $$C = \left[\frac{(A_x)\,(I_s)\,(Df)}{(A_{is})\,(RRF)\,(V_o)}\right]$$

Where I_s is the amount of internal standard spiked in ng (250 ng), Df is a dilution factor (1 if no dilutions are made), RRF is the mean relative response factor (assumed to be 1 for non target analytes) and V_o is the total volume purged in mL.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

November 24, 2009

Joseph Gress
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract: EP-W-05-026
Case: 39181
SDG: E3HD4
Laboratory Name: DataChem Laboratories
DCL Set ID.: 9317041
Sample No.: E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE0DL, E3HE1, E3HE1DL, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF5, E3HF5DL, E3HF6, E3HF6DL.
General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There are no deviations from the SOW. All samples listed above are billable.

Instrumentation: Agilent GC/MS system (ID 5972-N)
Column: J&W Scientific DB-5ms column, 95% dimethyl-(5%)-diphenylsiloxane, nonpolar 30 m x 0.32 mm I.D. with a 0.50 µm film thickness

Sample Preparation: Samples were prepared as stated in the SOW.

Instrument Calibration: (i.e.DFTPP tunes) All tunes met ion intensity ratio requirements. All samples and standards were analyzed within the twelve hour CCV period.

Initial and Continuing Calibration Verification: All initial and continuing calibration standards met minimum response factor, RSD and %D criteria.

Blank Analysis: The extraction blank met method criteria.

Sample Analysis: All samples passed internal standard area and DMC recovery QC criteria.

MS/MSD Analysis: An MS/MSD analysis was performed on Sample E3HD4.

Dilutions: The following dilutions were required for this SDG (with dilution factors in parentheses): E3HE0 (16), E3HE1 (20), E3HF5 (25) and E3HF6 (10).

Miscellaneous Comments: Manual edits were made in the calibration standards for a variety of miscalled peaks. Every manual integration is noted by an "m" footnote on the quantitation report, and an additional graphics page is included for each manual integration to show how the peak was integrated. In order to satisfy the requirements of Exhibit B Section 2.5.1 which asks for a listing of each instance of manual integration, these manual integrations are also listed in the table below. The explanation for each

of these manual integrations is that the data system did not correctly integrate the peak in its automated data evaluation procedure. More specifically, some of the more common mis-integrated peaks are described as follows: Indeno(1,2,3-c,d)pyrene elutes near dibenz(a,h)anthracene, and a hump from the 276 ion in dibenz(a,h)anthracene sometimes needs to be manually excluded from Indeno(1,2,3-c,d)pyrene. Isomers such as anthracene and benzo(a)anthracene are often called as the similar and near-eluting phenanthrene or chrysene peak. Benzo(b) and Benzo(k)fluoranthene elute very closely to each other without baseline resolution between the two peaks. The automated peak finding routine quite often integrates both peaks as if they were one, and it is necessary to manually separate the isomers. 4-chloroaniline sometimes has the baseline drawn too high when the computer gets confused because of a near-eluting peak causing it to think the valley between peaks is actually the baseline. Bis(2-chloroethyl)ether sometimes needs to be manually separated from the near-eluting aniline. Caprolactam has a tail, especially at higher concentrations, that is often truncated, leaving the need to manually include the tail. Some phenolics and carbazole sometimes have the need to manually include the tailing. Acetophenone sometimes needs to be manually separated from a near-eluting 3-carbon alklyated benzene TIC peak. Benzo(ghi)perylene and dibenz(a,h)anthracene will sometimes be sliced in half by the automatic integration routine and a manual integration would be needed to include the entire peak. Perylene-d12 in the SIM analysis often needs to be manually separated from the baseline arising from benzo(a)pyrene-d12, a near-eluting and considerably larger isomer peak. Sometimes the automatic peak finding routine will simply miss a peak, making it necessary to manually include it. This was the case with all analytes not mentioned above.

Sample	Analyte	RT (min)	Scan start-stop	
E3HD7	Phenanthrene	11.64	757	767
E3HE8	Caprolactam	6.75	281	292
SSTD080ND	4-Chloroaniline	6.35	244	259
SSTD080ND	Caprolactam	6.88	292	319
SSTD040ND	4-Chloroaniline	6.34	242	250
SSTD040ND	Caprolactam	6.82	286	305
SSTD005ND	4-Chloroaniline	6.33	241	250

With regard to the naming of tentatively-identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has a specific reason to assign a different name. Reasons for assigning a TIC name other than the match with the highest fit value above 85% include instances in which the analyst has previous experience with respect to a specific compound. When the first computer-generated match is a target compound and retention time information clearly indicates the TIC is in fact not the target compound, the analyst reserves the right to give a more appropriate tentative identification. There may be instances in which a specific compound name is assigned to more than one peak. Even though specific names will usually be given to TICs with spectral fits above 85%, it must be understood by the data user that TIC names are very tentative, and it cannot be assumed that the specific isomers reported are correct. One case where specific names are not given to spectral matches above 85% is for alkanes, because the SOW requires alkanes to be reported as either straight-chain, branched or cyclic and summarized as "total alkanes."

Results on the raw data are expressed in units of ug/mL (micrograms per milliliter of the solution that was injected onto the GC/MS system). Final results are calculated by the following equations:

Water:

$$\text{Concentration } \mu g/L = \frac{(A_x)\ (I_s)\ (V_t)\ (DF)\ (GPC)}{(A_{is})\ (\overline{RRF})\ (V_o)\ (V_i)}$$

Soil:

$$\text{Concentration } \mu g/Kg \text{ (Dry weight basis)} = \frac{(A_x)\ (I_s)\ (V_t)\ (DF)\ (GPC)}{(A_{is})\ (\overline{RRF})\ (V_i)\ (W_s)\ (D)}$$

where all variables are as defined in Exhibit D/SVOA Sections 11.2.1.6 and 9.3.4.1.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

11.20.09

Seaman W. Barker - Chemist November 20, 2009

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS

SDG Narrative
Pesticides

Laboratory Name: DataChem Laboratories
Case: 39181
SDG: E3HD4
EPA Sample Numbers: E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF5, and E3HF6.
Contract Number: EP-W-05-026

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. All above samples are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within sample preparation hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All requirements for continuing calibration were met.

Sample Analysis: All samples were analyzed within SOW specified hold times.

Dilutions: No dilutions were performed.

Blank Analysis: No analytes were detected in the method blank above the CRQLs.

LCS Analysis: All recoveries were within established limits

MS/MSD Analysis: The recovery for Endrin in the MS on the A column was outside established limits. All other recoveries and RPDs were within established limits.

Surrogates: All samples passed SOW surrogate criteria.

Miscellaneous Comments: None.

This chart summarizes the amount (ng) of each compound in each type of standard:

	RESC##	PEM##	TOXAPH1##	TOXAPH2##	TOXAPH3##	TOXAPH4##	TOXAPH5##	INDC1##	INDC2##	INDC3##	INDC4##	INDC5##	PIBLK##
alpha-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
beta-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
delta-BHC	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
Heptachlor	0.04							0.01	0.02	0.04	0.08	0.20	
Aldrin	0.04							0.01	0.02	0.04	0.08	0.20	
Heptachlor epoxide	0.04							0.01	0.02	0.04	0.08	0.20	
Endosulfan I	0.04							0.01	0.02	0.04	0.08	0.20	
Dieldrin	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDE	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin	0.08	0.1						0.02	0.04	0.08	0.16	0.40	
Endosulfan II	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDD	0.08							0.02	0.04	0.08	0.16	0.40	
Endosulfan sulfate	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDT	0.08	0.2						0.02	0.04	0.08	0.16	0.40	
Methoxychlor	0.40	0.5						0.10	0.2	0.4	0.8	2.0	
Endrin ketone	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin aldehyde	0.08							0.02	0.04	0.08	0.16	0.40	
alpha-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
Toxaphene			1	2	4	8	20						
Tetrachloro-m-xylene	0.04	0.04	0.01	0.02	0.04	0.08	0.20	0.01	0.02	0.04	0.08	0.20	0.04
Decachlorobiphenyl	0.08	0.04	0.02	0.04	0.08	0.16	0.40	0.02	0.04	0.08	0.16	0.40	0.08

Sample equation for Endrin in PLCSW1 (1):

$$\text{Result ug/L} = \frac{\text{(Area response of analyte)(Extract FV uL)(Dilution Factor)(GPC factor)}}{\text{(Ave CF)(uL injected)(mL of Sample)}}$$

$$0.0578 \text{ ug/L} = \frac{(14236)(10000 \text{ uL})(1)(1)}{(1230000)(2 \text{ uL})(1000 \text{ mL})}$$

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

11/23/09

Steven J. Sagers
Pesticide Chemist

Date

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS

SDG Narrative
Aroclors

Laboratory Name: ALS/DataChem
Case: 39181
SDG: E3HD4
EPA Sample Numbers: E3HD4, E3HD4MS, E3HD4MSD, E3HD5, E3HD6, E3HD7, E3HD8, E3HD9, E3HE0, E3HE1, E3HE2, E3HE3, E3HE4, E3HE7, E3HE8, E3HE9, E3HF0, E3HF1, E3HF2, E3HF5, and E3HF6.
Contract Number: EP-W-05-026

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. All samples listed above are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: Restek 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
Restek 0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All continuing calibration requirements were met.

Sample Analysis: The samples were all analyzed within SOW specified hold times.

Dilutions: None.

Blank Analysis: No analytes were detected in the method blank above the CRQL.

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: All of the MS and MSD results were within established limits.

Surrogates: All samples met surrogate recovery criteria.

Miscellaneous Comments: None.

This chart summarizes the amount (ng) of each compound in each type of standard:

	AR12213##	AR12323##	AR12423##	AR12483##	AR12543##	AR12623##	AR12683##	AR16601##	AR16602##	AR16603##	AR16604##	AR16605##	AIBLK##
AR1221	0.8												
AR1232		0.8											
AR1242			0.8										
AR1248				0.8									
AR1254					0.8								
AR1262						0.8							
AR1268							0.8						
AR1016								0.2	0.4	0.8	1.6	3.2	
AR1260								0.2	0.4	0.8	1.6	3.2	
Tetrachloro-m-xylene	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.01	0.02	0.04	0.08	0.16	0.04
Decachlorobiphenyl	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.02	0.04	0.08	0.16	0.32	0.08

Equation for Aroclors in water samples (EQ. 7):

EQ. 7 Concentration Calculation for Water Samples

$$\text{Concentration } \mu g/L = \frac{(A_x)\ (V_t)\ (DF)\ (GPC)}{(\overline{CF})\ (V_o)\ (V_i)}$$

Where,

A_x = Area or height of the peak for the compound to be measured.

$\overline{CF}$ = Mean Calibration Factor from the specific five-point calibration (area/ng).

V_o = Volume of water extracted in mL (Note: for instrument and sulfur blanks assume a volume of 1000 mL).

V_i = Volume of extract injected in µL. (If a single injection is made onto two columns, use one half the volume in the syringe as the volume injected onto each column).

V_t = Volume of the concentrated extract in µL. (If GPC is not performed, then V_t = 10000 µL. If GPC is performed, then $V_t = V_{out}$).

DF = Dilution Factor. The DF for analysis of water samples by this method is defined as follows:

$$\frac{\mu L \text{ most concentrated extract used to make dilution} + \mu L \text{ clean solvent}}{\mu L \text{ most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

$GPC = \frac{V_{in}}{V_{out}}$ = GPC factor. (If no GPC is performed, GPC = 1.0).

V_{in} = Volume of extract loaded onto GPC column.

V_{out} = Volume of extracted collected after GPC cleanup.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Michelle Paradise 11-20-09

Michelle Paradise Date
Chemist

Edwards, Meredith D.

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Friday, November 13, 2009 1:15 PM
To: Edwards, Meredith D.; Olson, Roxanne
Cc: Krahling, John H - DNR; Drews, Mark D - DNR; Brunette, Margaret M - DNR; Carlene Thomas; Howard Pham; Warren Layne
Subject: Region 05 | Case 39181 | Lab DATAC | Issue Multiple | FINAL
Attachments: Organic Case 39181 TR1.pdf; Organic Case 39181 TR2.pdf; Organic Case 39181 TR3.pdf

Roxy,

Summary Start
-Broken samples-
Issue 1: The following samples were received with sample containers broken. There is sufficient volume to analyze the samples.

Sample ID	Tag Number
E3HD4	Tag 5C093069 for PEST
E3HD8	Tag 5C093110 for SVOA.
E3HE7	Tag 5C093190 for PEST

Resolution 1: In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples. If re-extraction/reanalysis is necessary, the laboratory will contact the SMO coordinator and wait for a resolution.

Issue 2: The laboratory Received samples E3HF1 for PEST/ARO and SVOA analysis with 2 broken containers. There are 2 remaining containers. This is insufficient volume to perform analysis on the samples. The laboratory has indicated they may be able to perform a reduced volume extraction/analysis on 1 container for SVOA and 1 container for PEST/ARO.
Resolution 2: Per Region 5, the laboratory will perform a reduced volume extraction/analysis on 1 container for SVOA and 1 container for PEST/ARO. The laboratory will note the Issue in the SDG Narrative and proceed with analysis.

-Insufficient volume-
Issue 3: There laboratory received 21 VOA samples and 19 extractable samples. There is insufficient volume for laboratory QC if these samples are to be placed in 2 SDGs. The laboratory would like to place all 21 samples in a single SDG.
Resolution 3: Per Region 5, the laboratory may place 21 samples in a single SDG. Note the Issue in the SDG Narrative and proceed.
Summary End

Please let me know if you have any questions.

Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Friday, November 13, 2009 2:54 PM
To: Mroz, Ryan
Subject: Re: Region 05 | Case 39181 | Lab DATAC | Issue Multiple

HI Ryan,

Plz made a note and proceed the analyses. Thkx.
Howard Pham, Chemist/Contract Laboratory Program Project Officer
U.S. EPA, Region 5 (SM-5J)
77 West Jackson Blvd.
Chicago, IL. 60604
(312) 353-2310
(312) 385-5407 (fax)
pham.howard@epa.gov

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From: Mroz, Ryan
Sent: Friday, November 13, 2009 11:04 AM
To: 'Carlene Thomas'; 'Howard Pham'; 'Warren Layne'
Cc: 'Krahling, John H - DNR'; Brunette, Margaret M - DNR; 'Drews, Mark D - DNR'
Subject: Region 05 | Case 39181 | Lab DATAC | Issue Multiple

Warren,

DATAC is reporting the following issues with Case 39181. Issue 1 can be resolved with a standard answer. Please advise the laboratory if the PROPOSED Resolutions are acceptable for Issues 2 and 3.

-Broken samples-
Issue 1: The following samples were received with sample containers broken. There is sufficient volume to analyze the samples.

Sample ID	Tag Number
E3HD4	Tag 5C093069 for PEST

E3HD8	Tag 5C093110 for SVOA.
E3HE7	Tag 5C093190 for PEST

Resolution 1: In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples. If re-extraction/reanalysis is necessary, the laboratory will contact the SMO coordinator and wait for a resolution.

Issue 2: The laboratory Received samples E3HF1 for PEST/ARO and SVOA analysis with 2 broken containers. There are 2 remaining containers. This is insufficient volume to perform analysis on the samples. The laboratory has indicated they may be able to perform a reduced volume extraction/analysis on 1 container for SVOA and 1 container for PEST/ARO.
PROPOSED Resolution 2: Per Region 5, the laboratory will perform a reduced volume extraction/analysis on 1 container for SVOA and 1 container for PEST/ARO.

-Insufficient volume-
Issue 3: There laboratory received 21 VOA samples and 19 extractable samples. There is insufficient volume for laboratory QC if these samples are to be placed in 2 SDGs. The laboratory would like to place all 21 samples in a single SDG.
PROPOSED Resolution 3: Per Region 5, the laboratory may place 21 samples in a single SDG.

Please let me know if you have any questions.

Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Brunette, Margaret M - DNR [mailto:Margaret.Brunette@Wisconsin.gov]
Sent: Friday, November 13, 2009 9:41 AM
To: Mroz, Ryan; Krahling, John H - DNR; Drews, Mark D - DNR
Cc: Carlene Thomas; Howard Pham; Warren Layne
Subject: RE: Region 05 | Case 39181 | Lab DATAC | Issue Multiple

Ryan,

Please have the lab proceed to analyze as recommended for Issues 1, 2 and 3.

Margaret Brunette

From: Mroz, Ryan
Sent: Thursday, November 12, 2009 4:27 PM
To: 'Krahling, John H - DNR'; Brunette, Margaret M - DNR; 'Drews, Mark D - DNR'
Cc: 'Carlene Thomas'; 'Howard Pham'; 'Warren Layne'
Subject: Region 05 | Case 39181 | Lab DATAC | Issue Multiple

John,

DATAC is reporting the following issues with Case 39181. Issue 1 can be resolved with a standard answer. Please advise the laboratory how to proceed on Issues 2 and 3.

-Broken samples-
Issue 1: The following samples were received with sample containers broken. There is sufficient volume to analyze the samples.

Sample ID	Tag Number
E3HD4	Tag 5C093069 for PEST
E3HD8	Tag 5C093110 for SVOA.
E3HE7	Tag 5C093190 for PEST

Resolution 1: In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples. If re-extraction/reanalysis is necessary, the laboratory will contact the SMO coordinator and wait for a resolution.

Issue 2: The laboratory Received samples E3HF1 for PEST/ARO and SVOA analysis with 2 broken containers. There are 2 remaining containers. This is insufficient volume to perform analysis on the samples. The laboratory has indicated they may be able to perform a reduced volume extraction/analysis on 1 container for SVOA and 1 container for PEST/ARO.

-Insufficient volume-
Issue 3: There laboratory received 21 VOA samples and 19 extractable samples. There is insufficient volume for laboratory QC if these samples are to be placed in 2 SDGs. The laboratory would like to place all 21 samples in a single SDG.

Please let me know if you have any questions.

Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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such purpose.

From: Olson, Roxanne [mailto:Roxanne.Olson@ALSEnviro.com]
Sent: Thursday, November 12, 2009 3:47 PM
To: Mroz, Ryan
Subject: FW: Organic Case 39181

Ryan:

Please see issues about breakage below as well as a request to place 21 samples in this SDG because the case is now closed.

Roxy

From: Edwards, Meredith D.
Sent: Thursday, November 12, 2009 12:54 PM
To: ALS SLC EPA
Subject: Organic Case 39181

Please advise Region 5 I received a couple of broken samples today.

E3HD4 tag 5C093069 for PEST. I have 11 remaining.
E3HD8 tag 5C093110 for SVOA. I have 3 remaining.
E3HE7 tag 5C093190 for PEST. I have 3 remaining.
E3HF1 tags 5C093225 for PEST and 5C093228 SVOA. I have 2 remaining containers. I am not sure if there is enough volume. Maybe with reduced volume. They can use one container for SVOA and one container for PEST/PCB.

Also I received 21 VOA waters and 19 EXT samples. Can you see if the Region will allow this group to be in one SDG with 21 samples as the case has come in closed and there is not enough volume for MS/MSD for 2 SDG's.

Thanks
Mere

2A - FORM II VOA-1

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E3HD4	89	98	81	72	113	110	107
02	E3HD5	89	100	82	67	113	106	110
03	E3HD6	89	100	82	77	115	113	110
04	E3HD7	90	100	84	78	115	112	113
05	E3HD8	89	100	82	85	116	117	113
06	E3HD9	92	101	83	80	119	116	115
07	E3HE0	93	104	85	86	119	120	115
08	E3HE1	92	102	84	79	118	118	116
09	E3HE2	85	96	77	88	108	110	104
10	E3HE3	87	97	79	82	109	107	107
11	E3HE4	88	98	80	80	112	110	109
12	E3HE7	87	97	79	77	111	110	107
13	E3HE8	88	99	80	81	113	114	110
14	E3HE9	87	98	80	87	113	115	110
15	E3HF0	86	96	80	79	113	111	108
16	E3HF1	90	101	83	83	115	114	116
17	E3HF2	84	95	80	83	111	114	110
18	E3HF3	88	96	79	71	109	106	107
19	E3HF4	87	96	79	72	107	102	105
20	E3HF5	84	96	78	79	113	115	107
21	E3HF6	84	96	80	81	114	114	108
22	E3HD4MS	89	101	114 *	90	118	120	117
23	E3HD4MSD	86	95	111 *	85	116	117	113
24	VBLKW1	90	98	78	81	107	106	104
25	VBLKW2	91	98	78	92	105	101	105
26	VHBLKW1	83	91	78	80	111	112	103
27								
28								
29								
30								

	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	E3HD4	103	104	110	84	101	116	102	0
02	E3HD5	105	106	109	76	88	111	103	0
03	E3HD6	105	106	113	88	103	120	105	0
04	E3HD7	109	107	114	92	111	127 *	113	1
05	E3HD8	112	108	121	97	115	132 *	110	1
06	E3HD9	113	109	120	97	110	130 *	107	1
07	E3HE0	113	108	123 *	103	115	135 *	110	2
08	E3HE1	114	109	121	96	108	129 *	109	1
09	E3HE2	101	102	112	103	163 *	132 *	106	2
10	E3HE3	104	104	112	97	122	128 *	108	1
11	E3HE4	106	104	112	94	112	126 *	103	1
12	E3HE7	104	105	111	87	107	122	109	0
13	E3HE8	107	106	116	96	113	130 *	113	1
14	E3HE9	109	107	118	104	118	134 *	106	1
15	E3HF0	105	104	112	91	107	125	106	0
16	E3HF1	110	105	116	100	109	130 *	104	1
17	E3HF2	104	105	115	95	130	123	104	0
18	E3HF3	102	105	109	82	114	113	106	0
19	E3HF4	99	103	106	82	97	111	100	0
20	E3HF5	105	105	116	93	147	128 *	108	1
21	E3HF6	106	105	114	94	110	127 *	109	1
22	E3HD4MS	114	109	126 *	110	119	140 *	112	3
23	E3HD4MSD	109	107	119	99	113	129 *	109	2
24	VBLKW1	98	104	107	90	107	115	101	0
25	VBLKW2	99	105	105	96	99	113	103	0
26	VHBLKW1	101	106	112	88	109	119	104	0
27									
28									
29									
30									

		QC LIMITS
VDMC8	(DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9	(TOL) = Toluene-d8	(77-121)
VDMC10	(TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11	(HEX) = 2-Hexanone-d5	(28-135)
VDMC12	(DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13	(TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14	(DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix Spike - EPA Sample No.: E3HD4 Level: (TRACE or LOW) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
1,1-Dichloroethene	50.	0.0	63.	127	61-145
Trichloroethene	50.	8.5	63.	109	71-120
Benzene	50.	0.0	62.	125	76-127
Toluene	50.	0.0	57.	113	76-125
Chlorobenzene	50.	0.0	53.	105	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	50.	63.	126	1	0-14	61-145
Trichloroethene	50.	63.	108	1	0-14	71-120
Benzene	50.	61.	122	2	0-11	76-127
Toluene	50.	58.	116	2	0-13	76-125
Chlorobenzene	50.	56.	111	6	0-13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKW1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HD4

Lab File ID: MP70BLK Lab Sample ID: 125357

Instrument ID: 5971-M

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/18/2009

Level: (TRACE or LOW/MED) LOW Time Analyzed: 10:14

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E3HF4	9317041021	MP72EHF4	11:49
02	E3HF3	9317041020	MP75EHF3	13:23
03	E3HD4	9317041001	MP78EHD4	14:57
04	E3HD5	9317041004	MP79EHD5	15:28
05	E3HD6	9317041005	MP80EHD6	15:59
06	E3HD7	9317041006	MP81EHD7	16:30
07	E3HD8	9317041007	MP82EHD8	17:01
08	E3HD9	9317041008	MP83EHD9	17:33
09	E3HE0	9317041009	MP84EHE0	18:05
10	E3HE1	9317041010	MP85EHE1	18:37
11				
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29				
30				

COMMENTS:

DRAFT

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKW2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Lab File ID: MQ02BLK Lab Sample ID: 125358

Instrument ID: 5971-M

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/19/2009

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:31

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E3HE2	9317041011	MQ03EHE2	12:03
02	E3HE3	9317041012	MQ04EHE3	12:34
03	E3HE4	9317041013	MQ05EHE4	13:05
04	E3HE7	9317041014	MQ06EHE7	13:37
05	E3HE8	9317041015	MQ07EHE8	14:09
06	E3HE9	9317041016	MQ08EHE9	14:40
07	E3HF0	9317041017	MQ09EHF0	15:11
08	E3HF1	9317041018	MQ10EHF1	15:42
09	E3HF2	9317041019	MQ11EHF2	16:12
10	E3HF5	9317041022	MQ12EHF5	16:46
11	E3HF6	9317041023	MQ13EHF6	17:17
12	E3HD4MS	9317041002	MQ14MHD4	17:48
13	E3HD4MSD	9317041003	MQ15SHD4	18:18
14	VHBLKW1	125359	MQ16HBLK	18:53
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30				

COMMENTS: _____

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

GC Column: DB624 ID: 0.53 (mm) Init. Calib. Date(s): 11/12/2009 11/12/2009

EPA Sample No.(VSTD#####): VSTD050W1 Date Analyzed: 11/18/2009

Lab File ID (Standard): MP68S50 Time Analyzed: 09:10

Instrument ID: 5971-M Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1249183	13.75	1415889	9.96	610561	17.06
	UPPER LIMIT	2498366	14.25	2831778	10.46	1221122	17.56
	LOWER LIMIT	624592	13.25	707945	9.46	305281	16.56
	EPA SAMPLE NO.						
01	VBLKW1	1265061	13.76	1457960	9.97	621024	17.07
02	E3HF4	1193804	13.75	1388627	9.97	583490	17.05
03	E3HF3	1221161	13.75	1448532	9.97	545894	17.06
04	E3HD4	1218548	13.76	1431238	9.96	540975	17.07
05	E3HD5	1176687	13.75	1409625	9.97	515062	17.07
06	E3HD6	1176396	13.79	1395622	9.99	500289	17.11
07	E3HD7	1063052	13.75	1315290	9.96	418862	17.06
08	E3HD8	1107934	13.76	1357594	9.96	456494	17.07
09	E3HD9	1057299	13.75	1309233	9.96	434914	17.08
10	E3HE0	1039202	13.75	1289332	9.96	406361	17.07
11	E3HE1	988430	13.75	1239009	9.96	386289	17.08
12							
13							
14							
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18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS DataChem
Contract: EPW05026
Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4
GC Column: DB624 ID: 0.53 (mm)
Init. Calib. Date(s): 11/12/2009 11/12/2009
EPA Sample No.(VSTD#####): VSTD050W2
Date Analyzed: 11/19/2009
Lab File ID (Standard): MQ01S50
Time Analyzed: 10:54
Instrument ID: 5971-M
Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1297366	13.76	1454469	9.95	632923	17.08
	UPPER LIMIT	2594732	14.26	2908938	10.45	1265846	17.58
	LOWER LIMIT	648683	13.26	727235	9.45	316462	16.58
	EPA SAMPLE NO.						
01	VBLKW2	1340881	13.75	1572120	9.96	630604	17.09
02	E3HE2	1319787	13.76	1512676	9.97	607483	17.08
03	E3HE3	1289381	13.76	1536020	9.97	575708	17.08
04	E3HE4	1215324	13.76	1438338	9.98	522310	17.08
05	E3HE7	1241911	13.76	1471706	9.97	519085	17.08
06	E3HE8	1125971	13.76	1361359	9.97	454645	17.07
07	E3HE9	1143179	13.77	1373717	9.97	482502	17.09
08	E3HF0	1193326	13.77	1401039	9.98	526657	17.08
09	E3HF1	1114804	13.76	1376110	9.97	470550	17.07
10	E3HF2	1186767	13.75	1422919	9.96	535113	17.06
11	E3HF5	1160277	13.74	1380449	9.94	500944	17.06
12	E3HF6	1140838	13.75	1359901	9.97	484007	17.06
13	E3HD4MS	1010935	13.75	1280555	9.97	412572	17.06
14	E3HD4MSD	1100453	13.76	1333095	9.96	480530	17.07
15	VHBLKW1	1242465	13.75	1455576	9.95	567599	17.09
16							
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP78EHD4

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP78EHD4

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	8.5	
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP78EHD4

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MS

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ14MHD4

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	63.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	62.	
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MS

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ14MHD4

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	63.	
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	57.	
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	53.	
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MSD

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: MQ15SHD4

Level: (TRACE/LOW/MED) LOW

Date Received: 11/12/2009

% Moisture: not dec. _____

Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	63.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	61.	
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MSD

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ15SHD4

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	63.	
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	58.	
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	56.	
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD5

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: MP79EHD5

Level: (TRACE/LOW/MED) LOW

Date Received: 11/12/2009

% Moisture: not dec. _____

Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP79EHD5

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP79EHD5

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP80EHD6

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD6

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: MP80EHD6

Level: (TRACE/LOW/MED) LOW

Date Received: 11/12/2009

% Moisture: not dec. _____

Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.96	J
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP80EHD6

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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16					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP81EHD7

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP81EHD7

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.90	J
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP81EHD7

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041007

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP82EHD8

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD8

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041007

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: MP82EHD8

Level: (TRACE/LOW/MED) LOW

Date Received: 11/12/2009

% Moisture: not dec. _____

Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	0.49	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041007

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP82EHD8

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD9

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: MP83EHD9

Level: (TRACE/LOW/MED) LOW

Date Received: 11/12/2009

% Moisture: not dec. _____

Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041008

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP83EHD9

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.81	J
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	0.44	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD9

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041008

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: MP83EHD9

Level: (TRACE or LOW/MED) LOW

Date Received: 11/12/2009

% Moisture: not dec. _____

Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE0

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041009

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: MP84EHE0

Level: (TRACE/LOW/MED) LOW

Date Received: 11/12/2009

% Moisture: not dec. _____

Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE0

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041009

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: MP84EHE0

Level: (TRACE/LOW/MED) LOW

Date Received: 11/12/2009

% Moisture: not dec. _____

Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	9.5	
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	0.97	J
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041009

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP84EHE0

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
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23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE1

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041010

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: MP85EHE1

Level: (TRACE/LOW/MED) LOW

Date Received: 11/12/2009

% Moisture: not dec. _____

Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041010

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP85EHE1

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	10.	
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	1.0	J
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041010

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP85EHE1

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041011

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ03EHE2

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.2	J
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041011

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ03EHE2

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	1.3	J
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	0.69	J
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041011

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ03EHE2

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041012

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ04EHE3

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0 ~~0.41~~	~~B~~ U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

DRC 2-2-10

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041012

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ04EHE3

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	8.2	
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	1.0	J
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041012

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ04EHE3

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041013

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ05EHE4

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	0.95	J
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041013

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ05EHE4

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	4.2	J
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041013

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ05EHE4

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041014

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ06EHE7

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041014

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ06EHE7

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	9.6	
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	0.84	J
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041014

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ06EHE7

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041015

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ07EHE8

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041015

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ07EHE8

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	2.5	J
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	0.37	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041015

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ07EHE8

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
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10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041016

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ08EHE9

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041016

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ08EHE9

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	1.2	J
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	0.40	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041016

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ08EHE9

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041017

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ09EHF0

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0 ~~0.43~~	~~J~~BU DRC 2-2-10
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041017

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ09EHF0

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	0.32	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab.Sample ID: 9317041017

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ09EHF0

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041018

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ10EHF1

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041018

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ10EHF1

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041018

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ10EHF1

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041019

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ11EHF2

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041019

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ11EHF2

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041019

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ11EHF2

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041020

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP75EHF3

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041020

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP75EHF3

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041020

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP75EHF3

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041021

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP72EHF4

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041021

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP72EHF4

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041021

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MP72EHF4

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/18/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ12EHF5

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ12EHF5

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	6.0	
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ12EHF5

Level: (TRACE or LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ13EHF6

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: MQ13EHF6

Level: (TRACE/LOW/MED) LOW Date Received: 11/12/2009

% Moisture: not dec. _____ Date Analyzed: 11/19/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	12.	
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	2.9	J
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU09C05

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	134-62-3	Diethyltoluamide	9.63	2.2	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU10C06

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	0.31 ~~0.30~~	J
111-44-4	Bis(2-chloroethyl)ether	0.26	J
95-57-8	2-Chlorophenol	0.54	J
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.19	J
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	0.69	J
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	0.39	J
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	0.36 ~~0.35~~	J
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~1.3~~	~~J~~
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	0.50	J
91-57-6	2-Methylnaphthalene	0.32	J
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	0.48	J
95-95-4	2,4,5-Trichlorophenol	0.44 ~~0.43~~	J
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	0.19	J
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	0.34	J

DRC 2-3-10

DRC 2-4-10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU10C06

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	0.37	J
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	0.16	J
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	0.17	J
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	0.17	J
120-12-7	Anthracene	0.16 ~~0.15~~	J
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.23	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

DRC 2-3-10

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD7

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041006

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: NXU10C06

Level: (TRACE or LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____

Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU12C07

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU12C07

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5:0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5:0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.47 ~~0.46~~	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

DRC 2-3-10

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU12C07

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU13C08

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU13C08

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.28	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD9

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041008

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: NXU13C08

Level: (TRACE or LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____

Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041009

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU14C09

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	0.27	J
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	0.15	J
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~0.18~~	~~J~~ U DRC 2-4-10
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	550	E
59-50-7	4-Chloro-3-methylphenol	0.23	J
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	0.20	J
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE0

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041009

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: NXU14C09

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____

Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	0.16	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.69	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041009

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU14C09

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~75-78-5~~	~~Silane, dichlorodimethyl~~ Unknown	~~5.22~~	~~7.6~~	~~JN~~ DRC
02		Chlorinated aromatic	6.13	16.	J 2-3-1
03		Unknown oxyhydrocarbon Unknown	13.01	7.4	J
04	~~119-93-7~~	~~[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimet~~	13.73	2.1	~~JN~~ DRC 2-3-11
05	~~4792-15-8~~	~~Pentaethylene glycol~~ Unknown	14.59	13.	~~JN~~
06		Unknown aromatic	14.68	5.5	J
07	4792-15-8	Pentaethylene glycol	15.83	16.	JN
08	~~194-59-2~~	~~7H-Dibenzo[c,g]carbazole~~ Unknown	15.99	3.6	~~JN~~
09	~~239-64-5~~	~~13H-Dibenzo[a,i]carbazole~~ Unknown	16.08	2.6	~~JN~~
10	~~17455-13-9~~	~~1,4,7,10,13,16-Hexaoxacyclooctadecane~~	~~16.15~~	~~Unknown~~ ~~2.0~~	~~JN~~
11	~~1786-94-3~~	~~3,6,9,12,15-Pentaoxanonadecan-1-ol~~	~~17.36~~	~~Unknown~~ ~~5.0~~	~~JN~~
12	~~17455-13-9~~	~~1,4,7,10,13,16-Hexaoxacyclooctadecane~~	~~19.71~~	~~Unknown~~ ~~2.6~~	~~JN~~
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	6.5	J

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE0DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041009DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU30C09

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 16.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	80.	U
108-95-2	Phenol	80.	U
111-44-4	Bis(2-chloroethyl)ether	80.	U
95-57-8	2-Chlorophenol	80.	U
95-48-7	2-Methylphenol	80.	U
108-60-1	2,2'-Oxybis(1-chloropropane)	80.	U
98-86-2	Acetophenone	80.	U
106-44-5	4-Methylphenol	80.	U
621-64-7	N-Nitroso-di-n-propylamine	80.	U
67-72-1	Hexachloroethane	80.	U
98-95-3	Nitrobenzene	80.	U
78-59-1	Isophorone	80.	U
88-75-5	2-Nitrophenol	80.	U
105-67-9	2,4-Dimethylphenol	80.	U
111-91-1	Bis(2-chloroethoxy)methane	80.	U
120-83-2	2,4-Dichlorophenol	80.	U
91-20-3	Naphthalene	80.	U
106-47-8	4-Chloroaniline	80.	U
87-68-3	Hexachlorobutadiene	80.	U
105-60-2	Caprolactam	560	D
59-50-7	4-Chloro-3-methylphenol	80.	U
91-57-6	2-Methylnaphthalene	80.	U
77-47-4	Hexachlorocyclopentadiene	80.	U
88-06-2	2,4,6-Trichlorophenol	80.	U
95-95-4	2,4,5-Trichlorophenol	80.	U
92-52-4	1,1'-Biphenyl	80.	U
91-58-7	2-Chloronaphthalene	80.	U
88-74-4	2-Nitroaniline	160	U
131-11-3	Dimethylphthalate	80.	U
606-20-2	2,6-Dinitrotoluene	80.	U
208-96-8	Acenaphthylene	80.	U
99-09-2	3-Nitroaniline	160	U
83-32-9	Acenaphthene	80.	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE0DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041009DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU30C09

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 16.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	160	U
100-02-7	4-Nitrophenol	160	U
132-64-9	Dibenzofuran	80.	U
121-14-2	2,4-Dinitrotoluene	80.	U
84-66-2	Diethylphthalate	80.	U
86-73-7	Fluorene	80.	U
7005-72-3	4-Chlorophenyl-phenylether	80.	U
100-01-6	4-Nitroaniline	160	U
534-52-1	4,6-Dinitro-2-methylphenol	160	U
86-30-6	N-Nitrosodiphenylamine[1]	80.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	80.	U
101-55-3	4-Bromophenyl-phenylether	80.	U
118-74-1	Hexachlorobenzene	80.	U
1912-24-9	Atrazine	80.	U
87-86-5	Pentachlorophenol	160	U
85-01-8	Phenanthrene	80.	U
120-12-7	Anthracene	80.	U
86-74-8	Carbazole	80.	U
84-74-2	Di-n-butylphthalate	80.	U
206-44-0	Fluoranthene	80.	U
129-00-0	Pyrene	80.	U
85-68-7	Butylbenzylphthalate	80.	U
91-94-1	3,3'-Dichlorobenzidine	5.4	JD
56-55-3	Benzo(a)anthracene	2.8	JD
218-01-9	Chrysene	2.6	JD
117-81-7	Bis(2-ethylhexyl)phthalate	2.7	JD
117-84-0	Di-n-octylphthalate	80.	U
205-99-2	Benzo(b)fluoranthene	7.2	JD
207-08-9	Benzo(k)fluoranthene	8.0	JD
50-32-8	Benzo(a)pyrene	9.5	JD
193-39-5	Indeno(1,2,3-cd)pyrene	20.	JD
53-70-3	Dibenzo(a,h)anthracene	16.	JD
191-24-2	Benzo(g,h,i)perylene	19.	JD
58-90-2	2,3,4,6-Tetrachlorophenol	80.	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE0DL

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041009DL

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: NXU30C09

Level: (TRACE or LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____

Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____

Dilution Factor: 16.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Polycyclic hydrocarbon	3.93	110	JD
02					
03					
04					
05					
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28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041010

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU15C10

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	0.32	J
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	670	E
59-50-7	4-Chloro-3-methylphenol	0.26	J
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	0.18	J

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE1

Lab Name: ALS DataChem
Contract: EPW05026
Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4
Matrix: (SOIL/SED/WATER) WATER
Lab Sample ID: 9317041010
Sample wt/vol: 1000 (g/mL) mL
Lab File ID: NXU15C10
Level: (LOW/MED) LOW
Extraction: (Type) CONT
% Moisture: _____ Decanted: (Y/N) _____
Date Received: 11/12/2009
Concentrated Extract Volume: 1000 (uL)
Date Extracted: 11/15/2009
Injection Volume: 1.0 (uL) GPC Factor: _____
Date Analyzed: 11/17/2009
GPC Cleanup: (Y/N) N pH: _____
Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	0.18	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.68	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041010

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU15C10

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~20006-68-2~~	~~Silane, dichloromethyl[3-[1,2,2,2-tetraf~~	~~5.23~~	~~Unknown~~ ~~9.4~~	~~JN~~
02		Chlorinated aromatic	6.14	14.	J
03		Unknown oxyhydrocarbon	13.00	10.	J
04		Unknown oxyhydrocarbon	13.49	4.8	J
05	~~4792-15-8~~	~~Pentaethylene glycol~~ Unknown	14.60	11.	~~JN~~
06	~~1000127-23-7~~	~~Ethyl diisopropylacetamide~~ Unknown	14.69	7.9	~~JN~~
07	~~109773-67-3~~	~~15,15'-Bi-1,4,7,10,13-pentaoxacyclohexad~~	~~14.96~~	~~Unknown~~ ~~3.1~~	~~JN~~
08	~~4792-15-8~~	~~Pentaethylene glycol~~ Unknown	15.51	4.6	~~JN~~
09	~~4792-15-8~~	~~Pentaethylene glycol~~ Unknown	15.82	8.6	~~JN~~
10	~~1000163-64-0~~	~~1,4,7,10,13,16-Hexaoxanonadecane, 18-(2-~~	~~16.92~~	~~Unknown~~ ~~2.4~~	~~JN~~
11	1786-94-3	3,6,9,12,15-Pentaoxanonadecan-1-ol	17.37	7.2	JN
12	~~17455-13-9~~	~~1,4,7,10,13,16-Hexaoxacyclooctadecane~~	~~19.72~~	~~Unknown~~ ~~3.8~~	~~JN~~
13	~~102-69-2~~	~~1-Propanamine, N,N-dipropyl-~~ Unknown	24.57	2.4	~~JN~~
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	22.	J

DRC 2-3-10

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE1DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041010DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU31C10

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	100	U
108-95-2	Phenol	100	U
111-44-4	Bis(2-chloroethyl)ether	100	U
95-57-8	2-Chlorophenol	100	U
95-48-7	2-Methylphenol	100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	100	U
98-86-2	Acetophenone	100	U
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-di-n-propylamine	100	U
67-72-1	Hexachloroethane	100	U
98-95-3	Nitrobenzene	100	U
78-59-1	Isophorone	100	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	100	U
111-91-1	Bis(2-chloroethoxy)methane	100	U
120-83-2	2,4-Dichlorophenol	100	U
91-20-3	Naphthalene	100	U
106-47-8	4-Chloroaniline	100	U
87-68-3	Hexachlorobutadiene	810	D
105-60-2	Caprolactam	100	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
92-52-4	1,1'-Biphenyl	100	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethylphthalate	100	U
606-20-2	2,6-Dinitrotoluene	100	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene		

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE1DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041010DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU31C10

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	200	U
100-02-7	4-Nitrophenol	200	U
132-64-9	Dibenzofuran	100	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
86-73-7	Fluorene	100	U
7005-72-3	4-Chlorophenyl-phenylether	100	U
100-01-6	4-Nitroaniline	200	U
534-52-1	4,6-Dinitro-2-methylphenol	200	U
86-30-6	N-Nitrosodiphenylamine[1]	100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U
101-55-3	4-Bromophenyl-phenylether	100	U
118-74-1	Hexachlorobenzene	100	U
1912-24-9	Atrazine	100	U
87-86-5	Pentachlorophenol	200	U
85-01-8	Phenanthrene	100	U
120-12-7	Anthracene	100	U
86-74-8	Carbazole	100	U
84-74-2	Di-n-butylphthalate	100	U
206-44-0	Fluoranthene	100	U
129-00-0	Pyrene	100	U
85-68-7	Butylbenzylphthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	100	U
56-55-3	Benzo(a)anthracene	100	U
218-01-9	Chrysene	100	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	U
117-84-0	Di-n-octylphthalate	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U
58-90-2	2,3,4,6-Tetrachlorophenol	100	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE1DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041010DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU31C10

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 20.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU16C11

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	0.37	J
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	0.35	J
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~0.47~~	~~J~~
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	56.	
59-50-7	4-Chloro-3-methylphenol	0.29	J
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	0.22	J

DRC 2-4-10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU16C11

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0 ~~0.19~~	~~J~~ U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.37	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

DRL 2-4-10

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU16C11

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041012

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU17C12

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	0.15	J
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	0.31 ~~0.30~~	J
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	0.45	J
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	0.21	J
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~0.83~~	U ~~J~~
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0 ~~0.53~~	~~J~~ U
59-50-7	4-Chloro-3-methylphenol	0.17	J
91-57-6	2-Methylnaphthalene	0.17	J
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	0.18	J
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	0.15	J

DRC 2-3-10

DRC 2-4-10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041012

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU17C12

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	0.17	J
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0 ~~0.19~~	~~J~~ U DRC 2-4-10
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.24	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041012

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU17C12

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041013

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU18C13

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	0.31	J
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	~~J~~ U DRL 2-4-10
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041013

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU18C13

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0 ~~0.29~~	~~J~~ U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.22	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

DRC 2-4-10

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041013

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU18C13

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown oxyhydrocarbon	13.62	3.9	J
02		Unknown oxyhydrocarbon	15.94	3.0	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041014

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU19C14

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	0.30	J
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~0.49~~	~~J~~ U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0 ~~0.65~~	~~J~~ U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

DRC 2-4-10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041014

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU19C14

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0 ~~0.33~~	~~J~~ U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

DRC 2-4-10

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041014

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU19C14

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041015

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU20C15

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~0.55~~	~~J~~ U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0 ~~0.46~~	~~J~~ U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

DRC 2-4-10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041015

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU20C15

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0 ~~0.20~~	~~J~~ 4 DZC 2-4-10
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041015

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU20C15

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041016

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU21C16

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~0.16~~	~~J~~ U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0 ~~2.5~~	~~J~~ U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

DRC 2-4-10

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041016

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU21C16

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0 ~~0.20~~	~~J~~ U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

DRC 2-4-10

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HE9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041016

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU21C16

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041017

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU22C17

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~0.65~~	~~J~~ U DRC 2-4-10
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0 ~~2.8~~	~~J~~ U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041017

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU22C17

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0 ~~0.29~~	~~J~~ U DRC 2-4-10
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	0.17 ~~0.16~~	J DRC 2-3-10
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.21	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041017

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU22C17

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041018

Sample wt/vol: 620. (g/mL) mL Lab File ID: NXU23C18

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	0.67	J
108-95-2	Phenol	8.1	U
111-44-4	Bis(2-chloroethyl)ether	8.1	U
95-57-8	2-Chlorophenol	8.1	U
95-48-7	2-Methylphenol	8.1	U
108-60-1	2,2'-Oxybis(1-chloropropane)	8.1	U
98-86-2	Acetophenone	8.1	U
106-44-5	4-Methylphenol	8.1	U
621-64-7	N-Nitroso-di-n-propylamine	8.1	U
67-72-1	Hexachloroethane	8.1	U
98-95-3	Nitrobenzene	8.1	U
78-59-1	Isophorone	8.1	U
88-75-5	2-Nitrophenol	8.1	U
105-67-9	2,4-Dimethylphenol	8.1	U
111-91-1	Bis(2-chloroethoxy)methane	8.1	U
120-83-2	2,4-Dichlorophenol	8.1	U
91-20-3	Naphthalene	3.6	J
106-47-8	4-Chloroaniline	8.1	U
87-68-3	Hexachlorobutadiene	8.1	U
105-60-2	Caprolactam	0.52	J
59-50-7	4-Chloro-3-methylphenol	8.1	U
91-57-6	2-Methylnaphthalene	8.1	U
77-47-4	Hexachlorocyclopentadiene	8.1	U
88-06-2	2,4,6-Trichlorophenol	8.1	U
95-95-4	2,4,5-Trichlorophenol	8.1	U
92-52-4	1,1'-Biphenyl	8.1	U
91-58-7	2-Chloronaphthalene	8.1	U
88-74-4	2-Nitroaniline	16.	U
131-11-3	Dimethylphthalate	8.1	U
606-20-2	2,6-Dinitrotoluene	8.1	U
208-96-8	Acenaphthylene	8.1	U
99-09-2	3-Nitroaniline	16.	U
83-32-9	Acenaphthene	8.1	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041018

Sample wt/vol: 620. (g/mL) mL Lab File ID: NXU23C18

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	16.	U
100-02-7	4-Nitrophenol	16.	U
132-64-9	Dibenzofuran	8.1	U
121-14-2	2,4-Dinitrotoluene	8.1	U
84-66-2	Diethylphthalate	0.48	J
86-73-7	Fluorene	8.1	U
7005-72-3	4-Chlorophenyl-phenylether	8.1	U
100-01-6	4-Nitroaniline	16.	U
534-52-1	4,6-Dinitro-2-methylphenol	16.	U
86-30-6	N-Nitrosodiphenylamine[1]	8.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	8.1	U
101-55-3	4-Bromophenyl-phenylether	8.1	U
118-74-1	Hexachlorobenzene	8.1	U
1912-24-9	Atrazine	8.1	U
87-86-5	Pentachlorophenol	16.	U
85-01-8	Phenanthrene	8.1	U
120-12-7	Anthracene	8.1	U
86-74-8	Carbazole	8.1	U
84-74-2	Di-n-butylphthalate	8.1	U
206-44-0	Fluoranthene	8.1	U
129-00-0	Pyrene	8.1	U
85-68-7	Butylbenzylphthalate	8.1	U
91-94-1	3,3'-Dichlorobenzidine	8.1	U
56-55-3	Benzo(a)anthracene	8.1	U
218-01-9	Chrysene	8.1	U
117-81-7	Bis(2-ethylhexyl)phthalate	8.1	U
117-84-0	Di-n-octylphthalate	8.1	U
205-99-2	Benzo(b)fluoranthene	8.1	U
207-08-9	Benzo(k)fluoranthene	8.1	U
50-32-8	Benzo(a)pyrene	8.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.1	U
53-70-3	Dibenzo(a,h)anthracene	8.1	U
191-24-2	Benzo(g,h,i)perylene	8.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	8.1	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041018

Sample wt/vol: 620. (g/mL) mL Lab File ID: NXU23C18

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041019

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU24C19

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	0.52	J
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	1.9	J
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	1.1	J
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041019

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU24C19

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	0.34	J
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041019

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU24C19

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU25C22

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	OL 5.0 ~~0.18~~ ~~5.0~~	U ~~J~~ ~~J~~ DRC
108-95-2	Phenol	0.18 ~~5.0~~	~~J~~ J 2-3-1
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~0.77~~	~~J~~ U DRC 2-4-10
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	830	E
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU25C22

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0 ~~0.49~~	~~J~~ U DRC 2-4-10
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	0.40	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.4	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU25C22

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~100-64-1~~	~~Cyclohexanone, oxime~~ Unknown	5.14	3.2	~~JN~~
02		Brominated compound	5.25	10.	J
03	~~142-62-1~~	~~Hexanoic acid~~ Unknown	5.48	2.8	~~JN~~
04		Chlorinated aromatic	6.15	15.	J
05	~~143-07-7~~	~~Dodecanoic acid~~ Unknown	9.34	2.7	~~JN~~
06	~~929-37-3~~	~~Ethanol, 2-[2-(ethenyloxy)ethoxy]-~~ Unknown	11.33	4.7	~~JN~~
07		Unknown oxyhydrocarbon	12.99	6.4	J
08	~~4792-15-8~~	~~Pentaethylene glycol~~ Unknown	13.48	7.4	~~JN~~
09	~~4792-15-8~~	~~Pentaethylene glycol~~ Unknown	14.58	7.5	~~JN~~
10	~~61699-62-5~~	~~3,4-Diisopropoxy-3-cyclobutene-1,2-dione~~	14.70	Unknown 11.	~~JN~~
11		Polycyclic hydrocarbon	14.83	2.0	J
12	~~112-35-6~~	~~Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-~~	14.96	Unknown 5.3	~~JN~~
13	~~1000197-08-4~~	~~1-Cyclohexene, 1,3,3-trimethyl-2-(1-meth~~	15.17	Unknown 2.1	~~JN~~
14	~~1000148-14-4~~	~~2-Indolyl-3-phenylacrylonitrile~~ Unknown	15.37	2.1	~~JN~~
15	~~4706-81-4~~	~~2-Tetradecanol~~ Unknown	15.51	2.9	~~JN~~
16	~~4792-15-8~~	~~Pentaethylene glycol~~ Unknown	15.82	8.3	~~JN~~
17		Polycyclic hydrocarbon	16.64	2.1	J
18	~~23778-52-1~~	~~2,5,8,11,14-Pentaoxahexadecan-16-ol~~	17.36	Unknown 4.1	~~JN~~
19	~~1559-34-8~~	~~3,6,9,12-Tetraoxahexadecan-1-ol~~ Unknown	17.48	2.1	~~JN~~
20	~~23778-52-1~~	~~2,5,8,11,14-Pentaoxahexadecan-16-ol~~	17.75	Unknown 2.1	~~JN~~
21	~~1000215-84-5~~	~~Di(2-Tetrahydrofurylmethyl)amine~~	24.52	Unknown 4.6	~~JN~~
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	13.	J

DRC 2-3-11

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF5DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU32C22

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 25.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	130	U
108-95-2	Phenol	130	U
111-44-4	Bis(2-chloroethyl)ether	130	U
95-57-8	2-Chlorophenol	130	U
95-48-7	2-Methylphenol	130	U
108-60-1	2,2'-Oxybis(1-chloropropane)	130	U
98-86-2	Acetophenone	130	U
106-44-5	4-Methylphenol	130	U
621-64-7	N-Nitroso-di-n-propylamine	130	U
67-72-1	Hexachloroethane	130	U
98-95-3	Nitrobenzene	130	U
78-59-1	Isophorone	130	U
88-75-5	2-Nitrophenol	130	U
105-67-9	2,4-Dimethylphenol	130	U
111-91-1	Bis(2-chloroethoxy)methane	130	U
120-83-2	2,4-Dichlorophenol	130	U
91-20-3	Naphthalene	130	U
106-47-8	4-Chloroaniline	130	U
87-68-3	Hexachlorobutadiene	130	U
105-60-2	Caprolactam	870	D
59-50-7	4-Chloro-3-methylphenol	130	U
91-57-6	2-Methylnaphthalene	130	U
77-47-4	Hexachlorocyclopentadiene	130	U
88-06-2	2,4,6-Trichlorophenol	130	U
95-95-4	2,4,5-Trichlorophenol	130	U
92-52-4	1,1'-Biphenyl	130	U
91-58-7	2-Chloronaphthalene	130	U
88-74-4	2-Nitroaniline	250	U
131-11-3	Dimethylphthalate	130	U
606-20-2	2,6-Dinitrotoluene	130	U
208-96-8	Acenaphthylene	130	U
99-09-2	3-Nitroaniline	250	U
83-32-9	Acenaphthene	130	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF5DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU32C22

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 25.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	250	U
100-02-7	4-Nitrophenol	250	U
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethylphthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl-phenylether	130	U
100-01-6	4-Nitroaniline	250	U
534-52-1	4,6-Dinitro-2-methylphenol	250	U
86-30-6	N-Nitrosodiphenylamine[1]	130	U
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U
101-55-3	4-Bromophenyl-phenylether	130	U
118-74-1	Hexachlorobenzene	130	U
1912-24-9	Atrazine	130	U
87-86-5	Pentachlorophenol	250	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
86-74-8	Carbazole	130	U
84-74-2	Di-n-butylphthalate	130	U
206-44-0	Fluoranthene	130	U
129-00-0	Pyrene	130	U
85-68-7	Butylbenzylphthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	130	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	130	U
117-81-7	Bis(2-ethylhexyl)phthalate	130	U
117-84-0	Di-n-octylphthalate	130	U
205-99-2	Benzo(b)fluoranthene	130	U
207-08-9	Benzo(k)fluoranthene	130	U
50-32-8	Benzo(a)pyrene	130	U
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
53-70-3	Dibenzo(a,h)anthracene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U
58-90-2	2,3,4,6-Tetrachlorophenol	130	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF5DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU32C22

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 25.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU26C23

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0 ~~0.27~~	~~J~~ U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	430	E
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

DRC 2-4-11

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU26C23

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0 ~~0.25~~	~~J~~ U ORC 2-4-10
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	0.25	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.48	J
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU26C23

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Chlorinated aromatic	6.09	14.	J
02	~~23778-52-1~~	~~2,5,8,11,14-Pentaoxahexadecan-16-ol~~	11.35	Unknown 2.4	JN
03	~~112-59-4~~	~~2-(2-Hexyloxyethoxy)ethanol~~ Unknown	12.99	6.0	JN
04	~~112-60-7~~	~~Ethanol, 2,2'-[oxybis(2,1-ethanediyloxy)~~	13.48	Unknown 4.9	JN
05	~~4792-15-8~~	~~Pentaethylene glycol~~ Unknown	14.59	6.0	JN
06	~~61699-62-5~~	~~3,4-Diisopropoxy-3-cyclobutene-1,2-dione~~	14.69	Unknown 6.7	JN
07	~~23778-52-1~~	~~2,5,8,11,14-Pentaoxahexadecan-16-ol~~	14.96	Unknown 2.2	JN
08	~~111-90-0~~	~~Ethanol, 2-(2-ethoxyethoxy)-~~ Unknown	15.50	3.0	JN
09	~~81781-21-7~~	~~1,3,3-Trimethyl-2-oxabicyclo[2.2.2]octan~~	15.58	Unknown 3.1	JN
10	~~1786-94-3~~	~~3,6,9,12,15-Pentaoxanonadecan-1-ol~~	15.82	Unknown 11.	JN
11		Polycyclic hydrocarbon	16.00	2.4	J
12	~~1000213-34-5~~	~~12-[Trifluoromethyl]-3,6,9-trioxatrideca~~	16.26	Unknown 3.5	JN
13	~~1786-94-3~~	~~3,6,9,12,15-Pentaoxanonadecan-1-ol~~	17.36	Unknown 4.1	JN
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

DRC 23-1

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF6DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU33C23

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	50.	U
108-95-2	Phenol	50.	U
111-44-4	Bis(2-chloroethyl)ether	50.	U
95-57-8	2-Chlorophenol	50.	U
95-48-7	2-Methylphenol	50.	U
108-60-1	2,2'-Oxybis(1-chloropropane)	50.	U
98-86-2	Acetophenone	50.	U
106-44-5	4-Methylphenol	50.	U
621-64-7	N-Nitroso-di-n-propylamine	50.	U
67-72-1	Hexachloroethane	50.	U
98-95-3	Nitrobenzene	50.	U
78-59-1	Isophorone	50.	U
88-75-5	2-Nitrophenol	50.	U
105-67-9	2,4-Dimethylphenol	50.	U
111-91-1	Bis(2-chloroethoxy)methane	50.	U
120-83-2	2,4-Dichlorophenol	50.	U
91-20-3	Naphthalene	50.	U
106-47-8	4-Chloroaniline	50.	U
87-68-3	Hexachlorobutadiene	50.	U
105-60-2	Caprolactam	390	D
59-50-7	4-Chloro-3-methylphenol	50.	U
91-57-6	2-Methylnaphthalene	50.	U
77-47-4	Hexachlorocyclopentadiene	50.	U
88-06-2	2,4,6-Trichlorophenol	50.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
92-52-4	1,1'-Biphenyl	50.	U
91-58-7	2-Chloronaphthalene	50.	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethylphthalate	50.	U
606-20-2	2,6-Dinitrotoluene	50.	U
208-96-8	Acenaphthylene	50.	U
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene	50.	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF6DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU33C23

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	50.	U
121-14-2	2,4-Dinitrotoluene	50.	U
84-66-2	Diethylphthalate	50.	U
86-73-7	Fluorene	50.	U
7005-72-3	4-Chlorophenyl-phenylether	50.	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine[1]	50.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50.	U
101-55-3	4-Bromophenyl-phenylether	50.	U
118-74-1	Hexachlorobenzene	50.	U
1912-24-9	Atrazine	50.	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	50.	U
120-12-7	Anthracene	50.	U
86-74-8	Carbazole	50.	U
84-74-2	Di-n-butylphthalate	50.	U
206-44-0	Fluoranthene	50.	U
129-00-0	Pyrene	50.	U
85-68-7	Butylbenzylphthalate	50.	U
91-94-1	3,3'-Dichlorobenzidine	50.	U
56-55-3	Benzo(a)anthracene	50.	U
218-01-9	Chrysene	50.	U
117-81-7	Bis(2-ethylhexyl)phthalate	50.	U
117-84-0	Di-n-octylphthalate	50.	U
205-99-2	Benzo(b)fluoranthene	50.	U
207-08-9	Benzo(k)fluoranthene	50.	U
50-32-8	Benzo(a)pyrene	50.	U
193-39-5	Indeno(1,2,3-cd)pyrene	50.	U
53-70-3	Dibenzo(a,h)anthracene	50.	U
191-24-2	Benzo(g,h,i)perylene	50.	U
58-90-2	2,3,4,6-Tetrachlorophenol	50.	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HF6DL

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023DL

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU33C23

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/18/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK32

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 124132

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU04BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK32

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 124132

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU04BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK32

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 124132

Sample wt/vol: 1000 (g/mL) mL Lab File ID: NXU04BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/15/2009

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 11/17/2009

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

2N - FORM II PEST-1
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKW1	70	72	48	61			0
02	PLCSW1	71	73	49	61			0
03	E3HD4	64	64	46	61			0
04	E3HD5	60	66	43	63			0
05	E3HD6	60	68	43	62			0
06	E3HD7	60	65	44	59			0
07	E3HD8	62	67	45	61			0
08	E3HD9	63	67	44	62			0
09	E3HE0	63	64	44	62			0
10	E3HE1	59	63	42	63			0
11	E3HE2	62	67	47	62			0
12	E3HE3	58	60	40	56			0
13	E3HE4	60	64	44	56			0
14	E3HE7	62	64	44	60			0
15	E3HE8	65	69	50	61			0
16	E3HE9	63	68	46	61			0
17	E3HF0	62	66	42	61			0
18	E3HF1	58	63	46	61			0
19	E3HF2	61	66	48	62			0
20	E3HF5	53	56	38	54			0
21	E3HF6	60	64	46	62			0
22	E3HD4MS	61	61	42	56			0
23	E3HD4MSD	64	66	42	62			0
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3G- FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix Spike - EPA Sample No.: E3HD4

Instrument ID: GCE31 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.50	0	0.31	62	56-123
Heptachlor	0.50	0.00051	0.30	61	40-131
Aldrin	0.50	0.00077	0.32	65	40-120
Dieldrin	1.0	0	0.62	62	52-126
Endrin	1.0	0	0.55	55 *	56-121
4,4'-DDT	1.0	0	0.49	49	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	0.50	0.31	62	0	0-15	56-123
Heptachlor	0.50	0.31	61	1	0-20	40-131
Aldrin	0.50	0.33	65	0	0-22	40-120
Dieldrin	1.0	0.63	63	0	0-18	52-126
Endrin	1.0	0.56	56	2	0-21	56-121
4,4'-DDT	1.0	0.49	49	0	0-27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 1 out of 12 outside limits

COMMENTS: _____

3G- FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix Spike - EPA Sample No.: E3HD4

Instrument ID: GCE31 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.50	0	0.32	64	56-123
Heptachlor	0.50	0	0.32	64	40-131
Aldrin	0.50	0	0.34	67	40-120
Dieldrin	1.0	0	0.64	64	52-126
Endrin	1.0	0	0.65	65	56-121
4,4'-DDT	1.0	0	0.63	63	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	0.50	0.34	67	5	0-15	56-123
Heptachlor	0.50	0.34	68	6	0-20	40-131
Aldrin	0.50	0.35	70	5	0-22	40-120
Dieldrin	1.0	0.68	68	6	0-18	52-126
Endrin	1.0	0.70	70	7	0-21	56-121
4,4'-DDT	1.0	0.68	68	8	0-27	38-127

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

3L - FORM III PEST-3

WATER PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSW1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Lab Sample ID: 124135 LCS Lot No.: _____

Date Extracted: 11/15/2009 Date Analyzed (1): 11/19/2009

Instrument ID (1): GCE31 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.034	68	50-120
Heptachlor epoxide	0.050	0.036	73	50-150
Dieldrin	0.10	0.070	70	30-130
4,4'-DDE	0.10	0.090	90	50-150
Endrin	0.10	0.058	58	50-120
Endosulfan sulfate	0.10	0.065	65	50-120
gamma-Chlordane	0.050	0.037	75	30-130

Instrument ID (2): GCE31 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 11/19/2009

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.032	63	50-120
Heptachlor epoxide	0.050	0.035	69	50-150
Dieldrin	0.10	0.066	66	30-130
4,4'-DDE	0.10	0.062	62	50-150
Endrin	0.10	0.063	63	50-120
Endosulfan sulfate	0.10	0.066	66	50-120
gamma-Chlordane	0.050	0.034	67	30-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 14 outside limits.

COMMENTS: _____

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKW1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Lab File ID: 31091118A018,31091118B018 Lab Sample ID: 124133

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 11/15/2009

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N

Date Analyzed (1): 11/19/2009 Date Analyzed (2): 11/19/2009

Time Analyzed (1): 21:26 Time Analyzed (2): 21:57

Instrument ID (1): GCE31 Instrument ID (2): GCE31

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCSW1	124135	11/19/2009	11/19/2009
02	E3HD4	9317041001	11/19/2009	11/19/2009
03	E3HD5	9317041004	11/20/2009	11/20/2009
04	E3HD6	9317041005	11/20/2009	11/20/2009
05	E3HD7	9317041006	11/20/2009	11/20/2009
06	E3HD8	9317041007	11/20/2009	11/20/2009
07	E3HD9	9317041008	11/20/2009	11/20/2009
08	E3HE0	9317041009	11/20/2009	11/20/2009
09	E3HE1	9317041010	11/20/2009	11/20/2009
10	E3HE2	9317041011	11/20/2009	11/20/2009
11	E3HE3	9317041012	11/20/2009	11/20/2009
12	E3HE4	9317041013	11/20/2009	11/20/2009
13	E3HE7	9317041014	11/20/2009	11/20/2009
14	E3HE8	9317041015	11/20/2009	11/20/2009
15	E3HE9	9317041016	11/20/2009	11/20/2009
16	E3HF0	9317041017	11/20/2009	11/20/2009
17	E3HF1	9317041018	11/20/2009	11/20/2009
18	E3HF2	9317041019	11/20/2009	11/20/2009
19	E3HF5	9317041022	11/20/2009	11/20/2009
20	E3HF6	9317041023	11/20/2009	11/20/2009
21	E3HD4MS	9317041002	11/19/2009	11/19/2009
22	E3HD4MSD	9317041003	11/19/2009	11/20/2009
23				
24				
25				
26				

COMMENTS:

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 11/19/2009 11/19/2009

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.26 DCB: 21.35

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCA1	31091118A004	11/19/2009	14:17	7.29	21.38
02	PEMA1	31091118A005	11/19/2009	14:47	7.28	21.37
03	TOXAPH1A1	31091118A006	11/19/2009	15:18	7.28	21.37
04	TOXAPH2A1	31091118A007	11/19/2009	15:48	7.27	21.36
05	TOXAPH3A1	31091118A008	11/19/2009	16:19	7.27	21.35
06	TOXAPH4A1	31091118A009	11/19/2009	16:50	7.27	21.35
07	TOXAPH5A1	31091118A010	11/19/2009	17:21	7.26	21.35
08	INDC1A1	31091118A011	11/19/2009	17:51	7.26	21.35
09	INDC2A1	31091118A012	11/19/2009	18:22	7.26	21.35
10	INDC3A1	31091118A013	11/19/2009	18:52	7.26	21.35
11	INDC4A1	31091118A014	11/19/2009	19:23	7.26	21.35
12	INDC5A1	31091118A015	11/19/2009	19:54	7.27	21.35
13	PIBLKB1	31091118A016	11/19/2009	20:25	7.27	21.35
14	PEMB1	31091118A017	11/19/2009	20:55	7.27	21.35
15	PBLKW1	31091118A018	11/19/2009	21:26	7.27	21.35
16	PLCSW1	31091118A019	11/19/2009	21:57	7.27	21.35
17	E3HD4	31091118A020	11/19/2009	22:28	7.28	21.35
18	E3HD4MS	31091118A021	11/19/2009	22:58	7.28	21.35
19	E3HD4MSD	31091118A022	11/19/2009	23:29	7.27	21.35
20	E3HD5	31091118A023	11/20/2009	00:00	7.27	21.35
21	E3HD6	31091118A024	11/20/2009	00:30	7.28	21.35
22	E3HD7	31091118A025	11/20/2009	01:01	7.27	21.35
23	E3HD8	31091118A026	11/20/2009	01:31	7.27	21.35
24	E3HD9	31091118A027	11/20/2009	02:02	7.28	21.35
25	E3HE0	31091118A028	11/20/2009	02:32	7.28	21.35
26	E3HE1	31091118A029	11/20/2009	03:03	7.28	21.35
27	E3HE2	31091118A030	11/20/2009	03:33	7.28	21.35
28	E3HE3	31091118A031	11/20/2009	04:04	7.28	21.35
29	ZZZZZ		11/20/2009	04:35		
30	PIBLKC1	31091118A033	11/20/2009	05:05	7.27	21.35
31	INDC3C1	31091118A034	11/20/2009	05:36	7.27	21.36
32	E3HE4	31091118A035	11/20/2009	06:06	7.28	21.36

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 11/19/2009 11/19/2009

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.26 DCB: 21.35

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E3HE7	31091118A036	11/20/2009	06:37	7.28	21.36
02	E3HE8	31091118A037	11/20/2009	07:08	7.28	21.36
03	E3HE9	31091118A038	11/20/2009	07:38	7.28	21.35
04	E3HF0	31091118A039	11/20/2009	08:09	7.28	21.35
05	E3HF1	31091118A040	11/20/2009	08:40	7.28	21.37
06	E3HF2	31091118A041	11/20/2009	09:10	7.28	21.38
07	E3HF5	31091118A042	11/20/2009	09:41	7.29	21.39
08	E3HF6	31091118A043	11/20/2009	10:11	7.29	21.38
09	ZZZZZ		11/20/2009	10:42		
10	PIBLKD1	31091118A045	11/20/2009	11:12	7.28	21.37
11	PEMD1	31091118A046	11/20/2009	11:43	7.27	21.36
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QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HD4

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 11/19/2009 11/19/2009

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.47 DCB: 23.72

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCA2	31091118B004	11/19/2009	14:47	8.48	23.74
02	PEMA2	31091118B005	11/19/2009	15:18	8.48	23.74
03	TOXAPH1A2	31091118B006	11/19/2009	15:48	8.48	23.73
04	TOXAPH2A2	31091118B007	11/19/2009	16:19	8.48	23.73
05	TOXAPH3A2	31091118B008	11/19/2009	16:50	8.48	23.73
06	TOXAPH4A2	31091118B009	11/19/2009	17:21	8.48	23.73
07	TOXAPH5A2	31091118B010	11/19/2009	17:51	8.47	23.72
08	INDC1A2	31091118B011	11/19/2009	18:22	8.47	23.72
09	INDC2A2	31091118B012	11/19/2009	18:52	8.47	23.72
10	INDC3A2	31091118B013	11/19/2009	19:23	8.47	23.72
11	INDC4A2	31091118B014	11/19/2009	19:54	8.47	23.72
12	INDC5A2	31091118B015	11/19/2009	20:25	8.47	23.72
13	PIBLKB2	31091118B016	11/19/2009	20:55	8.47	23.72
14	PEMB2	31091118B017	11/19/2009	21:26	8.47	23.72
15	PBLKW1	31091118B018	11/19/2009	21:57	8.49	23.72
16	PLCSW1	31091118B019	11/19/2009	22:28	8.48	23.72
17	E3HD4	31091118B020	11/19/2009	22:58	8.49	23.72
18	E3HD4MS	31091118B021	11/19/2009	23:29	8.49	23.72
19	E3HD4MSD	31091118B022	11/20/2009	00:00	8.48	23.72
20	E3HD5	31091118B023	11/20/2009	00:30	8.49	23.72
21	E3HD6	31091118B024	11/20/2009	01:01	8.49	23.72
22	E3HD7	31091118B025	11/20/2009	01:31	8.49	23.72
23	E3HD8	31091118B026	11/20/2009	02:02	8.49	23.72
24	E3HD9	31091118B027	11/20/2009	02:32	8.49	23.72
25	E3HE0	31091118B028	11/20/2009	03:03	8.49	23.72
26	E3HE1	31091118B029	11/20/2009	03:33	8.49	23.72
27	E3HE2	31091118B030	11/20/2009	04:04	8.49	23.72
28	E3HE3	31091118B031	11/20/2009	04:35	8.50	23.72
29	ZZZZZ		11/20/2009	05:05		
30	PIBLKC2	31091118B033	11/20/2009	05:36	8.47	23.72
31	INDC3C2	31091118B034	11/20/2009	06:06	8.47	23.72
32	E3HE4	31091118B035	11/20/2009	06:37	8.49	23.72

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 11/19/2009 11/19/2009

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.47 DCB: 23.72

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E3HE7	31091118B036	11/20/2009	07:08	8.49	23.72
02	E3HE8	31091118B037	11/20/2009	07:38	8.49	23.72
03	E3HE9	31091118B038	11/20/2009	08:09	8.50	23.72
04	E3HF0	31091118B039	11/20/2009	08:40	8.49	23.73
05	E3HF1	31091118B040	11/20/2009	09:10	8.50	23.73
06	E3HF2	31091118B041	11/20/2009	09:41	8.49	23.74
07	E3HF5	31091118B042	11/20/2009	10:11	8.49	23.74
08	E3HF6	31091118B043	11/20/2009	10:42	8.49	23.74
09	ZZZZZ		11/20/2009	11:12		
10	PIBLKD2	31091118B045	11/20/2009	11:43	8.47	23.72
11	PEMD2	31091118B046	11/20/2009	12:13	8.47	23.72
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QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A020,31091118B020

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.00042~~	U ~~JP~~
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50 ~~0.022~~	U ~~JP~~
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5-1

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MS(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A021

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q	
319-84-6	alpha-BHC	0.050	U	
319-85-7	beta-BHC	0.0018	~~J~~ U	NC
319-86-8	delta-BHC	0.050 ~~0.0024~~	~~JP~~ U	DRC 2-5-10
58-89-9	gamma-BHC (Lindane)	0.31		
76-44-8	Heptachlor	0.30		
309-00-2	Aldrin	0.32		
1024-57-3	Heptachlor epoxide	0.00044	~~J~~ U	NC
959-98-8	Endosulfan I	0.0055	~~J~~ U	NC
60-57-1	Dieldrin	0.62		
72-55-9	4,4'-DDE	0.10 ~~0.0087~~	~~JP~~ U	
72-20-8	Endrin	0.55		
33213-65-9	Endosulfan II	0.0064	~~J~~ U	NC
72-54-8	4,4'-DDD	0.074	JP	
1031-07-8	Endosulfan sulfate	0.10	U	
50-29-3	4,4'-DDT	0.49	~~P~~ J	
72-43-5	Methoxychlor	0.50	U	
53494-70-5	Endrin ketone	0.062	JP	
7421-93-4	Endrin aldehyde	0.10 ~~0.037~~	~~JBP~~ U	
5103-71-9	alpha-Chlordane	0.0037	~~J~~ U	NC
5103-74-2	gamma-Chlordane	0.0011	~~J~~ U	NC
8001-35-2	Toxaphene	5.0	U	

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MS(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118B021

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050 ~~0.025~~	~~JP~~ U DRC 2-5-10
58-89-9	gamma-BHC (Lindane)	0.32	
76-44-8	Heptachlor	0.32	
309-00-2	Aldrin	0.34	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.64	
72-55-9	4,4'-DDE	0.10 ~~0.0044~~	~~JP~~ U
72-20-8	Endrin	0.65	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.050	JP
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.63	~~P~~ J
72-43-5	Methoxychlor	0.051	J NC
53494-70-5	Endrin ketone	0.046	JP
7421-93-4	Endrin aldehyde	0.10 ~~0.020~~	~~JBP~~ U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MSD(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A022

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.31	
76-44-8	Heptachlor	0.31	
309-00-2	Aldrin	0.33	
1024-57-3	Heptachlor epoxide	0.00021	~~J~~U NC
959-98-8	Endosulfan I	0.0046	~~J~~U NC
60-57-1	Dieldrin	0.63	
72-55-9	4,4'-DDE	0.10 ~~0.0072~~	~~JP~~U
72-20-8	Endrin	0.56	
33213-65-9	Endosulfan II	0.00055	~~J~~U NC
72-54-8	4,4'-DDD	0.071	JP
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.49	~~P~~J
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.059	JP
7421-93-4	Endrin aldehyde	0.10 ~~0.035~~	~~JBP~~U
5103-71-9	alpha-Chlordane	0.0014	~~J~~U NC
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MSD(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118B022

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.029	~~J~~ U
58-89-9	gamma-BHC (Lindane)	0.34	
76-44-8	Heptachlor	0.34	
309-00-2	Aldrin	0.35	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.68	
72-55-9	4,4'-DDE	0.10 ~~0.0040~~	~~JP~~ U
72-20-8	Endrin	0.70	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.056	JP
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.68	~~P~~ J
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.039	JP
7421-93-4	Endrin aldehyde	0.10 ~~0.021~~	~~JBP~~ U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

ORL 12-5-1

NC

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041004

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A023,31091118B023

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0053	J
319-86-8	delta-BHC	0.050 ~~0.0095~~	U ~~JP~~ DRC 2-5-10
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10 ~~0.0010~~	U ~~JBP~~
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A024,31091118B024

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.011	J
319-86-8	delta-BHC	0.050 ~~0.012~~	U ~~JP~~ DRC 2-5-11
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10 ~~0.0021~~	~~J~~ U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10 ~~0.00068~~	~~JBP~~ U DRC 2-5-11
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A025,31091118B025

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.0023~~	~~JP~~ U DRC 2-5-11
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10 ~~0.0013~~	U ~~J~~BP
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A026,31091118B026

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.00023~~	~~JP~~
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10 ~~0.0014~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10 ~~0.0011~~	~~JBP~~ U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5-

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A027,31091118B027

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10 ~~0.00028~~	~~JP~~ U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10 ~~0.0011~~	~~J~~ U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10 ~~0.00046~~	~~JBP~~ U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DIR 2-5-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041009

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A028,31091118B028

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.0038~~	~~JP~~ U
319-86-8	delta-BHC	0.050 ~~0.0040~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.0031	J
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5-1

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041010

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A029,31091118B029

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0037	J
319-86-8	delta-BHC	0.050 ~~0.0047~~	~~J~~P U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050 ~~0.00045~~	~~J~~P U
60-57-1	Dieldrin	0.10 ~~0.00089~~	~~J~~P U
72-55-9	4,4'-DDE	0.10 ~~0.0019~~	~~J~~P U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10 ~~0.00063~~	~~J~~P U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A030,31091118B030

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.00031~~	~~JP~~ U
319-86-8	delta-BHC	0.050 ~~0.0050~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10 ~~0.00041~~	~~JP~~ U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041012

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A031,31091118B031

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0038	J
319-86-8	delta-BHC	0.050 ~~0.0019~~	~~J~~ U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5%

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041013

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A035,31091118B035

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.0062~~	~~J~~P U
319-86-8	delta-BHC	0.050 ~~0.0019~~	~~J~~P U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5-1

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041014

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A036,31091118B036

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10 ~~0.0017~~	~~J~~ U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041015

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A037,31091118B037

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.0049~~	4 ~~JP~~
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10 ~~0.00085~~	~~J~~ U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10 ~~0.00073~~	~~JB~~ P U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041016

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A038,31091118B038

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.00042~~	~~JP~~ U
319-86-8	delta-BHC	0.050 ~~0.0045~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	0.050 ~~0.0016~~	~~JP~~ U
76-44-8	Heptachlor	0.050 ~~0.00066~~	~~JP~~ U
309-00-2	Aldrin	0.050 ~~0.0012~~	~~JP~~ U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10 ~~0.0018~~	~~JP~~ U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10 ~~0.0037~~	~~J~~ U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.0029	J
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041017

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A039,31091118B039

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.0043~~	~~J~~PU
319-86-8	delta-BHC	0.050 ~~0.00048~~	~~J~~PU
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10 ~~0.0048~~	~~J~~BPU
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5-1

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041018

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A040,31091118B040

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050 ~~0.0017~~	~~J~~PU DRL 25-1
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.0026	J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041019

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A041,31091118B041

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.0047~~	~~J~~PU
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050 ~~0.0035~~	~~J~~PU
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10 ~~0.0024~~	~~J~~PU
72-20-8	Endrin	0.10 ~~0.0042~~	~~J~~PU
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10 ~~0.00045~~	~~J~~PU
72-43-5	Methoxychlor	0.50 ~~0.0072~~	~~J~~PU
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRL 2-5-

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A042,31091118B042

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.0026~~	~~J~~PU DEC
319-86-8	delta-BHC	0.050 ~~0.012~~	~~J~~PU 2-5-10
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050 ~~0.00039~~	~~J~~PU
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10 ~~0.00045~~	~~J~~PU
72-55-9	4,4'-DDE	0.0018	J
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10 ~~0.0043~~	~~J~~PU
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor 0.50	~~0.00039~~ ~~0.00088~~	~~J~~PU DEC 2-5-1
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A043,31091118B043

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 ~~0.0042~~	~~J~~P U DRC 12-5-10
319-86-8	delta-BHC	0.050 ~~0.011~~	~~J~~P U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050 ~~0.0021~~	~~J~~P U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.0020	J
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10 ~~0.0023~~	~~J~~P U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 124133

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A018,31091118B018

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10 ~~0.03~~ ~~0.0017~~	~~J~~ U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 2-5-1

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSW1(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 124135

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118A019

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.034	J
76-44-8	Heptachlor	0.00035	~~J~~ U NC
309-00-2	Aldrin	0.00087	~~J~~ U NC
1024-57-3	Heptachlor epoxide	0.036	J
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.070	J
72-55-9	4,4'-DDE	0.090	J~~P~~
72-20-8	Endrin	0.10 ~~0.058~~	~~J~~ U
33213-65-9	Endosulfan II	0.0093	~~J~~ U NC
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.065	J
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.0069	J
7421-93-4	Endrin aldehyde	0.0072	JB
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.037	J
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSW1(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 124135

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31091118B019

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q	
319-84-6	alpha-BHC	0.050	U	
319-85-7	beta-BHC	0.0014	~~J~~ U	NC
319-86-8	delta-BHC	0.0018	~~J~~ U	NC
58-89-9	gamma-BHC (Lindane)	0.032	J	
76-44-8	Heptachlor	0.050	U	
309-00-2	Aldrin	0.050	U	
1024-57-3	Heptachlor epoxide	0.035	J	
959-98-8	Endosulfan I	0.050	U	
60-57-1	Dieldrin	0.066	J	
72-55-9	4,4'-DDE	0.062	J~~B~~	
72-20-8	Endrin	0.10 ~~0.063~~	~~J~~ U	
33213-65-9	Endosulfan II	0.10	U	
72-54-8	4,4'-DDD	0.00071	~~J~~ U	NC
1031-07-8	Endosulfan sulfate	0.066	J	
50-29-3	4,4'-DDT	0.10	U	
72-43-5	Methoxychlor	0.0033	~~J~~ U	NC
53494-70-5	Endrin ketone	0.0068	J	
7421-93-4	Endrin aldehyde	0.0086	JB	
5103-71-9	alpha-Chlordane	0.050	U	
5103-74-2	gamma-Chlordane	0.034	J	
8001-35-2	Toxaphene	5.0	U	

2Q - FORM II ARO-1

WATER AROCLOR SURROGATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ABLKW1	67	67	59	64			0
02	ALCSW1	64	65	58	60			0
03	E3HD4	59	67	55	60			0
04	E3HD5	58	66	57	61			0
05	E3HD6	58	62	57	61			0
06	E3HD7	58	65	55	61			0
07	E3HD8	59	65	57	63			0
08	E3HD9	59	65	56	62			0
09	E3HE0	59	67	60	63			0
10	E3HE1	56	66	54	63			0
11	E3HE2	62	70	59	67			0
12	E3HE3	53	61	52	58			0
13	E3HE4	58	67	57	62			0
14	E3HE7	58	65	56	61			0
15	E3HE8	61	71	58	67			0
16	E3HE9	59	66	57	62			0
17	E3HF0	58	66	55	61			0
18	E3HF1	58	68	55	64			0
19	E3HF2	60	70	58	65			0
20	E3HF5	51	59	52	57			0
21	E3HF6	60	71	60	65			0
22	E3HD4MS	57	64	55	58			0
23	E3HD4MSD	57	65	56	60			0
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3J- FORM III ARO-1

WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix Spike - EPA Sample No.: E3HD4

Instrument ID: GCE20 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
AR1016	4.0	0	2.2	56	29-135
AR1260	4.0	0	2.4	61	29-135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	4.0	2.2	54	3	0-15	29-135
AR1260	4.0	2.4	59	3	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3J- FORM III ARO-1

WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix Spike - EPA Sample No.: E3HD4

Instrument ID: GCE20 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
AR1016	4.0	0	2.7	67	29-135
AR1260	4.0	0	2.6	65	29-135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	4.0	2.5	64	5	0-15	29-135
AR1260	4.0	2.6	64	1	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3N - FORM III ARO-3

WATER AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSW1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Lab Sample ID: 124134 LCS Lot No.: _____

Date Extracted: 11/15/2009 Date Analyzed (1): 11/18/2009

Instrument ID (1): GCE20 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC	#	QC LIMITS
AR1016	1.0	0.84	84		50-150
AR1260	1.0	0.74	74		50-150

Instrument ID (2): GCE20 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 11/18/2009

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC	#	QC LIMITS
AR1016	1.0	0.84	84		50-150
AR1260	1.0	0.67	67		50-150

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS: _____

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLKW1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Lab File ID: 20091118A020,20091118B020 Lab Sample ID: 124133

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 11/15/2009

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 11/18/2009 Date Analyzed (2): 11/18/2009

Time Analyzed (1): 17:35 Time Analyzed (2): 17:55

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCSW1	124134	11/18/2009	11/18/2009
02	E3HD4	9317041001	11/18/2009	11/18/2009
03	E3HD5	9317041004	11/18/2009	11/18/2009
04	E3HD6	9317041005	11/18/2009	11/18/2009
05	E3HD7	9317041006	11/18/2009	11/18/2009
06	E3HD8	9317041007	11/18/2009	11/18/2009
07	E3HD9	9317041008	11/18/2009	11/18/2009
08	E3HE0	9317041009	11/18/2009	11/18/2009
09	E3HE1	9317041010	11/18/2009	11/18/2009
10	E3HE2	9317041011	11/18/2009	11/18/2009
11	E3HE3	9317041012	11/18/2009	11/18/2009
12	E3HE4	9317041013	11/18/2009	11/18/2009
13	E3HE7	9317041014	11/18/2009	11/18/2009
14	E3HE8	9317041015	11/18/2009	11/18/2009
15	E3HE9	9317041016	11/18/2009	11/18/2009
16	E3HF0	9317041017	11/18/2009	11/19/2009
17	E3HF1	9317041018	11/19/2009	11/19/2009
18	E3HF2	9317041019	11/19/2009	11/19/2009
19	E3HF5	9317041022	11/19/2009	11/19/2009
20	E3HF6	9317041023	11/19/2009	11/19/2009
21	E3HD4MS	9317041002	11/18/2009	11/18/2009
22	E3HD4MSD	9317041003	11/18/2009	11/18/2009
23				
24				
25				
26				

COMMENTS: _____

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLKW1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 124133

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A020,20091118B020

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041001

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 20091118A022,20091118B022

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 11/12/2009

Extraction: (Type) SEPF

Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MS(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A023

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	2.2	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	2.4	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MS(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118B023

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	2.7	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	2.6	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MSD(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A024

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	2.2	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	2.4	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD4MSD(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118B024

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	2.5	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	2.6	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041004

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A025,20091118B025

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A026,20091118B026

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A027,20091118B027

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD8

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041007

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 20091118A028,20091118B028

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 11/12/2009

Extraction: (Type) SEPF

Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A029,20091118B029

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE0

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 9317041009

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 20091118A030,20091118B030

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 11/12/2009

Extraction: (Type) SEPF

Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041010

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A031,20091118B031

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A032,20091118B032

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041012

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A033,20091118B033

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE4

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041013

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A034,20091118B034

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041014

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A035,20091118B035

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041015

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A036,20091118B036

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HE9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041016

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A037,20091118B037

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041017

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A038,20091118B038

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041018

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A039,20091118B039

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041019

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A040,20091118B040

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF5

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041022

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A041,20091118B041

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HF6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 9317041023

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A042,20091118B042

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/12/2009

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/19/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSW1(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 124134

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118A021

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	0.84	J
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	0.74	J
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSW1(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HD4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 124134

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20091118B021

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 11/15/2009

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/18/2009

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

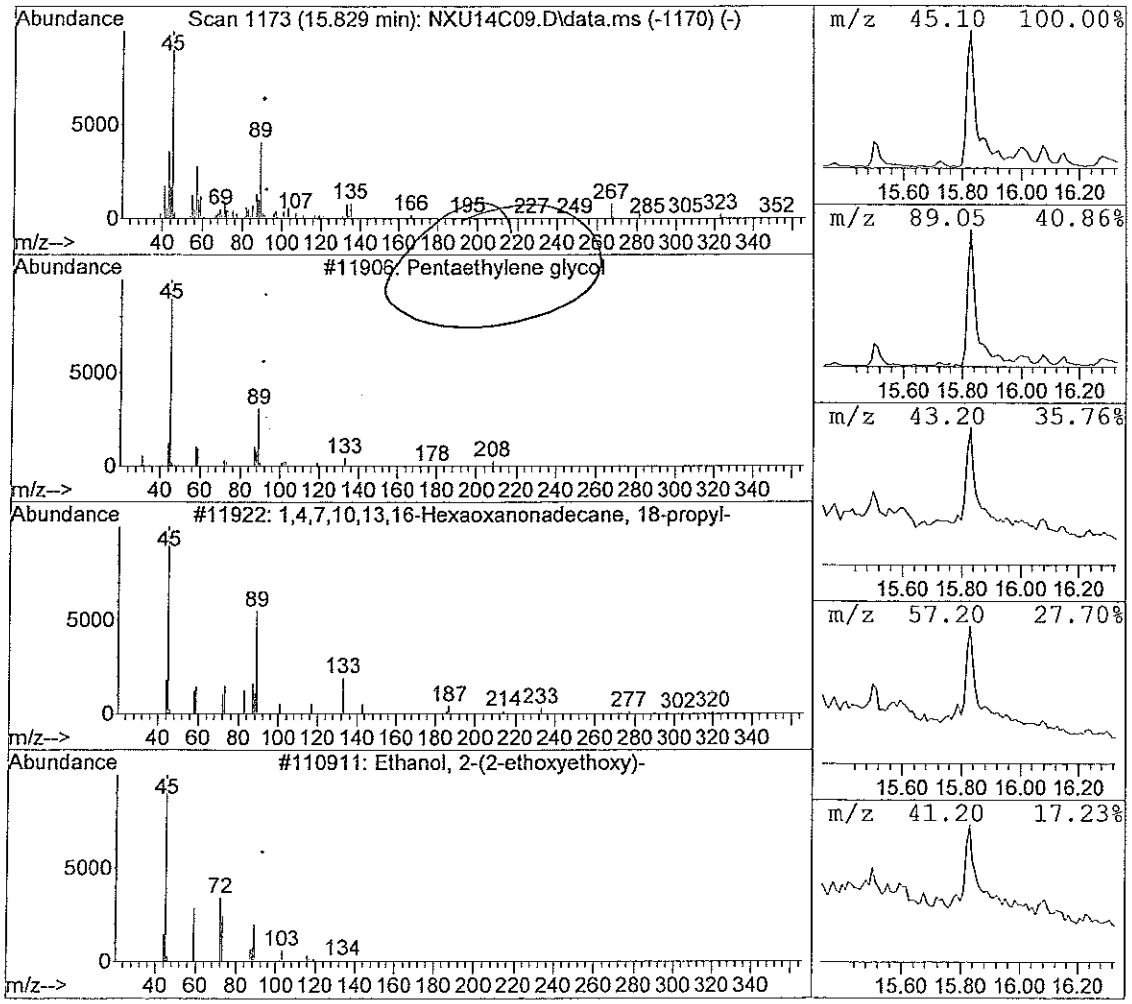
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	0.84	J
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	0.67	J
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File : C:\msdchem\1\DATA\E3HD4\NXU14C09.D
Acq Time : 11/17/2009 15:54 Operator: RAH
Sample : 9317041009 E3HE0 Inst : 5972-N
Misc : . WATER SOMO Injection volume : 1uL

Method : C:\msdchem\1\METHODS\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\DATABASE\NIST98.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.83	15.98 ug/ml	3991051	Chrysene-d12	4993678

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentaethylene glycol	11906	004792-15-8	86.00
2	1,4,7,10,13,16-Hexaoxanonadecane, 1	11922	1000163-65-3	64.00
3	Ethanol, 2-(2-ethoxyethoxy)-	110911	000111-90-0	52.00
4	Diisopropyl ether	110833	000108-20-3	49.00
5	12-Crown-4	110814	000294-93-9	45.00

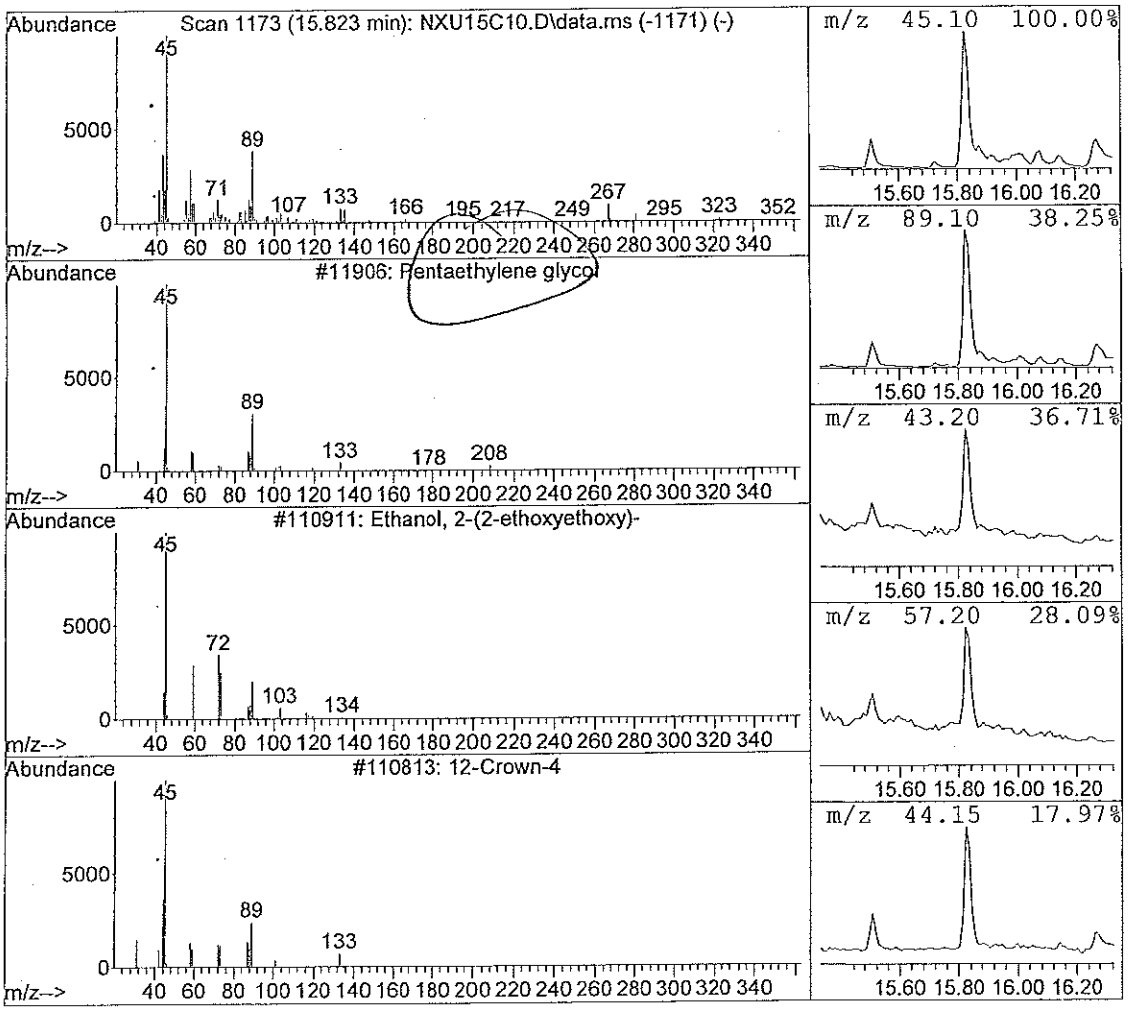


Data File : C:\msdchem\1\DATA\E3HD4\NXU15C10.D
Acq Time : 11/17/2009 16:28 Operator: RAH
Sample : 9317041010 E3HE1 Inst : 5972-N
Misc : . WATER SOMO Injection volume : 1uL

Method : C:\msdchem\1\METHODS\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\DATABASE\NIST98.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.82	8.64 ug/ml	2069013	Chrysene-d12	4787588

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentaethylene glycol	11906	004792-15-8	83.00
2	Ethanol, 2-(2-ethoxyethoxy)-	110911	000111-90-0	49.00
3	12-Crown-4	110813	000294-93-9	45.00
4	2-Propanol, 1-bromo-	110889	019686-73-8	43.00
5	1,4,7,10,13,16-Hexaoxacyclononadeca	117118	109773-70-8	42.00



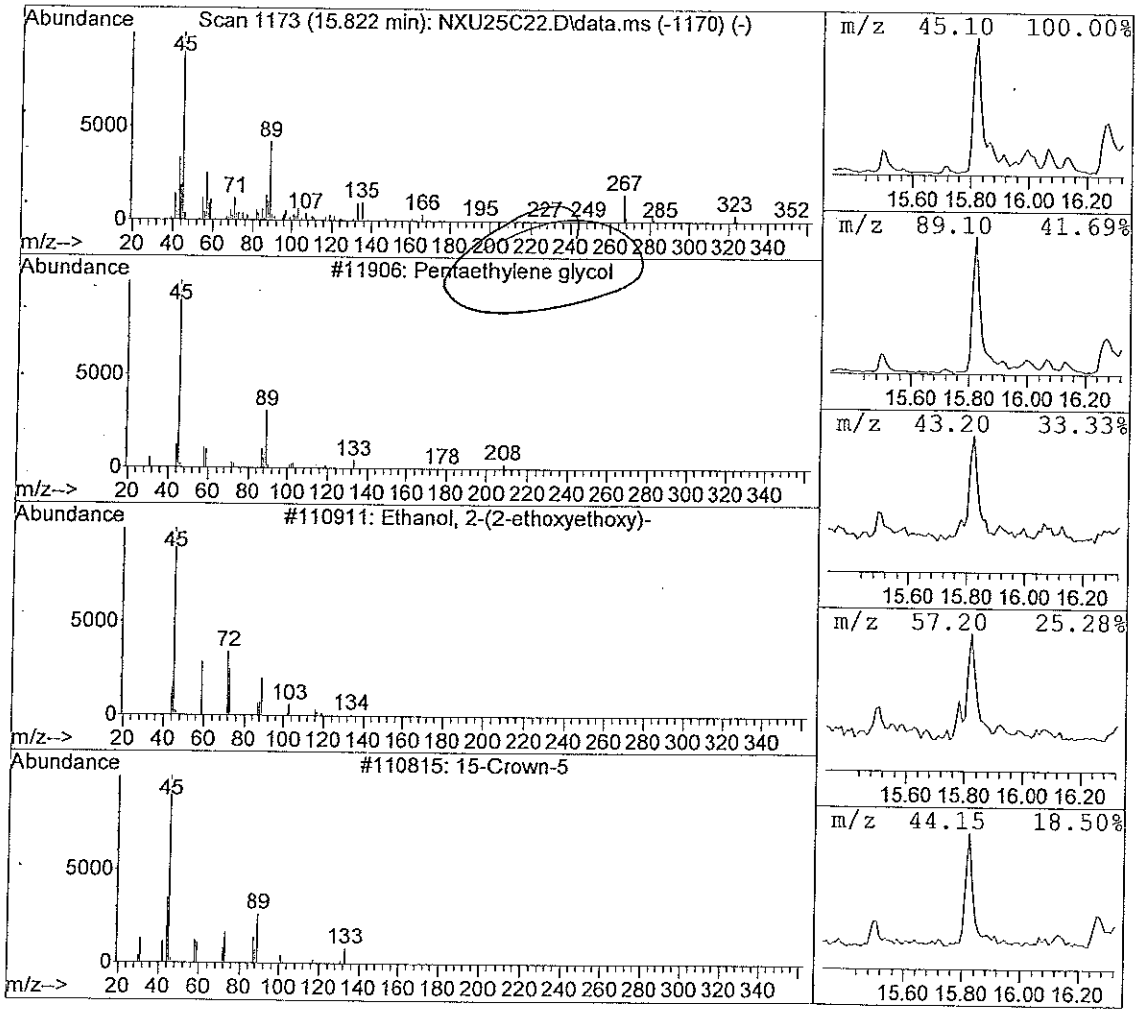
Data File : C:\msdchem\1\DATA\E3HD4\NXU25C22.D
Acq Time : 11/17/2009 22:10
Sample : 9317041022 E3HF5
Misc : . WATER SOMO

Operator: RAH
Inst : 5972-N
Injection volume : 1uL

Method : C:\msdchem\1\METHODS\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\DATABASE\NIST98.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.82	8.35 ug/ml	1773630	Chrysene-d12	4249035

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentaethylene glycol	11906	004792-15-8	80.00
2	Ethanol, 2-(2-ethoxyethoxy)-	110911	000111-90-0	49.00
3	15-Crown-5	110815	033100-27-5	42.00
4	Ethanol, 2-[2-(2-methoxyethoxy)etho	11712	000112-35-6	42.00
5	12-Crown-4	110812	000294-93-9	40.00

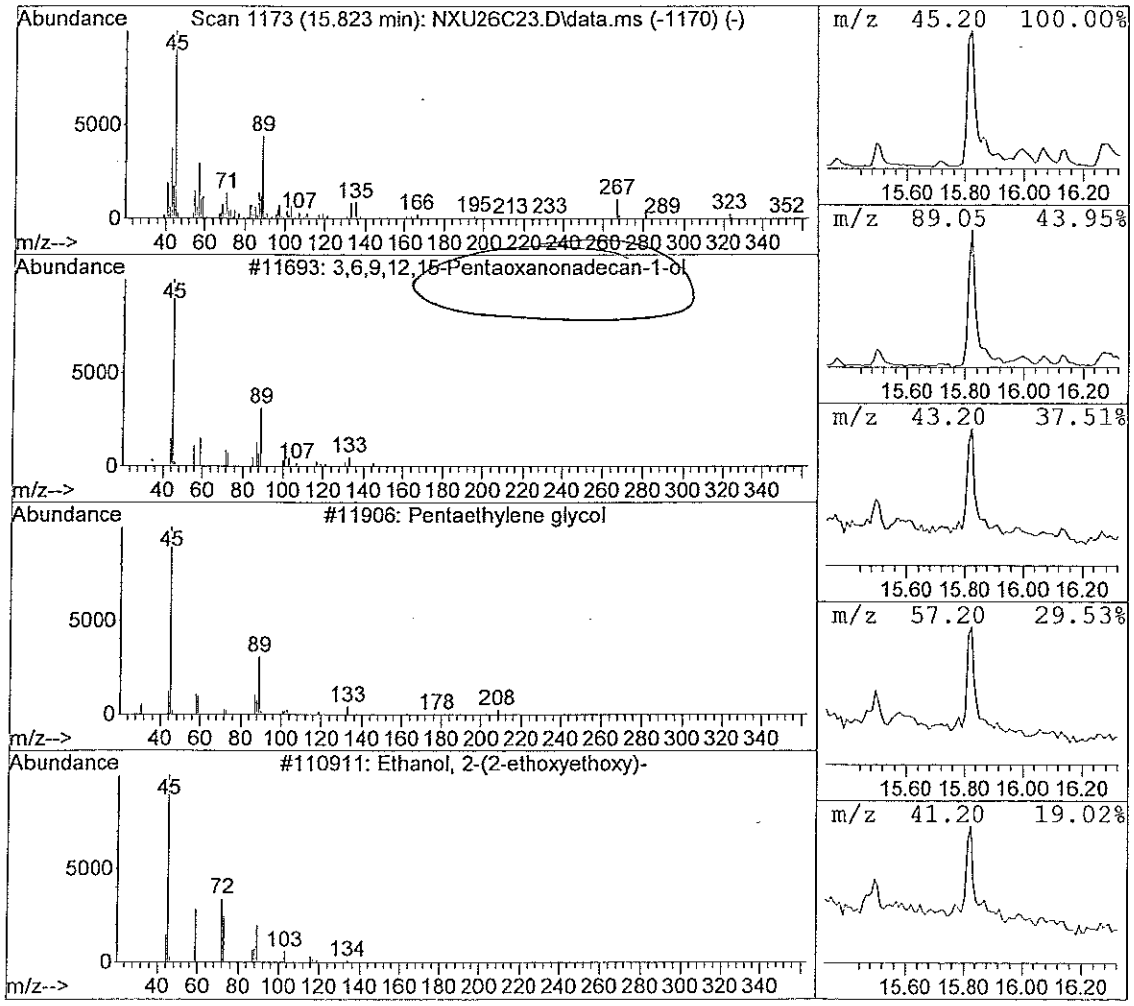


Data File : C:\msdchem\1\DATA\E3HD4\NXU26C23.D
Acq Time : 11/17/2009 22:45 Operator: RAH
Sample : 9317041023 E3HF6 Inst : 5972-N
Misc : . WATER SOMO Injection volume : 1uL

Method : C:\msdchem\1\METHODS\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\DATABASE\NIST98.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.82	10.91 ug/ml	2316505	Chrysene-d12	4244690

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,6,9,12,15-Pentaoxanonadecan-1-ol	11693	001786-94-3	64.00
2	Pentaethylene glycol	11906	004792-15-8	59.00
3	Ethanol, 2-(2-ethoxyethoxy)-	110911	000111-90-0	52.00
4	12-Crown-4	11522	000294-93-9	45.00
5	2,5,8,11,14-Pentaoxahexadecan-16-ol	11723	023778-52-1	40.00



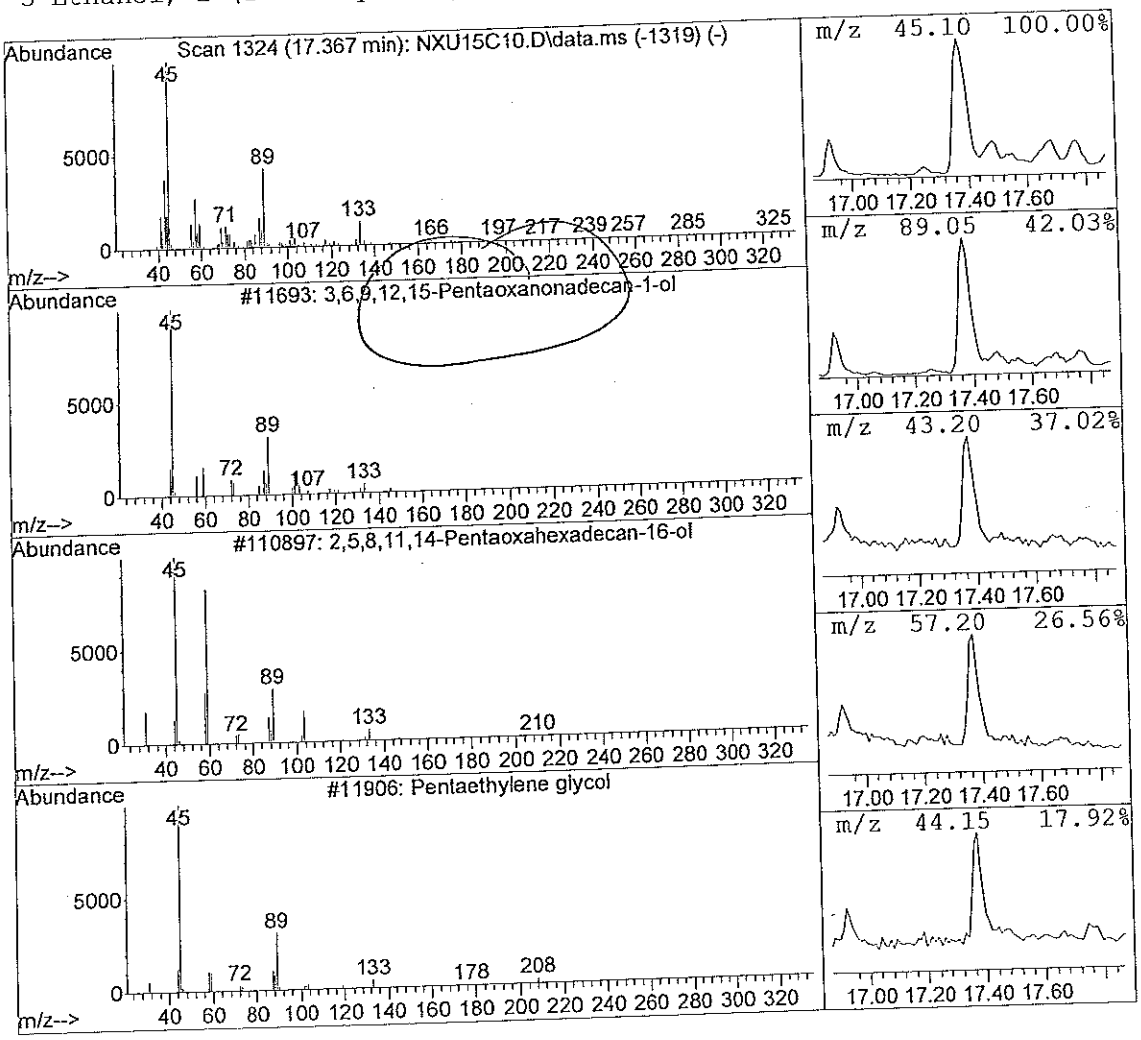
Data File : C:\msdchem\1\DATA\E3HD4\NXU15C10.D
Acq Time : 11/17/2009 16:28
Sample : 9317041010 E3HE1
Misc : . WATER SOMO

Operator: RAH
Inst : 5972-N
Injection volume : 1uL

Method : C:\msdchem\1\METHODS\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\DATABASE\NIST98.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.37	7.21 ug/ml	1593125	Perylene-d12	4420979

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,6,9,12,15-Pentaoxanonadecan-1-ol	11693	001786-94-3	91.00
2	2,5,8,11,14-Pentaoxahexadecan-16-ol	110897	023778-52-1	64.00
3	Pentaethylene glycol	11906	004792-15-8	59.00
4	1,4,7,10,13,16-Hexaoxacyclooctadeca	110947	017455-13-9	58.00
5	Ethanol, 2-(2-ethoxyethoxy)-	110911	000111-90-0	58.00



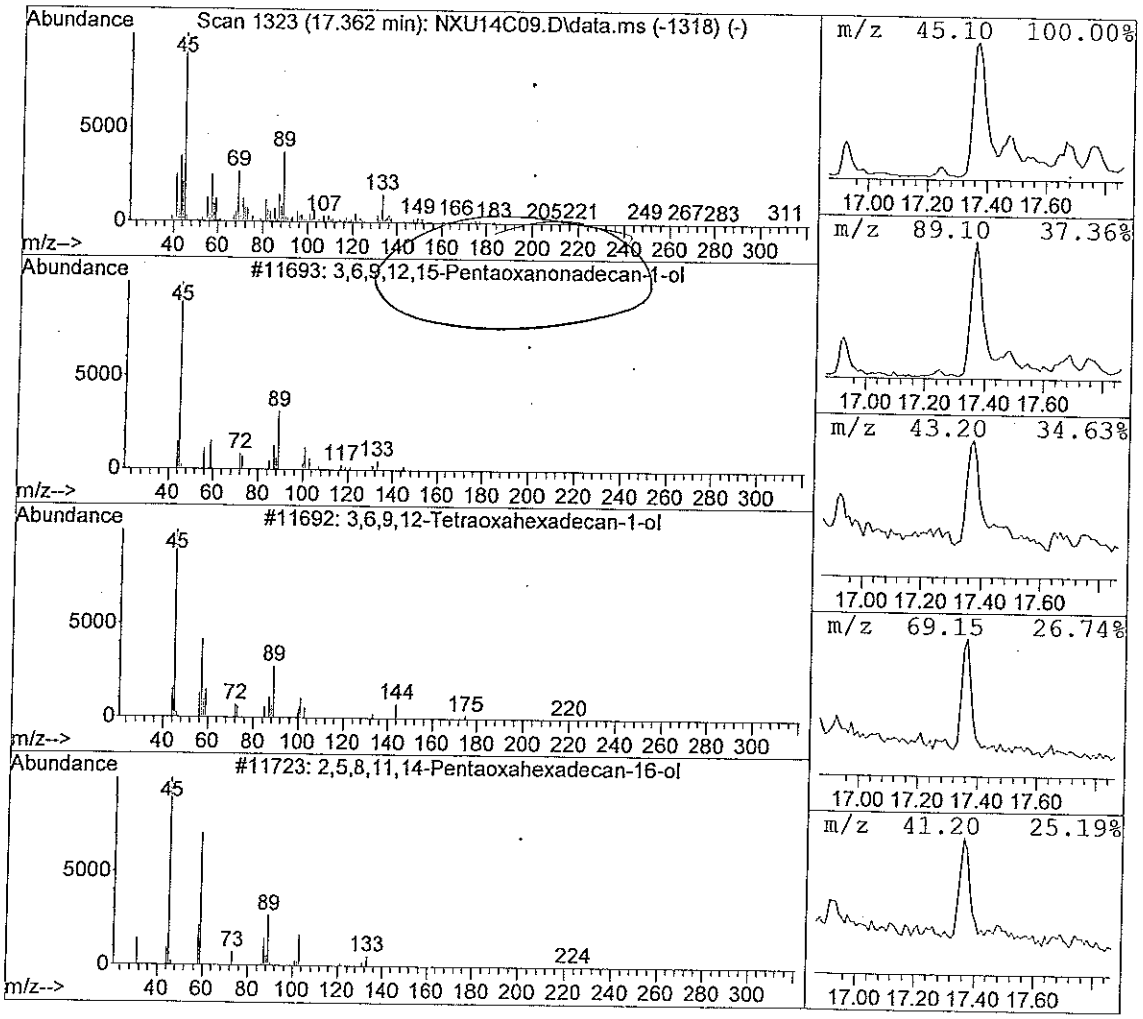
Data File : C:\msdchem\1\DATA\E3HD4\NXU14C09.D
Acq Time : 11/17/2009 15:54
Sample : 9317041009 E3HE0
Misc : . WATER SOMO

Operator: RAH
Inst : 5972-N
Injection volume : 1uL

Method : C:\msdchem\1\METHODS\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\DATABASE\NIST98.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.36	5.01 ug/ml	1191818	Perylene-d12	4761729

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,6,9,12,15-Pentaoxanonadecan-1-ol	11693	001786-94-3	80.00
2	3,6,9,12-Tetraoxahexadecan-1-ol	11692	001559-34-8	64.00
3	2,5,8,11,14-Pentaoxahexadecan-16-ol	11723	023778-52-1	64.00
4	13,13-Dimethyl-3,6,9-trioxa-13-sila	11800	1000213-34-9	59.00
5	15-Crown-5	110815	033100-27-5	50.00



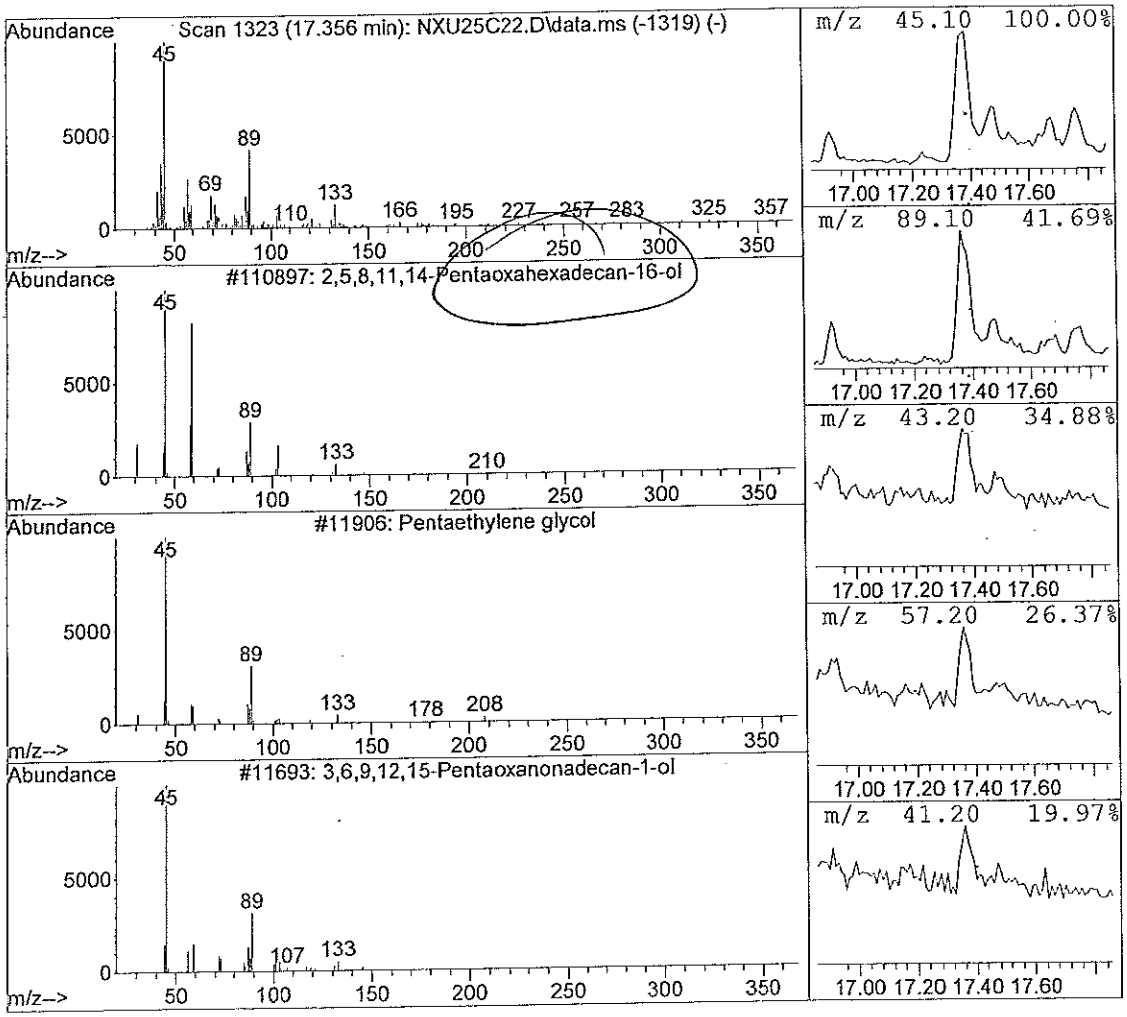
Data File : C:\msdchem\1\DATA\E3HD4\NXU25C22.D
Acq Time : 11/17/2009 22:10
Sample : 9317041022 E3HF5
Misc : . WATER SOMO

Operator: RAH
Inst : 5972-N
Injection volume : 1uL

Method : C:\msdchem\1\METHODS\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\DATABASE\NIST98.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.36	4.11 ug/ml	743532	Perylene-d12	3615919

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,8,11,14-Pentaoxahexadecan-16-ol	110897	023778-52-1	64.00
2	Pentaethylene glycol	11906	004792-15-8	64.00
3	3,6,9,12,15-Pentaoxanonadecan-1-ol	11693	001786-94-3	64.00
4	15-Crown-5	11597	033100-27-5	56.00
5	Ethanol, 2-[2-(2-methoxyethoxy)etho	11712	000112-35-6	50.00



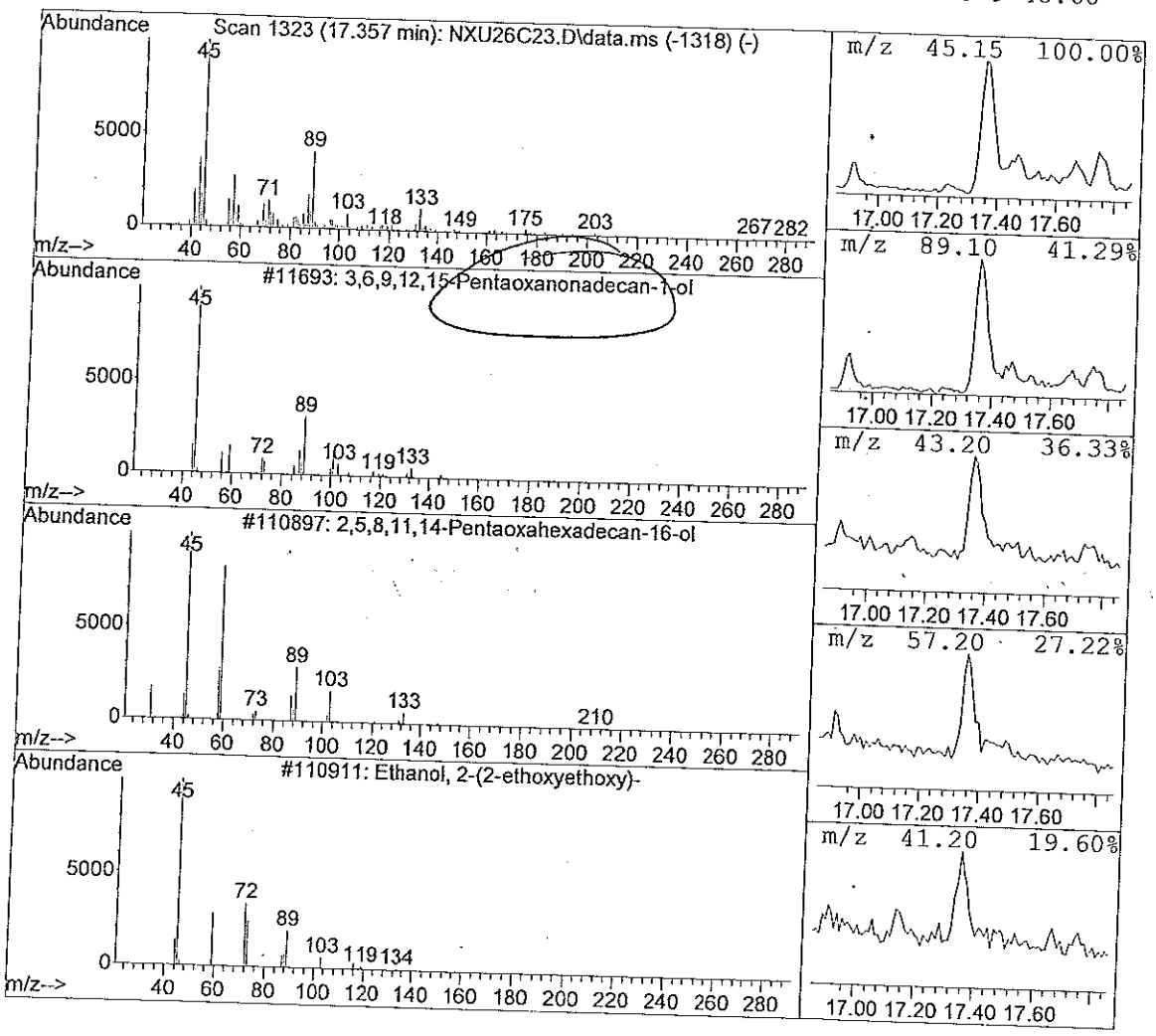
Data File : C:\msdchem\1\DATA\E3HD4\NXU26C23.D
Acq Time : 11/17/2009 22:45
Sample : 9317041023 E3HF6
Misc : . WATER SOMO

Operator: RAH
Inst : 5972-N
Injection volume : 1uL

Method : C:\msdchem\1\METHODS\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\DATABASE\NIST98.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.36	4.15 ug/ml	812789	Perylene-d12	3918317

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,6,9,12,15-Pentaoxanonadecan-1-ol	11693	001786-94-3	72.00
2	2,5,8,11,14-Pentaoxahexadecan-16-ol	110897	023778-52-1	56.00
3	Ethanol, 2-(2-ethoxyethoxy)-	110911	000111-90-0	50.00
4	Diisopropyl ether	110833	000108-20-3	46.00
5	1,4,7,10,13,16-Hexaoxacyclooctadeca	110838	017455-13-9	45.00



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: Q3HD4 CERCLIS No: WIN005103601

Case No: 39181 Site Name/Location: Hartland Well #3(WI)

Contractor or EPA Lab: CLP DataChem Data User: WDNR

No. of Samples: 21 Date Sampled or Date Received: 30 NOV 09

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes X No ____
No of samples claimed: 21 No. of samples received: ____

Received by: Pat Joyner Date: 30 NOV 09

Received by LSSS: Pat Joyner Date: 1 Dec 09

Review started: 2/2/10 Reviewer Signature: Deborah Comst

Total time spent on review: 26.0 + 1.3 Date review completed: 2/5/10

Copied by: A. C. Harvey Date: Feb 11, 2010

Mailed to user by: Pat Joyner Date: 16 FEB 10

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

Analytical Results (Qualified Data)

Case #: 39181 SDG : ME3HC6
Site : HARTLAND WELL #3
Lab. : SVL
Reviewer : D. CONNET
Date : 1/29/2010

Number of Soil Samples : 6
Number of Water Samples : 0

Sample Number :	ME3HC6		ME3HC7		ME3HC8		ME3HC9		ME3HD0	
Sampling Location :	SS-1		SS-2		SS-3		SS-4		SS-5	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/2/2009		11/3/2009		11/3/2009		11/3/2009		11/3/2009	
Time Sampled :										
%Solids :	92.0		76.3		77.3		77.4		75.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3490	J	6750	J	7370	J	8740	J	7820	J
ANTIMONY	6.5	UJ	7.9	UJ	7.8	UJ	7.8	UJ	8.0	UJ
ARSENIC	2.7	J-	4.1	J-	3.8	J-	5.3	J-	3.8	J-
BARIUM	31.3	J	99.9	J	97.4	J	101	J	94.2	J
BERYLLIUM	0.54	U	0.66	U	0.65	U	0.65	U	0.66	U
CADMIUM	0.35	J	0.66	U	0.65	U	0.65	U	0.66	U
CALCIUM	116000	J	17700	J	15600	J	4560	J	28400	J
CHROMIUM	11.5		10.9		12.0		15.1		11.8	
COBALT	3.4	J	6.8	J	6.8	J	8.8	J	7.6	J
COPPER	20.1		12.7		11.2		13.5		11.8	
IRON	9590	J	12000	J	13100	J	16500	J	13300	J
LEAD	11.6	J	16.5	J	14.4	J	25.4	J	14.8	J
MAGNESIUM	69100	J	11300	J	10100	J	3660	J	18300	J
MANGANESE	367	J	816	J	771	J	822	J	815	J
MERCURY	0.11	U	0.046	J	0.039	J	0.039	J	0.13	U
NICKEL	10.0	J	10.2	J	11.4	J	12.8	J	11.5	J
POTASSIUM	421	J	810	J	641	J	782	J	870	J
SELENIUM	11.4	UJ	4.6	UJ	4.5	UJ	4.5	UJ	4.6	UJ
SILVER	1.1	U	1.3	U	1.3	U	1.3	U	1.3	U
SODIUM	167	J	44.7	J	43.3	J	30.0	J	59.8	J
THALLIUM	2.7	U	3.3	U	3.2	U	3.2	U	3.3	U
VANADIUM	13.0		20.7		22.5		27.2		24.0	
ZINC	47.4	J	38.5	J	38.8	J	41.3	J	37.3	J
CYANIDE	1.9	J-	3.3	U	0.29	J-	0.35	J-	0.35	J-

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case #: 39181 SDG : ME3HC6
Site : HARTLAND WELL #3
Lab. : SVL
Reviewer : D. CONNET
Date : 1/29/2010

Sample Number :	ME3HD3									
Sampling Location :	SS-8									
Matrix :	Soil									
Units :	mg/Kg									
Date Sampled :	11/3/2009									
Time Sampled :										
%Solids :	81.5									
Dilution Factor :	1.0									
ANALYTE	Result	Flag					Result	Flag	Result	Flag
ALUMINUM	7860	J								
ANTIMONY	7.4	UJ								
ARSENIC	3.5	J-								
BARIUM	106	J								
BERYLLIUM	0.61	U								
CADMIUM	0.61	U								
CALCIUM	20000	J								
CHROMIUM	11.9									
COBALT	7.9	J								
COPPER	11.8									
IRON	13200	J								
LEAD	14.4	J								
MAGNESIUM	13000	J								
MANGANESE	1010	J								
MERCURY	0.12	U								
NICKEL	12.2	J								
POTASSIUM	837	J								
SELENIUM	4.3	UJ								
SILVER	1.2	U								
SODIUM	46.6	J								
THALLIUM	3.1	U								
VANADIUM	23.5									
ZINC	37.2	J								
CYANIDE	0.34	J-								

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

W9K0095

Case No:	39181
DAS No:	
SDG No:	ME3HC6

L

Date Shipped:	11/3/09
Carrier Name:	FedEx
Airbill:	846761795243
Shipped to:	SVL Analytical, Inc. One Government Gulch Kellogg ID 83837 (208) 784-1258

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Mark Drews	11/3/09 1425	Julie Hurley	11-3-09 14:30
2 Julie Hurley	11-3-09 14:35	R. Stribling	11/04/2009 11:30
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	EPW-08068
Unit Price:	24420
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME3HC6	Soil/ Mark Drews	L/G	ICP-AES (14)	5C-093006 (1)	SS-1	S: 11/2/09	8:35	E3HC6	
ME3HC7	Soil/ Mark Drews	L/G	ICP-AES (14)	5C-093012 (1)	SS-2	S: 11/3/09	11:20	E3HC7	
ME3HC8	Soil/ Mark Drews	L/G	ICP-AES (14)	5C-093018 (1)	SS-3	S: 11/3/09	11:40	E3HC8	
ME3HC9	Soil/ Mark Drews	L/G	ICP-AES (14)	5C-093030 (1)	SS-4	S: 11/3/09	11:57	E3HC9	
ME3HD0	Soil/ Mark Drews	L/G	ICP-AES (14)	5C-093036 (1)	SS-5	S: 11/3/09	12:21	E3HD0	
ME3HD3	Soil/ Mark Drews	L/G	ICP-AES (14)	5C-093054 (1)	SS-8	S: 11/3/09	12:21	E3HD3	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME3HC9	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.3	Chain of Custody Seal Number: 138387/138388
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

ICP-AES = ICP-AES (Metals, Mercury, Cyanide)

TR Number: 5-004435316-110309-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

Analytical Results (Qualified Data)

Case #: 39181 SDG : ME3HD1
Site : HARTLAND WELL #3
Lab. : SVL
Reviewer : D. CONNET
Date : 1/28/2010

Number of Soil Samples : 2
Number of Water Samples : 0

Sample Number :	ME3HD1		ME3HD2							
Sampling Location :	SS-6		SS-7							
Matrix :	Soil		Soil							
Units :	mg/Kg		mg/Kg							
Date Sampled :	11/4/2009		11/4/2009							
Time Sampled :										
%Solids :	86.8		81.0							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5470		12100							
ANTIMONY	0.97	J-	7.4	UJ						
ARSENIC	1.9	J-	5.2	J-						
BARIUM	72.1		98.0							
BERYLLIUM	0.58	UJ	0.62	UJ						
CADMIUM	0.58	UJ	0.62	R						
CALCIUM	47600		8950							
CHROMIUM	13.1		17.3							
COBALT	4.9	J	7.9							
COPPER	37.9	J	16.5	J						
IRON	10200		17900							
LEAD	24.3		16.8							
MAGNESIUM	29000		6800							
MANGANESE	472		623							
MERCURY	0.12	U	0.12	U						
NICKEL	12.0		16.8							
POTASSIUM	637		931							
SELENIUM	4.0	UJ	4.3	UJ						
SILVER	1.2	U	1.2	U						
SODIUM	851		374	J						
THALLIUM	2.9	U	3.1	U						
VANADIUM	19.2		30.6							
ZINC	84.9	J	41.4	J						
CYANIDE	2.9	UJ	3.1	UJ						

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/28/10

SUBJECT: Review of Data
Received for review on 11/18/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data by CADRE for the following case:

SITE NAME: Hartland Well #3 (WI)

CASE NUMBER: 39181 **SDG NUMBER:** ME3HD1

Number and Type of Samples: 2 soils

Sample Numbers: ME3HD1-D2

Laboratory: SVL Analytical, Inc **Hrs. for Review:** _____

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Two (2) soil samples, numbered ME3HD1-D2, were collected on November 4, 2009. The lab received the samples on November 5, 2009, in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

The CRQL value for cyanide on Form 9-IN was incorrectly reported as 10 ug/L. The correct value should be reported as 50 ug/L.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Beryllium
ME3HD1, ME3HD2

Cyanide
ME3HD1, ME3HD2

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Arsenic
ME3HD1, ME3HD2

No samples were identified as field blanks.

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
ME3HD1, ME3HD2

Zinc
ME3HD1, ME3HD2

Cyanide
ME3HD1, ME3HD2

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%.
Hits are qualified "J-" and non-detects are qualified "UJ".

Selenium
ME3HD1, ME3HD2

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria. Region 5 uses 35%RPD control criteria for soil samples.
Hits are qualified "J" and non-detects are qualified "UJ".

Zinc
ME3HD1, ME3HD2

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.
Hits are qualified "J" and non-detects are qualified "UJ".

Beryllium
ME3HD1, ME3HD2

Copper
ME3HD1, ME3HD2

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.
Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Antimony
ME3HD1, ME3HD2

Cadmium
ME3HD1, ME3HD2

The following inorganic samples are associated with negative sample results whose absolute values are greater than the CRQL, indicating interference.
Non-detects are qualified "R".

Cadmium
ME3HD2

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Antimony
ME3HD1

Cobalt
ME3HD1

Sodium
ME3HD2

All data, except those qualified above, are acceptable.

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/28/10

SUBJECT: Review of Data
Received for review on 11/18/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data by CADRE for the following case:

SITE NAME: Hartland Well #3 (WI)

CASE NUMBER: 39181 **SDG NUMBER:** ME3HD1

Number and Type of Samples: 2 soils

Sample Numbers: ME3HD1-D2

Laboratory: SVL Analytical, Inc **Hrs. for Review:** _____

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Two (2) soil samples, numbered ME3HD1-D2, were collected on November 4, 2009. The lab received the samples on November 5, 2009, in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

The CRQL value for cyanide on Form 9-IN was incorrectly reported as 10 ug/L. The correct value should be reported as 50 ug/L.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Beryllium
ME3HD1, ME3HD2

Cyanide
ME3HD1, ME3HD2

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Arsenic
ME3HD1, ME3HD2

No samples were identified as field blanks.

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
ME3HD1, ME3HD2

Zinc
ME3HD1, ME3HD2

Cyanide
ME3HD1, ME3HD2

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%.
Hits are qualified "J-" and non-detects are qualified "UJ".

Selenium
ME3HD1, ME3HD2

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria. Region 5 uses 35%RPD control criteria for soil samples.
Hits are qualified "J" and non-detects are qualified "UJ".

Zinc
ME3HD1, ME3HD2

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.
Hits are qualified "J" and non-detects are qualified "UJ".

Beryllium
ME3HD1, ME3HD2

Copper
ME3HD1, ME3HD2

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.
Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Antimony
ME3HD1, ME3HD2

Cadmium
ME3HD1, ME3HD2

The following inorganic samples are associated with negative sample results whose absolute values are greater than the CRQL, indicating interference.
Non-detects are qualified "R".

Cadmium
ME3HD2

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Antimony
ME3HD1

Cobalt
ME3HD1

Sodium
ME3HD2

All data, except those qualified above, are acceptable.

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME3HD1 CERCLIS No: WIN00510360

Case No: 39181 Site Name/Location: Hartland Well #3 (W.I)

Contractor or EPA Lab: SVL analytical Data User: WDNR

No. of Samples: 2 Date Sampled or Date Received: 18 Nov 09

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes X No ____
No of samples claimed: 2 No. of samples received: ____

Received by: Pat Ajoyner Date: 18 Nov 09

Received by LSSS: Pat Ajoyner Date: 19 Nov 09

Review started: 1/28/10 Reviewer Signature: Deborah Connet

Total time spent on review: 4.0 +0.5 82 2/11/10 Date review completed: 1/28/10

Copied by: A. C. Harvey Date: 2/2/10

Mailed to user by: Pat Ajoyner Date: 3 Feb 10

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HD1

Instrument ID: OPTIMA5 Analysis Method: P

Start Date: 11/15/2009 End Date: 11/15/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1110	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1116		X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X			
S	1.0	1121	X						X				X		X							X						
S	1.0	1126																										
ICV	1.0	1131	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1137	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	1143	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	1148			X																							
ICSA	1.0	1154	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1200	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1206	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1212	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBS	1.0	1220	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCSS	1.0	1226	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HD1	1.0	1232	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HD1D	1.0	1238	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HD1L	5.0	1244	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HD1S	1.0	1250	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HD2	1.0	1257	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HD1A	1.0	1311		X																X					X			
CCV	1.0	1317	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1323	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	1334	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	1340	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1346	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1353	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1359	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG No.: ME3HD1

Instrument ID: Alpkem FS3000 Analysis Method: AS

Start Date: 11/16/2009 End Date: 11/16/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
BASELINE	1.0	1452																								X		
ME3HD2	1.0	1454																								X		
CRI	1.0	1456																								X		
CCV	1.0	1458																								X		
CCB	1.0	1500																								X		
BASELINE	1.0	1502																								X		
ME3HD1A	1.0	1507																								X		
CRI	1.0	1509																								X		
CCV	1.0	1511																								X		
CCB	1.0	1513																								X		

USEPA-CLP

13-IN

ANALYSIS RUN LOG

ab Name: SVL Analytical, Inc. Contract: EP-W-08-068

ab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HD1

nstrument ID: Alpkem FS3000 Analysis Method: AS

tart Date: 11/16/2009 End Date: 11/16/2009

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1338																								X		
S5.0	1.0	1340																								X		
S10.0	1.0	1342																								X		
S50.0	1.0	1344																								X		
S100.0	1.0	1346																								X		
S200.0	1.0	1348																								X		
ICV	1.0	1350																								X		
ICB	1.0	1352																								X		
CRI	1.0	1354																								X		
CCV	1.0	1356																								X		
CCB	1.0	1358																								X		
MIDRANGE	1.0	1400																								X		
CCV	1.0	1402																								X		
CCB	1.0	1404																								X		
BASELINE	1.0	1406																								X		
ZZZZZZ	1.0	1408																										
ZZZZZZ	1.0	1410																										
ZZZZZZ	1.0	1412																										
ZZZZZZ	1.0	1414																										
ZZZZZZ	1.0	1416																										
ZZZZZZ	1.0	1418																										
ZZZZZZ	1.0	1420																										
CRI	1.0	1422																								X		
CCV	1.0	1424																								X		
CCB	1.0	1426																								X		
BASELINE	1.0	1428																								X		
ZZZZZZ	1.0	1430																										
ZZZZZZ	1.0	1432																										
ZZZZZZ	1.0	1434																										
PBS	1.0	1436																								X		
LCSS	1.0	1438																								X		
ME3HD1	1.0	1440																								X		
ME3HD1D	1.0	1442																								X		
ME3HD1S	1.0	1444																								X		
CRI	1.0	1446																								X		
CCV	1.0	1448																								X		
CCB	1.0	1450																								X		

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG No.: ME3HD1

Instrument ID: Cetac M7500 Analysis Method: CV

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	0901															X											
S0.2	1.0	0902															X											
S0.5	1.0	0904															X											
S1	1.0	0906															X											
S2	1.0	0907															X											
S5	1.0	0909															X											
S10	1.0	0911															X											
ICV	1.0	0912															X											
ICB	1.0	0914															X											
CRI	1.0	0916															X											
CCV	1.0	0917															X											
CCB	1.0	0919															X											
ZZZZZZ	1.0	0921																										
ZZZZZZ	1.0	0922																										
ZZZZZZ	1.0	0924																										
ZZZZZZ	1.0	0926																										
ZZZZZZ	1.0	0927																										
ZZZZZZ	1.0	0929																										
ZZZZZZ	1.0	0931																										
ZZZZZZ	1.0	0932																										
ZZZZZZ	1.0	0934																										
ZZZZZZ	1.0	0936																										
CCV	1.0	0937															X											
CCB	1.0	0939															X											
PBS	1.0	0941															X											
LCSS	1.0	0942															X											
ME3HD1	1.0	0944															X											
ME3HD1D	1.0	0945															X											
ME3HD1S	1.0	0947															X											
ME3HD2	1.0	0949															X											
CRI	1.0	0950															X											
CCV	1.0	0952															X											
CCB	1.0	0954															X											

USEPA-CLP

12-IN

PREPARATION LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Preparation Method: HS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/11/2009	1.00	100
ME3HD1	11/11/2009	1.00	100
ME3HD1D	11/11/2009	1.00	100
ME3HD1S	11/11/2009	1.00	100
ME3HD2	11/11/2009	1.00	100
PBS	11/11/2009	1.00	100

USEPA-CLP

12-IN

PREPARATION LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	11/10/2009		100
CCB	11/10/2009		100
CCB	11/10/2009		100
CCV	11/10/2009		100
CCV	11/10/2009		100
CCV	11/10/2009		100
CRI	11/10/2009		100
ICB	11/10/2009		100
ICV	11/10/2009		100
LCSS	11/10/2009	0.20	100
ME3HD1	11/10/2009	0.20	100
ME3HD1D	11/10/2009	0.20	100
ME3HD1S	11/10/2009	0.20	100
ME3HD2	11/10/2009	0.20	100
PBS	11/10/2009	0.20	100
S0	11/10/2009		100
S0.2	11/10/2009		100
S0.5	11/10/2009		100
S1	11/10/2009		100
S10	11/10/2009		100
S2	11/10/2009		100
S5	11/10/2009		100

USEPA-CLP

12-IN

PREPARATION LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	11/13/2009		50
LCSS	11/13/2009	1.00	50
ME3HD1	11/13/2009	1.00	50
ME3HD1D	11/13/2009	1.00	50
ME3HD1S	11/13/2009	1.00	50
ME3HD2	11/13/2009	1.00	50
MIDRANGE	11/13/2009		50
PBS	11/13/2009	1.00	50

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9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Instrument Type: P Instrument ID: OPTIMA5 Date: 01/06/2009

Preparation Method: HS2

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Aluminum	308.22	200	5.8
Antimony	206.84	60	4.0
Arsenic	188.98	10	3.1
Barium	233.53	200	0.16
Beryllium	313.11	5	0.031
Cadmium	226.50	5	0.29
Calcium	315.89	5000	5.9
Chromium	267.72	10	0.39
Cobalt	228.62	50	0.52
Copper	324.75	25	0.84
Iron	273.96	100	3.1
Lead	220.35	10	3.5
Magnesium	279.08	5000	5.7
Manganese	260.57	15	1.6
Nickel	232.00	40	1.1
Potassium	766.49	5000	14.0
Selenium	196.03	35	4.2
Silver	328.07	10	0.30
Sodium	589.59	5000	6.6
Thallium	190.80	25	4.8
Vanadium	292.40	50	0.13
Zinc	206.20	60	2.1

Comments:

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9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Instrument Type: P Instrument ID: OPTIMA5 Date: 01/06/2009

Preparation Method: HS2

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wave-Length /Mass	CRQL	MDL
Aluminum	308.22	20.00	0.58
Antimony	206.84	6.00	0.40
Arsenic	188.98	1.00	0.31
Barium	233.53	20.00	0.016
Beryllium	313.11	0.50	0.0031
Cadmium	226.50	0.50	0.029
Calcium	315.89	500.00	0.59
Chromium	267.72	1.00	0.039
Cobalt	228.62	5.00	0.052
Copper	324.75	2.50	0.084
Iron	273.96	10.00	0.31
Lead	220.35	1.00	0.35
Magnesium	279.08	500.00	0.57
Manganese	260.57	1.50	0.16
Nickel	232.00	4.00	0.11
Potassium	766.49	500.00	1.4
Selenium	196.03	3.50	0.42
Silver	328.07	1.00	0.030
Sodium	589.59	500.00	0.66
Thallium	190.80	2.50	0.48
Vanadium	292.40	5.00	0.013
Zinc	206.20	6.00	0.21

Comments:

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9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Instrument Type: P Instrument ID: OPTIMA5 Date: 01/05/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Aluminum	308.22	200	5.2
Antimony	206.84	60	2.1
Arsenic	188.98	10	4.3
Barium	233.53	200	1.6
Beryllium	313.11	5	0.052
Cadmium	226.50	5	0.26
Calcium	315.89	5000	3.8
Chromium	267.72	10	0.47
Cobalt	228.62	50	0.45
Copper	324.75	25	1.2
Iron	273.96	100	5.8
Lead	220.35	10	3.2
Magnesium	279.08	5000	7.6
Manganese	260.57	15	1.1
Nickel	232.00	40	0.56
Potassium	766.49	5000	16.0
Selenium	196.03	35	6.9
Silver	328.07	10	0.20
Sodium	589.59	5000	6.0
Thallium	190.80	25	3.4
Vanadium	292.40	50	0.13
Zinc	206.20	60	0.48

Comments:

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD1

Instrument Type: AS Instrument ID: Alpkem FS3000 Date: 12/29/2008

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wave-Length /Mass	CRQL	MDL
Cyanide	570.00	2.5	0.048

Comments: _____

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD1

Instrument Type: AS Instrument ID: Alpkem FS3000 Date: 12/29/2008

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Cyanide	570.00	10	1.5

Comments: _____

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9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD1

Instrument Type: AS Instrument ID: Alpkem FS3000 Date: 12/29/2008

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Cyanide	570.00	10	0.31

Comments: _____

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9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD1

Instrument Type: CV Instrument ID: Cetac M7500 Date: 01/06/2009

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wave-Length /Mass	CRQL	MDL
Mercury	253.70	0.10	0.022

Comments: _____

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD1

Instrument Type: CV Instrument ID: Cetac M7500 Date: 01/06/2009

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Mercury	253.70	0.20	0.043

Comments: _____

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ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME3HD1L

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	47516.07		45358.89		5		P
Antimony	8.41	J	300.00	U	100		P
Arsenic	16.71		50.00	U	100		P
Barium	626.14		628.05	J	0		P
Beryllium	2.29	J	2.03	J	11	E	P
Cadmium	5.00	U	25.00	U			P
Calcium	412811.03		412173.30		0		P
Chromium	113.58		115.13		1		P
Cobalt	42.39	J	42.10	J	1		P
Copper	329.03		272.22		17	E	P
Iron	88936.04		91601.13		3		P
Lead	210.94		221.73		5		P
Magnesium	251544.38		245623.80		2		P
Manganese	4093.34		4153.77		1		P
Nickel	103.97		107.66	J	4		P
Potassium	5531.22		5428.58	J	2		P
Selenium	35.00	U	47.90	J			P
Silver	10.00	U	50.00	U			P
Sodium	7383.08		6930.95	J	6		P
Thallium	25.00	U	125.00	U			P
Vanadium	166.29		164.10	J	1		P
Zinc	737.12		780.93		6		P

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6-IN

DUPLICATES

EPA SAMPLE NO.

ME3HD1D

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HD1

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 86.8 % Solids for Duplicate: 81.9

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		5474.2030		5740.1340		5		P
Antimony		0.9683	J	0.5011	J	64		P
Arsenic	1.1521	1.9252		1.8279		5		P
Barium	23.0415	72.1362		64.5595		11		P
Beryllium		0.2640	J	0.2187	J	19		P
Cadmium		0.5760	U	0.5760	U			P
Calcium		47558.8800		38965.4600		20		P
Chromium		13.0851		10.2797		24	*	P
Cobalt	5.7604	4.8834	J	6.0804		22		P
Copper		37.9067		51.7536		31	*	P
Iron		10246.0900		10455.6000		2		P
Lead		24.3019		21.3338		13		P
Magnesium		28979.7700		23712.1100		20		P
Manganese		471.5832		361.2014		27	*	P
Mercury		0.1152	U	0.1152	U			CV
Nickel	4.6083	11.9785		13.9103		15		P
Potassium		637.2368		558.4372	J	13		P
Selenium		4.0323	U	4.0323	U			P
Silver		1.1521	U	1.1521	U			P
Sodium	576.0369	850.5851		989.6490		15		P
Thallium		2.8802	U	2.8802	U			P
Vanadium	5.7604	19.1580		16.6125		14		P
Zinc		84.9222		55.4378		42	*	P
Cyanide		0.4646	J	0.1839	J	87		AS

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5B-IN

POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME3HD1A

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony		120.19		8.41	J	120.0	93		P
Selenium		44.44		35.00	U	70.0	63		P
Zinc		1893.21		737.12		1470.0	79		P
Cyanide		25.39		8.07	J	20.0	87		AS

Comments:

USEPA-CLP

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME3HD1S

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 86.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		6943.8860		5474.2030		0.00	0		P
Antimony	75 - 125	11.2803		0.9683	J	23.04	45	N	P
Arsenic	75 - 125	10.9192		1.9252		9.22	98		P
Barium	75 - 125	481.9263		72.1362		460.83	89		P
Beryllium	75 - 125	11.4374		0.2640	J	11.52	97		P
Cadmium	75 - 125	9.7503		0.5760	U	11.52	85		P
Calcium		52905.9800		47558.8800		0.00	0		P
Chromium	75 - 125	53.6279		13.0851		46.08	88		P
Cobalt	75 - 125	106.6032		4.8834	J	115.21	88		P
Copper	75 - 125	92.3092		37.9067		57.60	94		P
Iron		11553.9600		10246.0900		0.00	0		P
Lead		20.8625		24.3019		4.61	-75		P
Magnesium		32900.3900		28979.7700		0.00	0		P
Manganese		505.6205		471.5832		115.21	30		P
Mercury	75 - 125	0.4839		0.1152	U	0.58	83		CV
Nickel	75 - 125	124.7658		11.9785		115.21	98		P
Potassium		690.7985		637.2368		0.00	0		P
Selenium	75 - 125	5.5634		4.0323	U	11.52	48	N	P
Silver	75 - 125	12.5590		1.1521	U	11.52	109		P
Sodium		859.1515		850.5851		0.00	0		P
Thallium	75 - 125	10.0051		2.8802	U	11.52	87		P
Vanadium	75 - 125	128.6783		19.1580		115.21	95		P
Zinc	75 - 125	142.7856		84.9222		115.21	50	N	P
Cyanide	75 - 125	4.6784		0.4646	J	5.76	73	N	AS

Comments:

USEPA-CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

ICP-AES Instrument ID: OPTIMA5 ICS Source: 1206/0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Aluminum	244000	241000	245000	100	249000	103	246000	101	251000	104
Antimony	0	589	-7.0		592	101	-1.3		583	99
Arsenic	0	101	-0.033		94.6	94	-0.39		90.1	89
Barium	2.0	495	5.5	275	479	97	5.6	280	470	95
Beryllium	0	475	0.51		469	99	0.48		464	98
Cadmium	0	940	-2.7		918	98	-2.3		902	96
Calcium	235000	231000	239000	102	239000	103	234000	100	238000	103
Chromium	43	511	42.0	98	508	99	41.7	97	502	98
Cobalt	4.0	461	4.7	118	471	102	4.7	118	463	100
Copper	23	548	18.4	80	553	101	18.6	81	556	101
Iron	95600	94800	95800	100	97000	102	94600	99	95800	101
Lead	10	61	12.9	129	61.9	101	14.9	149	63.2	104
Magnesium	248000	251000	245000	99	249000	99	245000	99	248000	99
Manganese	19	502	15.3	81	471	94	15.3	81	471	94
Nickel	21	984	25.2	120	1030	105	26.0	124	1020	104
Potassium	0	0	14.9		20.2		10.7		23.9	
Selenium	0	53	-4.6		38.4	72	-2.1		42.5	80
Silver	0	206	0.93		206	100	0.81		205	100
Sodium	0	0	775		803		788		803	
Thallium	0	103	4.2		96.3	93	-1.2		100	97
Vanadium	0	494	-1.3		474	96	-1.3		471	95
Zinc	28	1030	28.8	103	940	91	28.8	103	911	88

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Cyanide			10.000	U	10.000	U	0.334	J			AS

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Cyanide	10.000	U	10.000	U	10.000	U	10.000	U	0.135	J	AS

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.100	U	CV

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3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	200.000	U	7.253	J	200.000	U	200.000	U	20.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	-2.280	J	6.000	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	-0.913	J	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	-0.087	J	P
Beryllium	0.056	J	0.185	J	0.201	J	0.141	J	0.500	U	P
Cadmium	5.000	U	5.000	U	5.000	U	5.000	U	-0.069	J	P
Calcium	5000.000	U	5.538	J	5.451	J	5000.000	U	500.000	U	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	0.089	J	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	-0.221	J	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Iron	-6.634	J	100.000	U	11.156	J	10.713	J	10.000	U	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	0.5	J	P
Magnesium	5000.000	U	9.769	J	5000.000	U	9.114	J	500.000	U	P
Manganese	15.000	U	15.000	U	15.000	U	15.000	U	1.500	U	P
Nickel	40.000	U	40.000	U	40.000	U	0.602	J	-0.440	J	P
Potassium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	2.089	J	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	-2.828	J	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Sodium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Thallium	25.000	U	25.000	U	25.000	U	25.000	U	-0.901	J	P
Vanadium	50.000	U	-0.190	J	-0.172	J	50.000	U	-0.045	J	P
Zinc	60.000	U	60.000	U	1.043	J	0.512	J	6.000	U	P

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1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME3HD2

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Matrix (soil/water): SOIL Lab Sample ID: ME3HD2

Level (low/med): LOW Date Received: 11/05/2009

% Solids: 81.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12100			P
7440-36-0	Antimony	7.4	U	N	P
7440-38-2	Arsenic	5.2			P
7440-39-3	Barium	98.0			P
7440-41-7	Beryllium	0.55	J	E	P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	8950			P
7440-47-3	Chromium	17.3		*	P
7440-48-4	Cobalt	7.9			P
7440-50-8	Copper	16.5		*E	P
7439-89-6	Iron	17900			P
7439-92-1	Lead	16.8			P
7439-95-4	Magnesium	6800			P
7439-96-5	Manganese	623		*	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	16.8			P
7440-09-7	Potassium	931			P
7782-49-2	Selenium	4.3	U	N	P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	374	J		P
7440-28-0	Thallium	3.1	U		P
7440-62-2	Vanadium	30.6			P
7440-66-6	Zinc	41.4		N*	P
57-12-5	Cyanide	0.3	J	N	AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: Y

Comments: PLANT MATTER

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME3HD1

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HD1

Matrix (soil/water): SOIL Lab Sample ID: ME3HD1

Level (low/med): LOW Date Received: 11/05/2009

% Solids: 86.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5470			P
7440-36-0	Antimony	0.97	J	N	P
7440-38-2	Arsenic	1.9			P
7440-39-3	Barium	72.1			P
7440-41-7	Beryllium	0.26	J	E	P
7440-43-9	Cadmium	0.58	U		P
7440-70-2	Calcium	47600			P
7440-47-3	Chromium	13.1		*	P
7440-48-4	Cobalt	4.9	J		P
7440-50-8	Copper	37.9		*E	P
7439-89-6	Iron	10200			P
7439-92-1	Lead	24.3			P
7439-95-4	Magnesium	29000			P
7439-96-5	Manganese	472		*	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	12.0			P
7440-09-7	Potassium	637			P
7782-49-2	Selenium	4.0	U	N	P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	851			P
7440-28-0	Thallium	2.9	U		P
7440-62-2	Vanadium	19.2			P
7440-66-6	Zinc	84.9		N*	P
57-12-5	Cyanide	0.5	J	N	AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: Y

Comments: PLANT MATTER

USEPA-CLP

NOV 1 8 2009

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COVER PAGE

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No: 39181 NRAS No.: SDG No: ME3HD1

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME3HD1	ME3HD1
ME3HD1D	ME3HD1D
ME3HD1S	ME3HD1S
ME3HD2	ME3HD2

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	NO
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	NO
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	NO

Comments: THE ICP-AES SERIAL DILUTION RESULT FOR BERYLLIUM AND COPPER FAILED THE PERCENT DIFFERENCE CRITERIA, AND THE RESULTS FOR BERYLLIUM AND COPPER ON ALL FORM 1A-IN AND FORM VIII-IN REPORTS ARE FLAGGED WITH AN "E" QUALIFIER.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Kirby L. Gray Name: KIRBY L. GRAY

Date: 11/16/2009 Title: TECHNICAL DIRECTOR

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Ryan,

We received samples on 11/05/2009 for Case 39181 that did not have a sample designated for Lab QC. We would like to use sample ME3HD1 as Lab QC for SDG ME3HD1.

Thanks,

Kirby Gray
Technical Director
SVL Analytical, Inc.
Ph:(208)784-1258
Fax:(208)783-0891

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Kirby Gray

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Monday, November 09, 2009 06:51
To: Blake Johnson; Crystal Sevy; Kirby Gray
Cc: Krahling, John H - DNR; Carlene Thomas; Howard Pham; Warren Layne
Subject: Region 05 | Case 39181 | Lab SVL | SDG ME3HD1 | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Kirby,

Summary Start
Issue: The TR/COC does not designate a sample as laboratory QC for SDG ME3HD1; however, per Scheduling laboratory QC is required. The laboratory would like to select sample ME3HD1 as laboratory QC for SDG ME3HD1.
Resolution: In accordance with previous direction from Region 5, the laboratory will select a sample for laboratory QC as long as the sample is not a PE, blank, or rinsate sample. The laboratory will note the issue in the SDG Narrative, notify the SMO coordinator of the sample selected for laboratory QC, and proceed with the analysis of the samples. If the laboratory is not sure that the sample they selected is not a PE, blank, or rinsate sample, they will contact SMO and wait for a resolution from the Region.

SMO will note the selection of sample ME3HD1 as laboratory QC for SDG ME3HD1.
Summary End

Please let me know if you have any additional questions.

Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Kirby Gray [mailto:kirbyg@svl.net]
Sent: Friday, November 06, 2009 7:40 PM
To: Mroz, Ryan
Subject: Region 5 | Case 39181 | Lab SVL | SDG ME3HD1 | Lab QC sample |

SDG NARRATIVE

LAB NAME: SVL ANALYTICAL, INC.
LAB CODE: SVL
CONTRACT NO.: EP-W-08-068

CASE: 39181
SDG: ME3HD1

MERCURY EXAMPLE CALCULATION: ME3HD1S

CONCENTRATION (DRY WT.) (MG/KG) = $\frac{C \times V}{W \times S} \times DF$

C = CONCENTRATION (ug/L)
V = FINAL SAMPLE VOLUME IN LITERS (L)
W = WET SAMPLE WEIGHT (g)
S = % SOLIDS/100
DF = DILUTION FACTOR

$$\frac{0.84 \text{ ug/L} \times 0.1 \text{ L}}{0.2 \text{ g} \times 86.8/100} \times 1 = 0.4839 \text{ mg/kg}$$

CYANIDE EXAMPLE CALCULATION: ME3HD1

$$\frac{8.065274 \text{ ug/L} \times 0.05 \text{ L}}{1.0 \text{ g} \times 86.8/100} \times 1 = 0.5 \text{ mg/kg}$$

SDG NARRATIVE

LAB NAME: SVL ANALYTICAL, INC.
LAB CODE: SVL
CONTRACT NO.: EP-W-08-068

CASE: 39181
SDG: ME3HD1

SAMPLES RECEIVED FOR ICP-AES, MERCURY AND CYANIDE ON NOVEMBER 5, 2009.
SAMPLE TAGS WERE PRESENT.
COOLER TEMPERATURE INDICATOR BOTTLE WAS PRESENT.

ISSUE: THE TR/COC DOES NOT DESIGNATE A SAMPLE AS LABORATORY QC FOR SDG ME3HD1; HOWEVER, PER SCHEDULING LABORATORY QC IS REQUIRED. THE LABORATORY WOULD LIKE TO SELECT SAMPLE ME3HD1 AS LABORATORY QC FOR SDG ME3HD1.

RESOLUTION: IN ACCORDANCE WITH PREVIOUS DIRECTION FROM REGION 5, THE LABORATORY WILL SELECT A SAMPLE FOR LABORATORY QC AS LONG AS THE SAMPLE IS NOT A PE, BLANK, OR RINSATE SAMPLE. THE LABORATORY WILL NOTE THE ISSUE IN THE SDG NARRATIVE, NOTIFY THE SMO COORDINATOR OF THE SAMPLE SELECTED FOR LABORATORY QC, AND PROCEED WITH THE ANALYSIS OF THE SAMPLES. IF THE LABORATORY IS NOT SURE THAT THE SAMPLE THEY SELECTED IS NOT A PE, BLANK, OR RINSATE SAMPLE, THEY WILL CONTACT SMO AND WAIT FOR A RESOLUTION FROM THE REGION.

SMO WILL NOTE THE SELECTION OF SAMPLE ME3HD1 AS LABORATORY QC FOR SDG ME3HD1.

AN "E" FLAG WAS REQUIRED FOR BERYLLIUM AND COPPER ON FORMS 1A AND 8. AN "E" FLAG REPRESENTS THAT THE PERCENT DIFFERENCE OF THE SERIAL DILUTION IS GREATER THAN 10% AND THE ORIGINAL SAMPLE CONCENTRATION (REPORTED ON FORM 1) IS GREATER THAN 50X THE MDL.

AN "N" FLAG WAS DESIGNATED ON FORMS 1 AND 5A FOR ANTIMONY, SELENIUM, ZINC AND CYANIDE. AN "N" FLAG REPRESENTS THAT THE PERCENT SPIKE RECOVERY WAS OUT OF THE CONTROL LIMITS OF 75-125%. POST DIGESTS SPIKE WERE ANALYZED.

CHROMIUM, COPPER, MANGANESE, AND ZINC ARE FLAGGED WITH AN "*" ON FORMS 1 AND 6. AN "*" REPRESENTS THAT THE DUPLICATE IS OUT OF CONTROL.

<u>ICP-AES EXAMPLE CALCULATION:</u> ME3HD1 LEAD

$$\text{CONCENTRATION (DRY WT.) (MG/KG)} = \frac{C \times V}{W \times S} \times DF$$

C = CONCENTRATION (mg/L)
V = FINAL SAMPLE VOLUME IN LITERS (L)
W = WET SAMPLE WEIGHT (kg)
S = % SOLIDS/100
DF = DILUTION FACTOR

$$\frac{0.210941 \text{ mg/L} \times 0.1 \text{ L}}{0.001 \text{ kg} \times 86.8/100} \times 1 = 24.3 \text{ mg/kg}$$

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

W9K0122
CF 11/6/09 ~~W9K0112~~

Case No: 39181
DAS No:
SDG No: ME3HD1 **L**

Date Shipped:	11/4/09
Carrier Name:	FedEx
Airbill:	846761795287
Shipped to:	SVL Analytical, Inc. One Government Gulch Kellogg ID 83837 (208) 784-1258

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Mark Drews	11/4/09 1526	[signature]	11-4-09 15:30
2 [signature]	11-4-09 15:30	C Flores	11/05/2009 13:10
3			
4			

Sampler Signature: Mark Drews

For Lab Use Only

Lab Contract No:	11/05/2009 ~~ME~~ EPW-08068
Unit Price:	244.00
Transfer To:	
Lab Contract No:	
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME3HD1	Soil/ Mark Drews	L/G	ICP-AES (14)	5C-093042 (1)	SS-6	S: 11/4/09	9:15	E3HD1	
ME3HD2	Soil/ Mark Drews	L/G	ICP-AES (14)	5C-093048 (1)	SS-7	S: 11/4/09	10:15	E3HD2	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.0°C	Chain of Custody Seal Number: 138391/138392
Analysis Key: ICP-AES = ICP-AES (Metals, Mercury, Cyanide)	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

TR Number: 5-004435316-110409-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

LABORATORY COPY

Analytical Results (Qualified Data)

Case #: 39181 SDG : ME3HD1
Site : HARTLAND WELL #3
Lab. : SVL
Reviewer : D. CONNET
Date : 1/28/2010

Number of Soil Samples : 2
Number of Water Samples : 0

Sample Number :	ME3HD1		ME3HD2							
Sampling Location :	SS-6		SS-7							
Matrix :	Soil		Soil							
Units :	mg/Kg		mg/Kg							
Date Sampled :	11/4/2009		11/4/2009							
Time Sampled :										
%Solids :	86.8		81.0							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5470		12100							
ANTIMONY	0.97	J-	7.4	UJ						
ARSENIC	1.9	J-	5.2	J-						
BARIUM	72.1		98.0							
BERYLLIUM	0.58	UJ	0.62	UJ						
CADMIUM	0.58	UJ	0.62	R						
CALCIUM	47600		8950							
CHROMIUM	13.1		17.3							
COBALT	4.9	J	7.9							
COPPER	37.9	J	16.5	J						
IRON	10200		17900							
LEAD	24.3		16.8							
MAGNESIUM	29000		6800							
MANGANESE	472		623							
MERCURY	0.12	U	0.12	U						
NICKEL	12.0		16.8							
POTASSIUM	637		931							
SELENIUM	4.0	UJ	4.3	UJ						
SILVER	1.2	U	1.2	U						
SODIUM	851		374	J						
THALLIUM	2.9	U	3.1	U						
VANADIUM	19.2		30.6							
ZINC	84.9	J	41.4	J						
CYANIDE	2.9	UJ	3.1	UJ						

ESAT Controlled Number: ESAT5.17.01010 - pj 3 FEB 10

DATE: February 3, 2010

Wisconsin Department of Natural Resources
ATTN: **Mr. John Krahling**
Bureau of Solids Waste Mgmt. GEF-2
101 South Webster Street (RR/3)
Madison, WI 53707-7921

SITE NAME: Hartland Well #3 (WI)

Case	Lab	Samples	SDG	Matrix
39181	SVL Analytical	2	ME3HD1	soil

Analysis: metals and cyanide

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Chicago Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat A. Joyner
Data Coordinator
ESAT Region 5 - **Techlaw Inc.**

Controlled Document

ESAT5.15.00406

QCH
2-2-10

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/28/10

SUBJECT: Review of Data
Received for review on 11/18/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data by CADRE for the following case:

SITE NAME: Hartland Well #3 (WI)

CASE NUMBER: 39181 **SDG NUMBER:** ME3HD1

Number and Type of Samples: 2 soils

Sample Numbers: ME3HD1-D2

Laboratory: SVL Analytical, Inc **Hrs. for Review:** 4.0 + 0.5 BR 2/1/10

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Two (2) soil samples, numbered ME3HD1-D2, were collected on November 4, 2009. The lab received the samples on November 5, 2009, in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

The CRQL value for cyanide on Form 9-IN was incorrectly reported as 10 ug/L. The correct value should be reported as 50 ug/L.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Beryllium
ME3HD1, ME3HD2

Cyanide
ME3HD1, ME3HD2

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Arsenic
ME3HD1, ME3HD2

No samples were identified as field blanks.

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
ME3HD1, ME3HD2

Zinc
ME3HD1, ME3HD2

Cyanide
ME3HD1, ME3HD2

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%.
Hits are qualified "J-" and non-detects are qualified "UJ".

Selenium
ME3HD1, ME3HD2

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria. Region 5 uses 35%RPD control criteria for soil samples.
Hits are qualified "J" and non-detects are qualified "UJ".

Zinc
ME3HD1, ME3HD2

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.
Hits are qualified "J" and non-detects are qualified "UJ".

Beryllium
ME3HD1, ME3HD2

Copper
ME3HD1, ME3HD2

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.
Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Antimony
ME3HD1, ME3HD2

Cadmium
ME3HD1, ME3HD2

The following inorganic samples are associated with negative sample results whose absolute values are greater than the CRQL, indicating interference.
Non-detects are qualified "R".

Cadmium
ME3HD2

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Antimony
ME3HD1

Cobalt
ME3HD1

Sodium
ME3HD2

All data, except those qualified above, are acceptable.

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

ESAT Controlled Number: ESAT5.17.01015-pj 8 FEB 10

DATE: February 8, 2010

Wisconsin Department of Natural Resources
ATTN: **Mr. John Krahling**
Bureau of Solids Waste Mgmt. GEF-2
101 South Webster Street (RR/3)
Madison, WI 53707-7921

SITE NAME: Hartland Well #3 (WI)

Case	Lab	Samples	SDG	Matrix
39181	SVL Analytical	6	ME3HC6	soil

Analysis: metals and cyanide

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Chicago Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat A. Joyner
Data Coordinator
ESAT Region 5 - **Techlaw Inc.**

Controlled Document

ESAT5.15.00409
ACH
2-3-10

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/29/10

SUBJECT: Review of Data
Received for review on 11/20/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data by CADRE for the following case:

SITE NAME: Hartland Well #3 (WI)

CASE NUMBER: 39181 **SDG NUMBER:** ~~ME3HD1~~ ME3HC6 pg 2/8/10

Number and Type of Samples: 6 soils

Sample Numbers: ME3HC6-C9, D0, D3

Laboratory: SVL Analytical, Inc **Hrs. for Review:** 5.5 +1.0

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Six (6) soil samples, numbered ME3HC6-C9, D0, D3, were collected on November 2-3, 2009. The lab received the samples on November 4, 2009, in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

The CRQL value for cyanide on Form 9-IN was incorrectly reported as 10 ug/L. The correct value should be reported as 50 ug/L.

1. HOLDING TIME:

The following inorganic samples did not meet primary holding time criteria.
Hits are qualified "J-" and non-detects are qualified "UJ".

Cyanide
ME3HC6

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.
Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.
Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Antimony
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Beryllium
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.
Hits less than 5 times the blank are qualified "J-".

Arsenic
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Cyanide
ME3HC8, ME3HC9, ME3HD0, ME3HD3

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL. The samples are also associated with a positive ICSA (see below).
Hits less than 5 times the blank AND less than 10 times the ICSA are qualified "J".

Cadmium
ME3HC6

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Selenium

ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria. Region 5 uses 35%RPD control criteria for soil samples.

Hits are qualified "J" and non-detects are qualified "UJ".

Lead

ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Manganese

ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Aluminum

ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Barium

ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Calcium

ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Cobalt

ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Iron

ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Lead
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Magnesium
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Manganese
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Nickel
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Potassium
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Zinc
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

The following results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA. The samples are also associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the MDL (see above).

Hits less than 10 times the absolute value of the ICSA AND less than 5 times the blank value are qualified "J".

Cadmium
ME3HC6

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Antimony
ME3HC6, ME3HC8, ME3HC9, ME3HD0, ME3HD3

The following inorganic sample is associated with a negative sample result whose absolute value is greater than the CRQL, indicating interference. Dilution performed for other elements were no longer greater than the CRQL. An undiluted result would have been considered rejected "R"; reported result was changed to the diluted value by this reviewer. The detection limit for the reported result is elevated.

Non-detects are qualified "U".

Selenium
ME3HC6

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Cadmium
ME3HC6

Cobalt
ME3HC6

Mercury
ME3HC7, ME3HC8, ME3HC9

Potassium
ME3HC6, ME3HC8

Sodium
ME3HC6, ME3HC7, ME3HC8, ME3HC9, ME3HD0, ME3HD3

Cyanide
ME3HC6, ME3HC8, ME3HC9, ME3HD0, ME3HD3

All data, except those qualified above, are acceptable.

SDG NARRATIVE

LAB NAME: SVL ANALYTICAL, INC.
LAB CODE: SVL
CONTRACT NO.: EP-W-08-068

CASE: 39181
SDG: ME3HC6

SAMPLES RECEIVED FOR ICP-AES, MERCURY AND CYANIDE ON NOVEMBER 4, 2009.
SAMPLE TAGS WERE PRESENT.
COOLER TEMPERATURE INDICATOR BOTTLE WAS PRESENT.

AN "E" FLAG WAS REQUIRED FOR ALUMINUM, BARIUM, CALCIUM, COBALT, IRON, LEAD, MAGNESIUM, MANGANESE, NICKEL, POTASSIUM, AND ZINC ON FORMS 1A AND 8. AN "E" FLAG REPRESENTS THAT THE PERCENT DIFFERENCE OF THE SERIAL DILUTION IS GREATER THAN 10% AND THE ORIGINAL SAMPLE CONCENTRATION (REPORTED ON FORM 1) IS GREATER THAN 50X THE MDL.

AN "N" FLAG WAS DESIGNATED ON FORMS 1 AND 5A FOR ANTIMONY AND SELENIUM. AN "N" FLAG REPRESENTS THAT THE PERCENT SPIKE RECOVERY WAS OUT OF THE CONTROL LIMITS OF 75-125%. POST DIGEST SPIKE WAS ANALYZED.

LEAD IS FLAGGED WITH AN "*" ON FORMS 1 AND 6. AN "*" REPRESENTS THAT THE DUPLICATE IS OUT OF CONTROL.

A "D" FLAG INDICATES DILUTION WAS REQUIRED.

THE HOLDING TIME FOR CYANIDE WAS EXCEEDED BY ONE DAY.

ICP-AES EXAMPLE CALCULATION: ME3HC6 LEAD

$$\text{CONCENTRATION (DRY WT.) (MG/KG)} = \frac{C \times V}{W \times S} \times DF$$

C = CONCENTRATION (mg/L)
V = FINAL SAMPLE VOLUME IN LITERS (L)
W = WET SAMPLE WEIGHT (kg)
S = % SOLIDS/100
DF = DILUTION FACTOR

$$\frac{0.107092 \text{ mg/L} \times 0.1 \text{ L}}{0.001 \text{ kg} \times 92.0/100} \times 1 = 11.6 \text{ mg/kg}$$

MERCURY EXAMPLE CALCULATION: ME3HC7

$$\text{CONCENTRATION (DRY WT.) (MG/KG)} = \frac{C \times V}{W \times S} \times DF$$

C = CONCENTRATION (ug/L)
V = FINAL SAMPLE VOLUME IN LITERS (L)
W = WET SAMPLE WEIGHT (g)
S = % SOLIDS/100
DF = DILUTION FACTOR

$$\frac{0.07 \text{ ug/L} \times 0.1 \text{ L}}{0.2 \text{ g} \times 76.3/100} \times 1 = 0.046 \text{ mg/kg}$$

SDG NARRATIVE

LAB NAME: SVL ANALYTICAL, INC.
LAB CODE: SVL
CONTRACT NO.: EP-W-08-068

CASE: 39181
SDG: ME3HC6

CYANIDE EXAMPLE CALCULATION: ME3HC8

$$\text{CONCENTRATION (DRY WT.) (MG/KG)} = \frac{C \times V}{W \times S} \times DF$$

C = CONCENTRATION (ug/L)
V = FINAL SAMPLE VOLUME IN LITERS (L)
W = WET SAMPLE WEIGHT (g)
S = % SOLIDS/100
DF = DILUTION FACTOR

$$\frac{4.406671 \text{ ug/L} \times 0.05 \text{ L}}{1.0 \text{ g} \times 77.3/100} \times 1 = 0.3 \text{ mg/kg}$$

USEPA-CLP

NOV 2 0 2009

COVER PAGE

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No: 39181 NRAS No.: SDG No: ME3HC6

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME3HC6	ME3HC6
ME3HC7	ME3HC7
ME3HC8	ME3HC8
ME3HC9	ME3HC9
ME3HC9D	ME3HC9D
ME3HC9S	ME3HC9S
ME3HD0	ME3HD0
ME3HD3	ME3HD3

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	NO
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	NO
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	NO

Comments: THE ICP-AES SERIAL DILUTION RESULT FOR ALUMINUM, BARIUM, CALCIUM, COBALT, IRON, LEAD, MAGNESIUM, MANGANESE, NICKEL, POTASSIUM, AND ZINC FAILED THE PERCENT DIFFERENCE CRITERIA, AND THEIR RESULTS ON ALL FORM 1A-IN AND FORM VIII-IN REPORTS ARE FLAGGED WITH AN "E" QUALIFIER.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Kirby L. Gray Name: KIRBY L. GRAY

Date: 11/17/2009 Title: TECHNICAL DIRECTOR

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

9

EPA SAMPLE NO.

ME3HC6

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Matrix (soil/water): SOIL Lab Sample ID: ME3HC6

Level (low/med): LOW Date Received: 11/04/2009

% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3490		E	P
7440-36-0	Antimony	1.5	J	N	P
7440-38-2	Arsenic	2.7			P
7440-39-3	Barium	31.3		E	P
7440-41-7	Beryllium	0.14	J		P
7440-43-9	Cadmium	0.35	J		P
7440-70-2	Calcium	116000		ED	P
7440-47-3	Chromium	11.5			P
7440-48-4	Cobalt	3.4	J	E	P
7440-50-8	Copper	20.1			P
7439-89-6	Iron	9590		E	P
7439-92-1	Lead	11.6		*E	P
7439-95-4	Magnesium	69100		ED	P
7439-96-5	Manganese	367		E	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	10.0		E	P
7440-09-7	Potassium	421	J	E	P
7782-49-2	Selenium	3.8	U	N	P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	167	J		P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	13.0			P
7440-66-6	Zinc	47.4		E	P
57-12-5	Cyanide	1.9	J		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: Y

Comments: PLANT MATTER

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME3HC7

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Matrix (soil/water): SOIL Lab Sample ID: ME3HC7

Level (low/med): LOW Date Received: 11/04/2009

% Solids: 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6750		E	P
7440-36-0	Antimony	1.2	J	N	P
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	99.9		E	P
7440-41-7	Beryllium	0.41	J		P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	17700		E	P
7440-47-3	Chromium	10.9			P
7440-48-4	Cobalt	6.8		E	P
7440-50-8	Copper	12.7			P
7439-89-6	Iron	12000		E	P
7439-92-1	Lead	16.5		*E	P
7439-95-4	Magnesium	11300		E	P
7439-96-5	Manganese	816		E	P
7439-97-6	Mercury	0.046	J		CV
7440-02-0	Nickel	10.2		E	P
7440-09-7	Potassium	810		E	P
7782-49-2	Selenium	4.6	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	44.7	J		P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	20.7			P
7440-66-6	Zinc	38.5		E	P
57-12-5	Cyanide	3.3	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: Y

Comments: PLANT MATTER

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME3HC8

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Matrix (soil/water): SOIL Lab Sample ID: ME3HC8

Level (low/med): LOW Date Received: 11/04/2009

% Solids: 77.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7370		E	P
7440-36-0	Antimony	1.3	J	N	P
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	97.4		E	P
7440-41-7	Beryllium	0.45	J		P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	15600		E	P
7440-47-3	Chromium	12.0			P
7440-48-4	Cobalt	6.8		E	P
7440-50-8	Copper	11.2			P
7439-89-6	Iron	13100		E	P
7439-92-1	Lead	14.4		*E	P
7439-95-4	Magnesium	10100		E	P
7439-96-5	Manganese	771		E	P
7439-97-6	Mercury	0.039	J		CV
7440-02-0	Nickel	11.4		E	P
7440-09-7	Potassium	641	J	E	P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	43.3	J		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	22.5			P
7440-66-6	Zinc	38.8		E	P
57-12-5	Cyanide	0.3	J		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: Y

Comments: PLANT MATTER

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

12

EPA SAMPLE NO.

ME3HC9

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Matrix (soil/water): SOIL Lab Sample ID: ME3HC9

Level (low/med): LOW Date Received: 11/04/2009

% Solids: 77.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8740		E	P
7440-36-0	Antimony	0.98	J	N	P
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	101		E	P
7440-41-7	Beryllium	0.53	J		P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	4560		E	P
7440-47-3	Chromium	15.1			P
7440-48-4	Cobalt	8.8		E	P
7440-50-8	Copper	13.5			P
7439-89-6	Iron	16500		E	P
7439-92-1	Lead	25.4		*E	P
7439-95-4	Magnesium	3660		E	P
7439-96-5	Manganese	822		E	P
7439-97-6	Mercury	0.039	J		CV
7440-02-0	Nickel	12.8		E	P
7440-09-7	Potassium	782		E	P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	30.0	J		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	27.2			P
7440-66-6	Zinc	41.3		E	P
57-12-5	Cyanide	0.4	J		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: Y

Comments: PLANT MATTER

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME3HD0

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Matrix (soil/water): SOIL Lab Sample ID: ME3HD0

Level (low/med): LOW Date Received: 11/04/2009

% Solids: 75.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7820		E	P
7440-36-0	Antimony	1.3	J	N	P
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	94.2		E	P
7440-41-7	Beryllium	0.45	J		P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	28400		E	P
7440-47-3	Chromium	11.8			P
7440-48-4	Cobalt	7.6		E	P
7440-50-8	Copper	11.8			P
7439-89-6	Iron	13300		E	P
7439-92-1	Lead	14.8		*E	P
7439-95-4	Magnesium	18300		E	P
7439-96-5	Manganese	815		E	P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	11.5		E	P
7440-09-7	Potassium	870		E	P
7782-49-2	Selenium	4.6	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	59.8	J		P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	24.0			P
7440-66-6	Zinc	37.3		E	P
57-12-5	Cyanide	0.4	J		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: Y

Comments: PLANT MATTER

USEPA-CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME3HD3

ab Name: SVL Analytical, Inc. Contract: EP-W-08-068

ab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

atrix (soil/water): SOIL Lab Sample ID: ME3HD3

evel (low/med): LOW Date Received: 11/04/2009

Solids: 81.5

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7860		E	P
7440-36-0	Antimony	1.3	J	N	P
7440-38-2	Arsenic	3.5			P
7440-39-3	Barium	106		E	P
7440-41-7	Beryllium	0.44	J		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	20000		E	P
7440-47-3	Chromium	11.9			P
7440-48-4	Cobalt	7.9		E	P
7440-50-8	Copper	11.8			P
7439-89-6	Iron	13200		E	P
7439-92-1	Lead	14.4		*E	P
7439-95-4	Magnesium	13000		E	P
7439-96-5	Manganese	1010		E	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	12.2		E	P
7440-09-7	Potassium	837		E	P
7782-49-2	Selenium	4.3	U	N	P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	46.6	J		P
7440-28-0	Thallium	3.1	U		P
7440-62-2	Vanadium	23.5			P
7440-66-6	Zinc	37.2		E	P
57-12-5	Cyanide	0.3	J		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: Y

Comments: PLANT MATTER

USEPA-CLP

3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	200.000	U	200.000	U	200.000	U	200.000	U	-1.335	J	P
Antimony	2.871	J	2.905	J	2.937	J	60.000	U	0.430	J	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	-0.932	J	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	-0.066	J	P
Beryllium	0.068	J	0.177	J	0.252	J	0.173	J	0.500	U	P
Cadmium	5.000	U	5.000	U	5.000	U	5.000	U	-0.068	J	P
Calcium	-9.571	J	-7.439	J	-7.061	J	-10.529	J	500.000	U	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	0.075	J	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	-0.176	J	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Iron	-9.165	J	100.000	U	100.000	U	100.000	U	-0.837	J	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	0.5	J	P
Magnesium	-15.730	J	-9.067	J	5000.000	U	-16.093	J	-1.939	J	P
Manganese	15.000	U	15.000	U	15.000	U	15.000	U	1.500	U	P
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	-0.440	J	P
Potassium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	-2.048	J	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Sodium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Thallium	25.000	U	25.000	U	25.000	U	25.000	U	-0.635	J	P
Vanadium	50.000	U	50.000	U	0.242	J	0.168	J	-0.016	J	P
Zinc	-0.593	J	0.864	J	1.259	J	60.000	U	0.249	J	P

USEPA-CLP

3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.000	U							P
Antimony			60.000	U							P
Arsenic			10.000	U							P
Barium			200.000	U							P
Beryllium			0.158	J							P
Cadmium			5.000	U							P
Calcium			-7.277	J							P
Chromium			10.000	U							P
Cobalt			50.000	U							P
Copper			25.000	U							P
Iron			100.000	U							P
Lead			10.000	U							P
Magnesium			-13.247	J							P
Manganese			15.000	U							P
Nickel			40.000	U							P
Potassium			5000.000	U							P
Selenium			35.000	U							P
Silver			10.000	U							P
Sodium			5000.000	U							P
Thallium			25.000	U							P
Vanadium			50.000	U							P
Zinc			0.576	J							P

USEPA-CLP

3-IN
BLANKS

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	9.402	J	9.913	J	8.745	J					P
Antimony	2.438	J	3.276	J	2.472	J					P
Arsenic	10.000	U	10.000	U	10.000	U					P
Barium	200.000	U	200.000	U	200.000	U					P
Beryllium	-0.088	J	0.140	J	5.000	U					P
Cadmium	5.000	U	0.339	J	5.000	U					P
Calcium	5000.000	U	5000.000	U	5000.000	U					P
Chromium	10.000	U	10.000	U	10.000	U					P
Cobalt	50.000	U	50.000	U	50.000	U					P
Copper	25.000	U	25.000	U	25.000	U					P
Iron	-9.228	J	-5.931	J	100.000	U					P
Lead	10.000	U	10.000	U	10.000	U					P
Magnesium	5000.000	U	5000.000	U	5000.000	U					P
Manganese	15.000	U	15.000	U	15.000	U					P
Nickel	0.793	J	1.061	J	1.088	J					P
Potassium	5000.000	U	5000.000	U	5000.000	U					P
Selenium	35.000	U	35.000	U	35.000	U					P
Silver	10.000	U	10.000	U	10.000	U					P
Sodium	5000.000	U	5000.000	U	5000.000	U					P
Thallium	25.000	U	25.000	U	25.000	U					P
Vanadium	50.000	U	50.000	U	50.000	U					P
Zinc	-1.403	J	-0.559	J	-0.499	J					P

3-IN
BLANKS

ab Name: SVL Analytical, Inc. Contract: EP-W-08-068

ab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

reparation Blank Matrix (soil/water): SOIL

reparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	200.000	U	200.000	U	200.000	U					P
Calcium	5000.000	U	4.520	J	5.091	J					P
Iron	100.000	U	100.000	U	8.960	J					P
Magnesium	5000.000	U	12.005	J	12.278	J					P

3-IN
BLANKS

ab Name: SVL Analytical, Inc. Contract: EP-W-08-068

ab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

reparation Blank Matrix (soil/water): SOIL

reparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.100	U	CV

3-IN
BLANKS

b Name: SVL Analytical, Inc. Contract: EP-W-08-068

b Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

eparation Blank Matrix (soil/water): SOIL

eparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cyanide	-2.451	J	-2.441	J	-2.340	J	-2.378	J	2.500	U	AS

3-IN
BLANKS

ab Name: SVL Analytical, Inc. Contract: EP-W-08-068

ab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

'reparation Blank Matrix (soil/water): SOIL

'reparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cyanide			-2.260	J	-2.476	J					AS

USEPA-CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

b Name: SVL Analytical, Inc. Contract: EP-W-08-068

b Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

P-AES Instrument ID: OPTIMA5 ICS Source: 1206/0203

ncentration Units: ug/L

	True		Initial Found				Final Found			
nalyte	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
luminum	244000	241000	248000	102	252000	105	246000	101	250000	104
ntimony	0	589	-1.5		617	105	-0.71		615	104
rsenic	0	101	-6.6		96.0	95	-2.1		91.4	90
arium	2.0	495	6.0	300	499	101	6.0	300	498	101
eryllium	0	475	0.60		508	107	0.56		504	106
Cadmium	0	940	0.82		952	101	1.0		951	101
Calcium	235000	231000	242000	103	247000	107	240000	102	244000	106
Chromium	43	511	43.2	100	527	103	42.9	100	527	103
Cobalt	4.0	461	5.4	135	477	103	5.2	130	477	103
Copper	23	548	19.0	83	569	104	18.8	82	564	103
Iron	95600	94800	95000	99	96500	102	94400	99	96700	102
Lead	10	61	14.6	146	67.0	110	15.3	153	65.2	107
Magnesium	248000	251000	254000	102	258000	103	252000	102	257000	102
Manganese	19	502	17.1	90	499	99	17.8	94	499	99
Nickel	21	984	13.3	63	1060	108	14.2	68	1060	108
Potassium	0	0	11.2		19.2		7.3		13.5	
Selenium	0	53	18.8		50.6	95	4.4		45.1	85
Silver	0	206	0.029		216	105	0.39		215	104
Sodium	0	0	800		825		799		829	
Thallium	0	103	0.029		104	101	4.3		100	97
Vanadium	0	494	-0.17		499	101	-0.19		498	101
Zinc	28	1030	31.9	114	967	94	31.2	111	969	94

USEPA-CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

ab Name: SVL Analytical, Inc. Contract: EP-W-08-068

ab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

CP-AES Instrument ID: OPTIMA5 ICS Source: 1206/0203

oncentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Aluminum	244000	241000					248000	102	257000	107
Antimony	0	589					-3.6		616	105
Arsenic	0	101					-2.1		96.3	95
Barium	2.0	495					6.0	300	496	100
Beryllium	0	475					0.56		502	106
Cadmium	0	940					1.4		946	101
Calcium	235000	231000					235000	100	240000	104
Chromium	43	511					43.2	100	529	104
Cobalt	4.0	461					4.9	122	475	103
Copper	23	548					19.7	86	576	105
Iron	95600	94800					94400	99	96600	102
Lead	10	61					14.9	149	65.3	107
Magnesium	248000	251000					248000	100	258000	103
Manganese	19	502					17.0	89	500	100
Nickel	21	984					15.2	72	1070	109
Potassium	0	0					6.5		16.7	
Selenium	0	53					-2.4		57.0	108
Silver	0	206					0.23		218	106
Sodium	0	0					802		842	
Thallium	0	103					3.7		103	100
Vanadium	0	494					-0.60		502	102
Zinc	28	1030					30.5	109	956	93

USEPA-CLP

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME3HC9S

b Name: SVL Analytical, Inc. Contract: EP-W-08-068

b Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Level (low/med): LOW

trix (soil/water): SOIL

Solids for Sample: 77.4

oncentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		10314.2400		8740.7540		0.00	0		P
Antimony	75 - 125	12.2401		0.9765	J	25.84	44	N	P
Arsenic	75 - 125	13.6375		5.3081		10.34	81		P
Barium	75 - 125	601.0691		101.1538		516.80	97		P
Beryllium	75 - 125	13.5734		0.5294	J	12.92	101		P
Cadmium	75 - 125	11.4681		0.6460	U	12.92	89		P
Calcium		5224.8120		4556.9470		0.00	0		P
Chromium	75 - 125	66.1488		15.0835		51.68	99		P
Cobalt	75 - 125	130.4801		8.8364		129.20	94		P
Copper	75 - 125	82.9183		13.4566		64.60	108		P
Iron		16118.0600		16474.7200		0.00	0		P
Lead		20.1613		25.3588		5.17	-101		P
Magnesium		4371.8360		3664.8400		0.00	0		P
Manganese		901.7468		822.0341		129.20	62		P
Mercury	75 - 125	0.6654		0.0388		0.65	96		CV
Nickel	75 - 125	134.8643		12.8088		129.20	94		P
Potassium		886.6906		781.5973		0.00	0		P
Selenium	75 - 125	8.8050		4.5220	U	12.92	68	N	P
Silver	75 - 125	12.4569		1.2920	U	12.92	96		P
Sodium		32.9331	J	30.0272	J	0.00	0		P
Thallium	75 - 125	11.3651		3.2300	U	12.92	88		P
Vanadium	75 - 125	156.1525		27.1521		129.20	100		P
Zinc	75 - 125	159.3440		41.3400		129.20	91		P
Cyanide	75 - 125	7.0444		0.3536		6.46	104		AS

Comments:

USEPA-CLP

5B-IN

POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME3HC9A

ab Name: SVL Analytical, Inc. Contract: EP-W-08-068

ab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

atrix (soil/water): SOIL Level (low/med): LOW

oncentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony		127.48		7.56	J	120.0	100		P
Selenium		64.01		35.00	U	70.0	91		P

Comments:

USEPA-CLP

6-IN

DUPLICATES

EPA SAMPLE NO.

ME3HC9D

ab Name: SVL Analytical, Inc. Contract: EP-W-08-068

ab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

atrix (soil/water): SOIL Level (low/med): LOW

Solids for Sample: 77.4 % Solids for Duplicate: 79.1

oncentration Units: (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8740.7540		9401.9470		7		P
Antimony		0.9765	J	0.8634	J	12		P
Arsenic	1.2920	5.3081		4.3145		21		P
Barium	25.8398	101.1538		97.7761		3		P
Beryllium		0.5294	J	0.5265	J	1		P
Cadmium		0.6460	U	0.6460	U			P
Calcium		4556.9470		4369.4810		4		P
Chromium		15.0835		14.1798		6		P
Cobalt	6.4599	8.8364		7.8728		12		P
Copper	3.2300	13.4566		12.3234		9		P
Iron		16474.7200		15818.8500		4		P
Lead		25.3588		15.2407		50	*	P
Magnesium		3664.8400		3764.0500		3		P
Manganese		822.0341		747.3306		10		P
Mercury		0.0388		0.0388	J	0		CV
Nickel	5.1680	12.8088		12.4362		3		P
Potassium	645.9948	781.5973		815.4310		4		P
Selenium		4.5220	U	4.5220	U			P
Silver		1.2920	U	1.2920	U			P
Sodium		30.0272	J	29.8787	J	0		P
Thallium		3.2300	U	3.2300	U			P
Vanadium	6.4599	27.1521		28.5177		5		P
Zinc		41.3400		41.0221		1		P
Cyanide		0.3536		0.4699	J	28		AS

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8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME3HC9L

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	67653.43		82539.13		22	E	P
Antimony	7.56	J	300.00	U	100		P
Arsenic	41.08		17.48	J	57		P
Barium	782.93		878.88	J	12	E	P
Beryllium	4.10	J	4.43	J	8		P
Cadmium	5.00	U	25.00	U			P
Calcium	35270.77		44611.86		26	E	P
Chromium	116.75		124.64		7		P
Cobalt	68.39		76.10	J	11	E	P
Copper	104.15		97.73	J	6		P
Iron	127514.31		159355.10		25	E	P
Lead	196.28		226.39		15	E	P
Magnesium	28365.86		34475.17		22	E	P
Manganese	6362.54		7875.87		24	E	P
Nickel	99.14		140.03	J	41	E	P
Potassium	6049.56		7351.46	J	22	E	P
Selenium	35.00	U	175.00	U			P
Silver	10.00	U	50.00	U			P
Sodium	232.41	J	316.75	J	36		P
Thallium	25.00	U	125.00	U			P
Vanadium	210.16		224.57	J	7		P
Zinc	319.97		373.59		17	E	P

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

.b Name: SVL Analytical, Inc. Contract: EP-W-08-068

.b Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

.strument Type: CV Instrument ID: Cetac M7500 Date: 01/06/2009

reparation Method: CS1

ɔncentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Mercury	253.70	0.20	0.043

Comments: _____

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

Instrument Type: CV Instrument ID: Cetac M7500 Date: 01/06/2009

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wave-Length /Mass	CRQL	MDL
Mercury	253.70	0.10	0.022

Comments: _____

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

Instrument Type: AS Instrument ID: Alpkem FS3000 Date: 12/29/2008

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Cyanide	570.00	10	0.31

Comments: _____

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Instrument Type: AS Instrument ID: Alpkem FS3000 Date: 12/29/2008

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Cyanide	570.00	10	1.5

Comments:

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Instrument Type: AS Instrument ID: Alpkem FS3000 Date: 12/29/2008

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wave-Length /Mass	CRQL	MDL
Cyanide	570.00	2.5	0.048

Comments:

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9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Instrument Type: P Instrument ID: OPTIMA5 Date: 01/05/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Aluminum	308.22	200	5.2
Antimony	206.84	60	2.1
Arsenic	188.98	10	4.3
Barium	233.53	200	1.6
Beryllium	313.11	5	0.052
Cadmium	226.50	5	0.26
Calcium	315.89	5000	3.8
Chromium	267.72	10	0.47
Cobalt	228.62	50	0.45
Copper	324.75	25	1.2
Iron	273.96	100	5.8
Lead	220.35	10	3.2
Magnesium	279.08	5000	7.6
Manganese	260.57	15	1.1
Nickel	232.00	40	0.56
Potassium	766.49	5000	16.0
Selenium	196.03	35	6.9
Silver	328.07	10	0.20
Sodium	589.59	5000	6.0
Thallium	190.80	25	3.4
Vanadium	292.40	50	0.13
Zinc	206.20	60	0.48

Comments:

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG NO.: ME3HC6

Instrument Type: P Instrument ID: OPTIMA5 Date: 01/06/2009

Preparation Method: HS2

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wave-Length /Mass	CRQL	MDL
Aluminum	308.22	20.00	0.58
Antimony	206.84	6.00	0.40
Arsenic	188.98	1.00	0.31
Barium	233.53	20.00	0.016
Beryllium	313.11	0.50	0.0031
Cadmium	226.50	0.50	0.029
Calcium	315.89	500.00	0.59
Chromium	267.72	1.00	0.039
Cobalt	228.62	5.00	0.052
Copper	324.75	2.50	0.084
Iron	273.96	10.00	0.31
Lead	220.35	1.00	0.35
Magnesium	279.08	500.00	0.57
Manganese	260.57	1.50	0.16
Nickel	232.00	4.00	0.11
Potassium	766.49	500.00	1.4
Selenium	196.03	3.50	0.42
Silver	328.07	1.00	0.030
Sodium	589.59	500.00	0.66
Thallium	190.80	2.50	0.48
Vanadium	292.40	5.00	0.013
Zinc	206.20	6.00	0.21

Comments: _____

USEPA-CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Instrument Type: P Instrument ID: OPTIMA5 Date: 01/06/2009

Preparation Method: HS2

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Aluminum	308.22	200	5.8
Antimony	206.84	60	4.0
Arsenic	188.98	10	3.1
Barium	233.53	200	0.16
Beryllium	313.11	5	0.031
Cadmium	226.50	5	0.29
Calcium	315.89	5000	5.9
Chromium	267.72	10	0.39
Cobalt	228.62	50	0.52
Copper	324.75	25	0.84
Iron	273.96	100	3.1
Lead	220.35	10	3.5
Magnesium	279.08	5000	5.7
Manganese	260.57	15	1.6
Nickel	232.00	40	1.1
Potassium	766.49	5000	14.0
Selenium	196.03	35	4.2
Silver	328.07	10	0.30
Sodium	589.59	5000	6.6
Thallium	190.80	25	4.8
Vanadium	292.40	50	0.13
Zinc	206.20	60	2.1

Comments:

USEPA-CLP

12-IN

PREPARATION LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Preparation Method: HS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/05/2009	1.00	100
ME3HC6	11/05/2009	1.00	100
ME3HC7	11/05/2009	1.00	100
ME3HC8	11/05/2009	1.00	100
ME3HC9	11/05/2009	1.00	100
ME3HC9D	11/05/2009	1.00	100
ME3HC9S	11/05/2009	1.00	100
ME3HD0	11/05/2009	1.00	100
ME3HD3	11/05/2009	1.00	100
PBS	11/05/2009	1.00	100

USEPA-CLP

12-IN

PREPARATION LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	11/13/2009		50
LCSS	11/13/2009	1.00	50
ME3HC6	11/13/2009	1.00	50
ME3HC7	11/13/2009	1.00	50
ME3HC8	11/13/2009	1.00	50
ME3HC9	11/13/2009	1.00	50
ME3HC9D	11/13/2009	1.00	50
ME3HC9S	11/13/2009	1.00	50
ME3HD0	11/13/2009	1.00	50
ME3HD3	11/13/2009	1.00	50
MIDRANGE	11/13/2009		50
PBS	11/13/2009	1.00	50

USEPA-CLP

12-IN

PREPARATION LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG NO.: ME3HC6

Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	11/10/2009		100
CCB	11/10/2009		100
CCB	11/10/2009		100
CCV	11/10/2009		100
CCV	11/10/2009		100
CCV	11/10/2009		100
CRI	11/10/2009		100
ICB	11/10/2009		100
ICV	11/10/2009		100
LCSS	11/10/2009	0.20	100
ME3HC6	11/10/2009	0.20	100
ME3HC7	11/10/2009	0.20	100
ME3HC8	11/10/2009	0.20	100
ME3HC9	11/10/2009	0.20	100
ME3HC9D	11/10/2009	0.20	100
ME3HC9S	11/10/2009	0.20	100
ME3HD0	11/10/2009	0.20	100
ME3HD3	11/10/2009	0.20	100
PBS	11/10/2009	0.20	100
S0	11/10/2009		100
S0.2	11/10/2009		100
S0.5	11/10/2009		100
S1	11/10/2009		100
S10	11/10/2009		100
S2	11/10/2009		100
S5	11/10/2009		100

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USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG No.: ME3HC6

Instrument ID: Cetac M7500 Analysis Method: CV

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	0901															X											
S0.2	1.0	0902															X											
S0.5	1.0	0904															X											
S1	1.0	0906															X											
S2	1.0	0907															X											
S5	1.0	0909															X											
S10	1.0	0911															X											
ICV	1.0	0912															X											
ICB	1.0	0914															X											
CRI	1.0	0916															X											
CCV	1.0	0917															X											
CCB	1.0	0919															X											
PBS	1.0	0921															X											
LCSS	1.0	0922															X											
ME3HC6	1.0	0924															X											
ME3HC7	1.0	0926															X											
ME3HC8	1.0	0927															X											
ME3HC9	1.0	0929															X											
ME3HC9D	1.0	0931															X											
ME3HC9S	1.0	0932															X											
ME3HD0	1.0	0934															X											
ME3HD3	1.0	0936															X											
CCV	1.0	0937															X											
CCB	1.0	0939															X											
ZZZZZZ	1.0	0941																										
ZZZZZZ	1.0	0942																										
ZZZZZZ	1.0	0944																										
ZZZZZZ	1.0	0945																										
ZZZZZZ	1.0	0947																										
ZZZZZZ	1.0	0949																										
CRI	1.0	0950															X											
CCV	1.0	0952															X											
CCB	1.0	0954															X											

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG No.: ME3HC6

Instrument ID: Alpkem FS3000 Analysis Method: AS

Start Date: 11/17/2009 End Date: 11/17/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1035																								X		
S5.0	1.0	1037																								X		
S10.0	1.0	1039																								X		
S50.0	1.0	1041																								X		
S100.0	1.0	1043																								X		
S200.0	1.0	1045																								X		
ICV	1.0	1047																								X		
ICB	1.0	1049																								X		
CRI	1.0	1051																								X		
CCV	1.0	1053																								X		
CCB	1.0	1055																								X		
MIDRANGE	1.0	1057																								X		
CCV	1.0	1059																								X		
CCB	1.0	1101																								X		
BASELINE	1.0	1103																								X		
PBS	1.0	1105																								X		
LCSS	1.0	1107																								X		
ZZZZZZ	1.0	1109																										
ME3HC7	1.0	1111																								X		
ME3HC8	1.0	1113																								X		
ME3HC9	1.0	1115																								X		
ZZZZZZ	1.0	1117																										
CRI	1.0	1119																								X		
CCV	1.0	1121																								X		
CCB	1.0	1123																								X		
BASELINE	1.0	1125																								X		
ME3HC9D	1.0	1127																								X		
ME3HC9S	1.0	1129																								X		
ME3HD0	1.0	1131																								X		
ME3HD3	1.0	1133																								X		
CRI	1.0	1135																								X		
CCV	1.0	1137																								X		
CCB	1.0	1139																								X		
BASELINE	1.0	1141																								X		
ME3HC6	1.0	1146																								X		
CRI	1.0	1148																								X		
CCV	1.0	1150																								X		

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HC6

Instrument ID: Alpkem FS3000 Analysis Method: AS

Start Date: 11/17/2009 End Date: 11/17/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCB	1.0	1152																								X		

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HC6

Instrument ID: OPTIMA5 Analysis Method: P

Start Date: 11/12/2009 End Date: 11/12/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1532	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1538		X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X			
S	1.0	1543	X						X				X		X							X						
S	1.0	1548																										
ICV	1.0	1553	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1559	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	1605	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	1610	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1617	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1623	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1629	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1641																										
ZZZZZZ	1.0	1647																										
CRI	1.0	1654	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	1700	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1706	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1713	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1719	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBS	1.0	1726	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCSS	1.0	1732	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HC6	1.0	1739	X	X	X	X	X	X		X	X	X	X	X		X		X	X	X	X	X	X	X	X			
ME3HC7	1.0	1745	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HC8	1.0	1751	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HC9	1.0	1757	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	5.0	1803																										
ME3HC9D	1.0	1809	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HC9S	1.0	1815	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1821	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1827	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HD0	1.0	1833	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HD3	1.0	1839	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	1845	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	1851	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1857	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1904	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1910	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

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USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: _____ SDG No.: ME3HC6

Instrument ID: OPTIMA5 Analysis Method: P

Start Date: 11/12/2009 End Date: 11/12/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1937	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1943		X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X			
S	1.0	1948	X						X				X		X							X						
S	1.0	1953																										
ICV	1.0	1958	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	2004	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	2011	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	2017	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	2024	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	2030	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	2036	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	2128																										
ME3HC9L	5.0	2135	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME3HC9A	1.0	2142		X																X								
CRI	1.0	2149	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	2156	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	2203	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	2210	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	2218	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

USEPA-CLP

13-IN

ANALYSIS RUN LOG

Lab Name: SVL Analytical, Inc. Contract: EP-W-08-068

Lab Code: SVL Case No.: 39181 NRAS No.: SDG No.: ME3HC6

Instrument ID: OPTIMA5 Analysis Method: P

Start Date: 11/17/2009 End Date: 11/17/2009

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1444	X						X				X		X													
S0	1.0	1449	X						X				X		X													
S	1.0	1455																										
S	1.0	1501	X						X				X		X													
S	1.0	1506																										
ICV	1.0	1511	X						X				X		X													
ICB	1.0	1516	X						X				X		X													
CRI	1.0	1522	X						X				X		X													
CRI	1.0	1529	X						X				X		X													
ICSA	1.0	1535	X						X				X		X													
ICSAB	1.0	1541	X						X				X		X													
CCV	1.0	1547	X						X				X		X													
CCB	1.0	1553	X						X				X		X													
ME3HC6	3.0	1607							X						X													
CRI	1.0	1613	X						X				X		X													
ICSA	1.0	1619	X						X				X		X													
ICSAB	1.0	1625	X						X				X		X													
CCV	1.0	1632	X						X				X		X													
CCB	1.0	1638	X						X				X		X													

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME3HC6 CERCLIS No: WIN000510360

Case No: 39181 Site Name/Location: Hartland Well #3

Contractor or EPA Lab: SVL Data User: WDNR

No. of Samples: 6 Date Sampled or Date Received: 20 Nov 09

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: 6 No. of samples received: ____

Received by: [signature] Date: 20 Nov 09

Received by LSSS: [signature] Date: 23 Nov 09

Review started: 1/28/10 Reviewer Signature: [signature]

Total time spent on review: 5.5 Date review completed: 1/29/10

Copied by: A. C. Harvey H.O. 2-3-10 Date: 2/3/10

Mailed to user by: [signature] Date: 8 FEB 10

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

ESAT Controlled Number: ESAT5.17.01031-pj 16 FEB 10

DATE: February 16, 2010

Wisconsin Department of Natural Resources
ATTN: **Mr. John Krahling**
Bureau of Solids Waste Mgmt. GEF-2
101 South Webster Street (RR/3)
Madison, WI 53707-7921

SITE NAME: Hartland Well #3 (WI)

Case	Lab	Samples	SDG	Matrix
39181	ALS DataChem	21	E3HD4	soil

Analysis: low level volatile, SVOA, pesticide, aroclor

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Chicago Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat A. Joyner
Data Coordinator
ESAT Region 5 - **Techlaw Inc.**

ESAT Controlled Number: ESAT5.17.01027-pj-12FEB10

DATE: February 12, 2010

Wisconsin Department of Natural Resources
ATTN: **Mr. John Krahling**
Bureau of Solids Waste Mgmt. GEF-2
101 South Webster Street (RR/3)
Madison, WI 53707-7921

SITE NAME: Hartland Well #3 (WI)

Case	Lab	Samples	SDG	Matrix
39181	DataChem	8	E3HC6	soil

Analysis: low level volatile, SVOA, pesticide, aroclor

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Chicago Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat A. Joyner
Data Coordinator
ESAT Region 5 - **Techlaw Inc.**

Controlled Document

ESAT5.16.00388

ACH
2-11-10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: November 20, 2009

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data for the following case:

Site Name: Hartland Well #3 (WI)

Case Number: 39181 SDG Number: E3HC6

Number and Type of Samples: 8 soils (low level volatile, SVOA, pesticide, aroclor)

Sample Numbers: E3HC6 – E3HC9, E3HD0 – E3HD3

Laboratory: DataChem Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-5J

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HC6
Laboratory: DataChem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) soil samples labeled E3HC6 thru E3HC9 and E3HD0 thru E3HD3, were collected from 11-02-2009 thru 11-04-2009. The samples were received by DataChem located in Salt Lake City on 11-04-2009 and 11-05-2009. Samples E3HC6 thru E3HC9, E3HD0 and E3HD3 were received intact. The condition upon receipt for samples E3HD1 and E3HD2 was not recorded on the Chain-of-Custody or Form DC-1. All samples arrived in the coolers with a temperature of -4.0°C which is outside the EPA guidelines for proper shipping temperature range of 2 - 6°C. No sample results are qualified for sample condition upon receipt or outside the temperature range.

All samples were analyzed the low level volatile, semivolatile, pesticide and aroclor target compounds. All samples were analyzed according to CLP SOW SOM01.2 (6/2007) and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.4).

Sample E3HC9 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

No samples were identified as field blanks or field duplicates.

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HC6
Laboratory: DataChem

1. HOLDING TIME

No problems were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found.

3. CALIBRATION

The following volatile samples are associated with an initial calibration and CCVs with relative response factors (RRFs) outside criteria. 1,4-Dioxane was not detected in the samples. Non-detected 1,4-Dioxane is qualified "R".

E3HC6, E3HC7, E3HC8, E3HC9, E3HC9MS, E3HC9MSD, E3HD0, E3HD1, E3HD2, E3HD3, VBLKS1, VHBLKS1
1,4-Dioxane

The following volatile samples are associated with an initial calibration and CCVs in which a DMC did not meet relative response factor (RRF) criteria. Detected and non-detected compounds are not qualified.

E3HC6, E3HC7, E3HC8, E3HC9, E3HC9MS, E3HC9MSD, E3HD0, E3HD1, E3HD2, E3HD3, VBLKS1, VHBLKS1
1,4-Dioxane-d_8

The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. The detected compound in the samples is qualified "J". The non-detected compound in the samples is not qualified.

E3HC6, E3HC7, E3HC8, E3HC9, E3HC9MS, E3HC9MSD, E3HD0, E3HD1, E3HD2, E3HD3, SBLK13, SBLK99
Naphthalene

The following semivolatile samples are associated with an opening CCVs percent difference (%D) outside criteria. Detected Benzo (b) fluoranthene in the samples is qualified "J". Non-detected compounds are qualified "UJ".

E3HC6, E3HC7, E3HC8, E3HC9, E3HC9MS, E3HC9MSD, E3HD0, E3HD1, E3HD2, E3HD3, SBLK13, SBLK99
2-Nitrophenol, Benzo (b) fluoranthene

4. BLANKS

The following volatile samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

E3HC6, E3HC7, E3HC8, E3HD0, E3HD1, E3HD2, E3HD3
Carbon disulfide

The following semivolatile samples have TIC concentrations reported less than 5X the method blank concentration. Detected compounds are qualified "U" and deleted from the TIC report.

Unknown @ 10.14
E3HD0

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have one or more DMC/SMC recovery values is less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected Methylene Chloride is qualified "J". Non-detected compounds are qualified "UJ".

E3HC9MSD
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2,-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl tert-Butyl Ether, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloroethane, 1,2-Dibromoethane

The following semivolatile samples have deuterated monitoring compound recovery above the upper limit of the criteria window. Detected Naphthalene is qualified "J". Non-detected compounds are not qualified.

E3HD3
Naphthalene, 2-Methylnaphthalene, 2-Chloronaphthalene, Acenaphthylene, Acenaphthene

The following aroclor samples have one surrogate percent recoveries which exceed the primary maximum criteria but are less than or equal to the expanded maximum criteria. Detected and non-detected compounds are not qualified because the reported value was within the QC limit.

E3HC6

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E3HC9 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

The following semivolatile matrix spike/matrix spike duplicate samples have percent recoveries greater than the upper acceptance criteria. Detected Phenol in the unspiked sample (E3HC9) is qualified "J". Non-detected 4-Nitrophenol and Pentachlorophenol in the unspiked sample (E3HC9) are not qualified.

E3HC9MS
Phenol, 4-Nitrophenol

E3HC9MSD
Phenol, 4-Nitrophenol, Pentachlorophenol

The aroclor Form III – MS/MSD Summary was re-calculated using the lowest obtained value for each compound. The RPDs were re-calculated using these values.

	MS % Rec	MSD % Rec	RPD	RPD QC	REC QC
Aroclor-1016	65	69	6	0-15	29 - 135
Aroclor-1260	73	71	3	0-20	29 - 135

No problems were found for aroclor MS / MSD using the above values.

6B. LABORATORY CONTROL SAMPLE

No problems were found.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks or field duplicates.

8. INTERNAL STANDARDS

No problems were found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all volatile, semivolatile, pesticide and aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile soil samples have compound concentrations less than the CRQL. Detected compounds are qualified "J".

E3HC6
Methylene chloride, Toluene, m,p-Xylene

E3HC7
Methylene chloride, Toluene

E3HC8, E3HD0, E3HD1, E3HD2
Toluene

E3HC9MSD, E3HD3
Methylene chloride

VBLKS1
Carbon disulfide, 1,2,4-Trichlorobenzene, 1,2,3- Trichlorobenzene

A library search indicates a match at or above 85% for a TIC compound in the volatile soil samples. Detected compounds are qualified "NJ".

CAS No. 87-44-5 Caryophyllene
E3HD2

CAS No. 127-91-3 .beta.-Pinene
E3HC9, E3HD2

CAS No. 5989-54-8 Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (S)-
CAS No. 13466-78-9 3-Carene
E3HC9

CAS No. 7785-70-8 1R-.alpha.-Pinene
E3HC9, E3HD2

A library search indicates a match below 85% for a TIC compound in the volatile soil samples. Detected compounds are qualified "J".

Unknown @ 15.18
E3HD2

The following semivolatile soil samples have compound concentrations less than the CRQL. Detected compounds are qualified "J".

E3HC6
Benzaldehyde, Phenol, Acetophenone, Caprolactam, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Di-n-butylphthalate, Butylbenzylphthalate, Bis(2-ethylhexyl)phthalate, Dibenzo(a,h)anthracene

E3HC7
Benzaldehyde, Phenol, Acetophenone, Acenaphthene, Diethylphthalate, Fluorene, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HC8
Benzaldehyde, Phenol, Acetophenone, Diethylphthalate, Phenanthrene, Di-n-butylphthalate, Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HC9
Benzaldehyde, Phenol, Acetophenone, Phenanthrene, Di-n-butylphthalate, Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HC9MS
Benzaldehyde, Acetophenone, Naphthalene, Phenanthrene, Di-n-butylphthalate, Fluoranthene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

E3HC9MSD
Benzaldehyde, Acetophenone, Naphthalene, Diethylphthalate, Phenanthrene, Di-n-butylphthalate, Fluoranthene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HD0
Benzaldehyde, Phenol, Acetophenone, Caprolactam, Acenaphthene, Diethylphthalate, Fluorene, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HD1
Benzaldehyde, Phenol, Acetophenone, Naphthalene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Di-n-butylphthalate, Butylbenzylphthalate,

Bis(2-ethylhexyl)phthalate, Dibenzo(a,h)anthracene

E3HD2
Phenol, Acetophenone, Naphthalene, Diethylphthalate, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E3HD3
Benzaldehyde, Phenol, Acetophenone, Naphthalene, Diethylphthalate, Phenanthrene, Di-n-butylphthalate, Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

A library search indicates a match at or above 85% for a TIC compound in the semivolatile samples. Detected compounds are qualified "NJ".

CAS No. 57-10-3 n-Hexadecanoic acid
CAS No. 80-56-8 .alpha.-Pinene
CAS No. 2091-29-4 9-Hexadecenoic acid
CAS No. 17351-34-7 14-Pentadecenoic acid
CAS No. 18172-67-3 Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-
CAS No. 1000130-84-4 Z-9-Tetradecenoic acid
E3HD2

CAS No. 83-47-6 .gamma.-Sitosterol
E3HC8, E3HD1

CAS No. 84-65-1 9,10-Anthracenedione
CAS No. 198-55-0 Perylene
E3HC6, E3HD1

CAS No. 127-25-3 Methyl abietate
CAS No. 127-91-3 .beta.-Pinene
CAS No. 1235-74-1 1-Phenanthrenecarboxylic acid; 1,2,3,4,4a,9,10,1
CAS No. 3310-97-2 1-Phenanthrenecarboxylic acid; 1,2,3,4,4a,4b,5,6
CAS No. 7785-26-4 1S-.alpha.-Pinene
CAS No. 1000159-38-9 Bicyclo[5.2.0]nonane, 2-methylene-4,8,8-trimethy
E3HC9

CAS No. 191-26-4 Dibenzo[deno]chrysene
E3HC8, E3HD1

CAS No. 192-97-2 Benzo[e]pyrene
E3HC6, E3HC7, E3HD2

CAS No. 203-11-2 Indeno[1,2,3-fg]naphthacene
CAS No. 1599-67-3 1-Docosene
E3HD1

CAS No. 220-97-3 11H-Indeno[2,1-a]Phenanthrene
E3HC6

CAS No. 7683-64-9 Squalene
E3HD1, E3HD2

CAS No. 18435-45-5 1-Nonadecene
E3HC8

A library search indicates a match below 85% for a TIC compound in the semivolatile samples. Detected compounds are qualified "J".

Unknown @ 7.15
E3HC7, E3HC8, E3HC9, E3HD0, E3HD3

PNA, MW=276; Unknown @ 15.49; Unknown @ 21.29
E3HC6

Unknown @ 10.14
SBLK99

Unknown @ 12.24; Unknown @ 17.50; Unknown @ 22.24
E3HD1

Unknown @ 13.05; Unknown @ 23.32
E3HD2

Polycyclic hydrocarbon @ 14.47;
Polycyclic hydrocarbon @ 14.70;
Polycyclic hydrocarbon @ 15.23;
Unknown @ 15.71;
Polycyclic hydrocarbon @ 16.34;
Polycyclic hydrocarbon @ 17.34;
Polycyclic hydrocarbon @ 14.58;
Unknown @ 14.78;
Unknown Aromatic @ 15.49;
Unknown Aromatic @ 15.95;
Unknown @ 16.99
Unknown @ 19.97
E3HC9

Unknown @ 19.39
E3HD0

Unknown @ 20.54; Unknown @ 21.92; Unknown Aromatic @ 24.23
E3HC8

Unknown @ 22.43
E3HD0, E3HD1, E3HD2, E3HD3

The following pesticide soil samples have compound concentrations less than the CRQL. Detected compounds are qualified "J".

E3HC6
beta-BHC, delta-BHC, Heptachlor, Dieldrin, Endrin, Endosulfan II, Endosulfan sulfate, Methoxychlor, Endrin ketone, alpha-Chlordane

E3HC7
4,4'-DDD

E3HC9
Endrin ketone

E3HC9MS
4,4'-DDD, Endrin aldehyde

E3HC9MSD
Endrin aldehyde

E3HD1
beta-BHC, Dieldrin, 4,4'-DDD, 4,4'-DDT, alpha-Chlordane

E3HD2
Heptachlor epoxide, 4,4'-DDE

PLCSS1, PLCSS2
gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, Endosulfan sulfate, gamma-Chlordane

The relative percent difference between analyte results for the following pesticide soil samples is greater than 25%. The analyte concentrations are greater than 25% of the CRQL. Detected compounds are qualified "J".

E3HC6
beta-BHC, Dieldrin, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, alpha-Chlordane

E3HC7
4,4'-DDD

E3HC9MS
4,4'-DDD, 4,4'-DDT, Endrin aldehyde

E3HC9MSD
Endrin aldehyde

E3HD1
beta-BHC, 4,4'-DDT

PLCSS1, PLCSS2
4,4'-DDE

The relative percent difference between analyte results for the following pesticide soil samples is greater than 25%. The result concentrations are less than 25% the CRQLs. Detected compounds are qualified "U" as false positives. Reported sample concentrations have been elevated to the CRQL.

E3HC6
Heptachlor epoxide, Endrin aldehyde

E3HC7
alpha-BHC, delta-BHC, Heptachlor, 4,4'-DDE, 4,4'-DDT

E3HC8
alpha-BHC, delta-BHC, Aldrin, 4,4'-DDD

E3HC9
alpha-BHC, delta-BHC, Aldrin, Dieldrin, Endosulfan II, 4,4'-DDT, Methoxychlor, gamma-Chlordane

E3HC9MS
alpha-BHC, delta-BHC, 4,4'-DDE, Endosulfan II, Methoxychlor, Endrin ketone

E3HC9MSD
alpha-BHC, delta-BHC, 4,4'-DDE, Endosulfan II, 4,4'-DDD, Methoxychlor, Endrin ketone

E3HD0
alpha-BHC, delta-BHC, Methoxychlor, gamma-Chlordane

E3HD1
delta-BHC, Heptachlor epoxide, Endosulfan II, Methoxychlor

E3HD2
delta-BHC, Endrin ketone

E3HD3
delta-BHC, Methoxychlor, gamma-Chlordane

PBLKS1
beta-BHC, 4,4'-DDD, Methoxychlor

PBLKS2
Methoxychlor

PLCSS1
delta-BHC, Heptachlor, Aldrin, 4,4'-DDT, Methoxychlor, Endrin ketone, Endrin aldehyde

PLCSS2
delta-BHC, 4,4'-DDT, Methoxychlor, Endrin ketone, Endrin aldehyde

The following aroclor soil samples have compound concentrations less than the CRQL. Detected compounds are qualified "J".

ALCSS2
Aroclor-1260

The relative percent difference between analyte results for the following aroclor soil samples is greater than 25%. The analyte concentrations are greater than 25% of the CRQL. Detected compounds are qualified "J".

E3HC9MSD
Aroclor-1016

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baselines for the pesticide and aroclor analyses were acceptable.

12. ADDITIONAL INFORMATION

The CADRE and EDD spreadsheets did not include the following pesticide and Aroclor samples. Form Is for these samples are included with the hard copy data package.

ALCSS1, ALCSS2, PLCSS1, PLCSS2

The following VOA samples have TICs which have a library match below 85%. The laboratory reported these TICs as a known analyte with CAS Number and qualified as "NJ". According to Region V guideline, these TICs should be identified as unknown and qualified as "J". Corrections on Form I V-TIC and NFG Report #9 were made by the reviewer.

E3HD2

The following SVOA samples have TICs which have a library match below 85%. The laboratory reported these TICs as a known analyte with CAS Number and qualified as "NJ". According to Region V guideline, these TICs should be identified as unknown and qualified as "J". Corrections on Form I SV-TIC and NFG Report #9 were made by the reviewer.

E3HC6, E3HC7, E3HC8, E3HC9, E3HD0, E3HD1, E3HD2, E3HD3

Case Number: 39181
Site Name: Hartland Well #3 (WI)

SDG Number: E3HC6
Laboratory: DataChem

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Reviewed by: Steffanie Tobin/Techlaw-ESAT
Date: February 11, 2010

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Number of Soil Samples : 8
Number of Water Samples : 0
Number of Sediment Samples : 0

Sample Number :	E3HC6		E3HC7		E3HC8		E3HC9		E3HC9MS	
Sampling Location :	SS-1		SS-2		SS-3		SS-4		SS-4	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/2/2009		11/3/2009		11/3/2009		11/3/2009			
Time Sampled :										
%Moisture :	15		23		22		28		28	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Chloromethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Vinyl chloride	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Bromomethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Chloroethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Trichlorofluoromethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,1-Dichloroethene	5.6	U	6.0	U	6.3	U	7.4	U	77	
1,1,2-Trichloro-1,2,2-trifluor	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Acetone	11	U	12	U	13	U	15	U	13	U
Carbon disulfide	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Methyl acetate	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Methylene chloride	0.89	J	0.18	J	6.3	U	7.4	U	6.7	U
trans-1,2-Dichloroethene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Methyl tert-butyl ether	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,1-Dichloroethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
cis-1,2-Dichloroethene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
2-Butanone	11	U	12	U	13	U	15	U	13	U
Bromochloromethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Chloroform	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,1,1-Trichloroethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Cyclohexane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Carbon tetrachloride	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Benzene	5.6	U	6.0	U	6.3	U	7.4	U	67	
1,2-Dichloroethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,4-Dioxane	110	R	120	R	130	R	150	R	130	R
Trichloroethene	5.6	U	6.0	U	6.3	U	7.4	U	65	
Methylcyclohexane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,2-Dichloropropane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Bromodichloromethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
cis-1,3-Dichloropropene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
4-Methyl-2-Pentanone	11	U	12	U	13	U	15	U	13	U
Toluene	0.32	J	0.23	J	0.26	J	7.4	U	69	
trans-1,3-Dichloropropene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E3HC6		E3HC7		E3HC8		E3HC9		E3HC9MS	
Sampling Location :	SS-1		SS-2		SS-3		SS-4		SS-4	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/2/2009		11/3/2009		11/3/2009		11/3/2009			
Time Sampled :										
%Moisture :	15		23		22		28		28	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Tetrachloroethene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
2-Hexanone	11	U	12	U	13	U	15	U	13	U
Dibromochloromethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,2-Dibromoethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Chlorobenzene	5.6	U	6.0	U	6.3	U	7.4	U	66	
Ethylbenzene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
o-Xylene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
m,p-Xylene	0.14	J	6.0	U	6.3	U	7.4	U	6.7	U
Styrene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Bromoform	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
Isopropylbenzene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,1,2,2-Tetrachloroethane	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,3-Dichlorobenzene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,4-Dichlorobenzene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,2-Dichlorobenzene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,2-Dibromo-3-chloropropar	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,2,4-Trichlorobenzene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U
1,2,3-Trichlorobenzene	5.6	U	6.0	U	6.3	U	7.4	U	6.7	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E3HC9MSD		E3HD0		E3HD1		E3HD2		E3HD3	
Sampling Location :	SS-4		SS-5		SS-6		SS-7		SS-8	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			11/3/2009		11/4/2009		11/4/2009		11/3/2009	
Time Sampled :										
%Moisture :	28		13		15		18		22	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Chloromethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Vinyl chloride	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Bromomethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Chloroethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Trichlorofluoromethane	6.9	UJ	5.8	U	4.9	U	5.4	U	6.4	U
1,1-Dichloroethene	83		5.8	U	4.9	U	5.4	U	6.4	U
1,1,2-Trichloro-1,2,2-trifluor	6.9	UJ	5.8	U	4.9	U	5.4	U	6.4	U
Acetone	14	U	12	U	9.8	U	11	U	13	U
Carbon disulfide	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Methyl acetate	6.9	UJ	5.8	U	4.9	U	5.4	U	6.4	U
Methylene chloride	0.29	J	5.8	U	4.9	U	5.4	U	0.27	J
trans-1,2-Dichloroethene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Methyl tert-butyl ether	6.9	UJ	5.8	U	4.9	U	5.4	U	6.4	U
1,1-Dichloroethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
cis-1,2-Dichloroethene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
2-Butanone	14	U	12	U	9.8	U	11	U	13	U
Bromochloromethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Chloroform	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,1,1-Trichloroethane	6.9	UJ	5.8	U	4.9	U	5.4	U	6.4	U
Cyclohexane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Carbon tetrachloride	6.9	UJ	5.8	U	4.9	U	5.4	U	6.4	U
Benzene	71		5.8	U	4.9	U	5.4	U	6.4	U
1,2-Dichloroethane	6.9	UJ	5.8	U	4.9	U	5.4	U	6.4	U
1,4-Dioxane	140	R	120	R	98	R	110	R	130	R
Trichloroethene	70		5.8	U	4.9	U	5.4	U	6.4	U
Methylcyclohexane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,2-Dichloropropane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Bromodichloromethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
cis-1,3-Dichloropropene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
4-Methyl-2-Pentanone	14	U	12	U	9.8	U	11	U	13	U
Toluene	73		0.22	J	0.25	J	0.18	J	6.4	U
trans-1,3-Dichloropropene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E3HC9MSD		E3HD0		E3HD1		E3HD2		E3HD3	
Sampling Location :	SS-4		SS-5		SS-6		SS-7		SS-8	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			11/3/2009		11/4/2009		11/4/2009		11/3/2009	
Time Sampled :										
%Moisture :	28		13		15		18		22	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Tetrachloroethene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
2-Hexanone	14	U	12	U	9.8	U	11	U	13	U
Dibromochloromethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,2-Dibromoethane	6.9	UJ	5.8	U	4.9	U	5.4	U	6.4	U
Chlorobenzene	69		5.8	U	4.9	U	5.4	U	6.4	U
Ethylbenzene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
o-Xylene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
m,p-Xylene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Styrene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Bromoform	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
Isopropylbenzene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,1,2,2-Tetrachloroethane	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,3-Dichlorobenzene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,4-Dichlorobenzene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,2-Dichlorobenzene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,2-Dibromo-3-chloropropar	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,2,4-Trichlorobenzene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U
1,2,3-Trichlorobenzene	6.9	U	5.8	U	4.9	U	5.4	U	6.4	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	VBLKS1		VHBLKS1							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	0		0							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U						
Chloromethane	5.0	U	5.0	U						
Vinyl chloride	5.0	U	5.0	U						
Bromomethane	5.0	U	5.0	U						
Chloroethane	5.0	U	5.0	U						
Trichlorofluoromethane	5.0	U	5.0	U						
1,1-Dichloroethene	5.0	U	5.0	U						
1,1,2-Trichloro-1,2,2-trifluor	5.0	U	5.0	U						
Acetone	10	U	10	U						
Carbon disulfide	0.45	J	5.0	U						
Methyl acetate	5.0	U	5.0	U						
Methylene chloride	5.0	U	5.0	U						
trans-1,2-Dichloroethene	5.0	U	5.0	U						
Methyl tert-butyl ether	5.0	U	5.0	U						
1,1-Dichloroethane	5.0	U	5.0	U						
cis-1,2-Dichloroethene	5.0	U	5.0	U						
2-Butanone	10	U	10	U						
Bromochloromethane	5.0	U	5.0	U						
Chloroform	5.0	U	5.0	U						
1,1,1-Trichloroethane	5.0	U	5.0	U						
Cyclohexane	5.0	U	5.0	U						
Carbon tetrachloride	5.0	U	5.0	U						
Benzene	5.0	U	5.0	U						
1,2-Dichloroethane	5.0	U	5.0	U						
1,4-Dioxane	100	R	100	R						
Trichloroethene	5.0	U	5.0	U						
Methylcyclohexane	5.0	U	5.0	U						
1,2-Dichloropropane	5.0	U	5.0	U						
Bromodichloromethane	5.0	U	5.0	U						
cis-1,3-Dichloropropene	5.0	U	5.0	U						
4-Methyl-2-Pentanone	10	U	10	U						
Toluene	5.0	U	5.0	U						
trans-1,3-Dichloropropene	5.0	U	5.0	U						

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	VBLKS1		VHBLKS1							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	0		0							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U						
Tetrachloroethene	5.0	U	5.0	U						
2-Hexanone	10	U	10	U						
Dibromochloromethane	5.0	U	5.0	U						
1,2-Dibromoethane	5.0	U	5.0	U						
Chlorobenzene	5.0	U	5.0	U						
Ethylbenzene	5.0	U	5.0	U						
o-Xylene	5.0	U	5.0	U						
m,p-Xylene	5.0	U	5.0	U						
Styrene	5.0	U	5.0	U						
Bromoform	5.0	U	5.0	U						
Isopropylbenzene	5.0	U	5.0	U						
1,1,2,2-Tetrachloroethane	5.0	U	5.0	U						
1,3-Dichlorobenzene	5.0	U	5.0	U						
1,4-Dichlorobenzene	5.0	U	5.0	U						
1,2-Dichlorobenzene	5.0	U	5.0	U						
1,2-Dibromo-3-chloropropan	5.0	U	5.0	U						
1,2,4-Trichlorobenzene	0.32	J	5.0	U						
1,2,3-Trichlorobenzene	0.65	J	5.0	U						

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Number of Soil Samples : 8
Number of Water Samples : 0
Number of Sediment Samples : 0

Sample Number :	E3HC6		E3HC7		E3HC8		E3HC9		E3HC9MS	
Sampling Location :	SS-1		SS-2		SS-3		SS-4		SS-4	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/2/2009		11/3/2009		11/3/2009		11/3/2009			
Time Sampled :										
%Moisture :	15		23		22		28		28	
pH :	8.4		7.7		7.6		7.8		7.8	
Dilution Factor :	3.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	38	J	23	J	45	J	36	J	110	J
Phenol	38	J	16	J	19	J	20	J	1900	
Bis(2-chloroethyl)ether	590	U	220	U	210	U	230	U	230	U
2-Chlorophenol	590	U	220	U	210	U	230	U	1700	
2-Methylphenol	590	U	220	U	210	U	230	U	230	U
2,2'-Oxybis(1-chloropropane	590	U	220	U	210	U	230	U	230	U
Acetophenone	160	J	49	J	76	J	64	J	93	J
4-Methylphenol	590	U	220	U	210	U	230	U	230	U
N-Nitroso-di-n-propylamine	590	U	220	U	210	U	230	U	1600	
Hexachloroethane	590	U	220	U	210	U	230	U	230	U
Nitrobenzene	590	U	220	U	210	U	230	U	230	U
Isophorone	590	U	220	U	210	U	230	U	230	U
2-Nitrophenol	590	UJ	220	UJ	210	UJ	230	UJ	230	UJ
2,4-Dimethylphenol	590	U	220	U	210	U	230	U	230	U
Bis(2-chloroethoxy)methane	590	U	220	U	210	U	230	U	230	U
2,4-Dichlorophenol	590	U	220	U	210	U	230	U	230	U
Naphthalene	590	U	220	U	210	U	230	U	8.1	J
4-Chloroaniline	590	U	220	U	210	U	230	U	230	U
Hexachlorobutadiene	590	U	220	U	210	U	230	U	230	U
Caprolactam	44	J	220	U	210	U	230	U	230	U
4-Chloro-3-methylphenol	590	U	220	U	210	U	230	U	1600	
2-Methylnaphthalene	590	U	220	U	210	U	230	U	230	U
Hexachlorocyclopentadiene	590	U	220	U	210	U	230	U	230	U
2,4,6-Trichlorophenol	590	U	220	U	210	U	230	U	230	U
2,4,5-Trichlorophenol	590	U	220	U	210	U	230	U	230	U
1,1'-Biphenyl	590	U	220	U	210	U	230	U	230	U
2-Chloronaphthalene	590	U	220	U	210	U	230	U	230	U
2-Nitroaniline	1100	U	420	U	420	U	450	U	450	U
Dimethylphthalate	590	U	220	U	210	U	230	U	230	U
2,6-Dinitrotoluene	590	U	220	U	210	U	230	U	230	U
Acenaphthylene	590	U	220	U	210	U	230	U	230	U
3-Nitroaniline	1100	U	420	U	420	U	450	U	450	U
Acenaphthene	69	J	8.6	J	210	U	230	U	1600	

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E3HC6		E3HC7		E3HC8		E3HC9		E3HC9MS	
Sampling Location :	SS-1		SS-2		SS-3		SS-4		SS-4	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/2/2009		11/3/2009		11/3/2009		11/3/2009			
Time Sampled :										
%Moisture :	15		23		22		28		28	
pH :	8.4		7.7		7.6		7.8		7.8	
Dilution Factor :	3.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	U	420	U	420	U	450	U	450	U
4-Nitrophenol	1100	U	420	U	420	U	450	U	2500	
Dibenzofuran	26	J	220	U	210	U	230	U	230	U
2,4-Dinitrotoluene	590	U	220	U	210	U	230	U	1500	
Diethylphthalate	590	U	7.1	J	12	J	230	U	230	U
Fluorene	80	J	8.7	J	210	U	230	U	230	U
4-Chlorophenyl-phenylether	590	U	220	U	210	U	230	U	230	U
4-Nitroaniline	1100	U	420	U	420	U	450	U	450	U
4,6-Dinitro-2-methylphenol	1100	U	420	U	420	U	450	U	450	U
N-Nitrosodiphenylamine	590	U	220	U	210	U	230	U	230	U
1,2,4,5-Tetrachlorobenzene	590	U	220	U	210	U	230	U	230	U
4-Bromophenyl-phenylether	590	U	220	U	210	U	230	U	230	U
Hexachlorobenzene	590	U	220	U	210	U	230	U	230	U
Atrazine	590	U	220	U	210	U	230	U	230	U
Pentachlorophenol	1100	U	420	U	420	U	450	U	1900	
Phenanthrene	1500		160	J	45	J	20	J	15	J
Anthracene	190	J	24	J	210	U	230	U	230	U
Carbazole	110	J	13	J	210	U	230	U	230	U
Di-n-butylphthalate	19	J	9.6	J	13	J	12	J	11	J
Fluoranthene	3500		370		140	J	67	J	50	J
Pyrene	2900		240		110	J	43	J	1600	
Butylbenzylphthalate	44	J	16	J	28	J	30	J	27	J
3,3'-Dichlorobenzidine	590	U	220	U	210	U	230	U	230	U
Benzo(a)anthracene	1400		140	J	51	J	22	J	21	J
Chrysene	1900		140	J	77	J	34	J	28	J
Bis(2-ethylhexyl)phthalate	130	J	16	J	37	J	34	J	130	J
Di-n-octylphthalate	590	U	220	U	210	U	230	U	230	U
Benzo(b)fluoranthene	2400	J	160	J	97	J	42	J	34	J
Benzo(k)fluoranthene	750		60	J	30	J	12	J	8.6	J
Benzo(a)pyrene	1600		130	J	67	J	33	J	26	J
Indeno(1,2,3-cd)pyrene	1900		120	J	87	J	34	J	29	J
Dibenzo(a,h)anthracene	330	J	27	J	17	J	8.7	J	230	U
Benzo(g,h,i)perylene	1900		120	J	76	J	31	J	29	J
2,3,4,6-Tetrachlorophenol	590	U	220	U	210	U	230	U	230	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E3HC9MSD		E3HD0		E3HD1		E3HD2		E3HD3	
Sampling Location :	SS-4		SS-5		SS-6		SS-7		SS-8	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			11/3/2009		11/4/2009		11/4/2009		11/3/2009	
Time Sampled :										
%Moisture :	28		13		15		18		22	
pH :	7.8		7.7		8.2		8.3		7.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	120	J	50	J	110	J	290		62	J
Phenol	2000		22	J	32	J	24	J	29	J
Bis(2-chloroethyl)ether	240	U	190	U	200	U	200	U	220	U
2-Chlorophenol	1700		190	U	200	U	200	U	220	U
2-Methylphenol	240	U	190	U	200	U	200	U	220	U
2,2'-Oxybis(1-chloropropane	240	U	190	U	200	U	200	U	220	U
Acetophenone	110	J	62	J	130	J	100	J	77	J
4-Methylphenol	240	U	190	U	200	U	200	U	220	U
N-Nitroso-di-n-propylamine	1600		190	U	200	U	200	U	220	U
Hexachloroethane	240	U	190	U	200	U	200	U	220	U
Nitrobenzene	240	U	190	U	200	U	200	U	220	U
Isophorone	240	U	190	U	200	U	200	U	220	U
2-Nitrophenol	240	UJ	190	UJ	200	UJ	200	UJ	220	UJ
2,4-Dimethylphenol	240	U	190	U	200	U	200	U	220	U
Bis(2-chloroethoxy)methane	240	U	190	U	200	U	200	U	220	U
2,4-Dichlorophenol	240	U	190	U	200	U	200	U	220	U
Naphthalene	8.7	J	190	U	12	J	6.3	J	6.7	J
4-Chloroaniline	240	U	190	U	200	U	200	U	220	U
Hexachlorobutadiene	240	U	190	U	200	U	200	U	220	U
Caprolactam	240	U	28	J	200	U	200	U	220	U
4-Chloro-3-methylphenol	1500		190	U	200	U	200	U	220	U
2-Methylnaphthalene	240	U	190	U	200	U	200	U	220	U
Hexachlorocyclopentadiene	240	U	190	U	200	U	200	U	220	U
2,4,6-Trichlorophenol	240	U	190	U	200	U	200	U	220	U
2,4,5-Trichlorophenol	240	U	190	U	200	U	200	U	220	U
1,1'-Biphenyl	240	U	190	U	200	U	200	U	220	U
2-Chloronaphthalene	240	U	190	U	200	U	200	U	220	U
2-Nitroaniline	460	U	380	U	390	U	400	U	420	U
Dimethylphthalate	240	U	190	U	200	U	200	U	220	U
2,6-Dinitrotoluene	240	U	190	U	200	U	200	U	220	U
Acenaphthylene	240	U	190	U	200	U	200	U	220	U
3-Nitroaniline	460	U	380	U	390	U	400	U	420	U
Acenaphthene	1500		6.5	J	48	J	200	U	220	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E3HC9MSD		E3HD0		E3HD1		E3HD2		E3HD3	
Sampling Location :	SS-4		SS-5		SS-6		SS-7		SS-8	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			11/3/2009		11/4/2009		11/4/2009		11/3/2009	
Time Sampled :										
%Moisture :	28		13		15		18		22	
pH :	7.8		7.7		8.2		8.3		7.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	460	U	380	U	390	U	400	U	420	U
4-Nitrophenol	2600		380	U	390	U	400	U	420	U
Dibenzofuran	240	U	190	U	28	J	200	U	220	U
2,4-Dinitrotoluene	1600		190	U	200	U	200	U	220	U
Diethylphthalate	7.5	J	14	J	200	U	7.6	J	9.2	J
Fluorene	240	U	5.8	J	54	J	200	U	220	U
4-Chlorophenyl-phenylether	240	U	190	U	200	U	200	U	220	U
4-Nitroaniline	460	U	380	U	390	U	400	U	420	U
4,6-Dinitro-2-methylphenol	460	U	380	U	390	U	400	U	420	U
N-Nitrosodiphenylamine	240	U	190	U	200	U	200	U	220	U
1,2,4,5-Tetrachlorobenzene	240	U	190	U	200	U	200	U	220	U
4-Bromophenyl-phenylether	240	U	190	U	200	U	200	U	220	U
Hexachlorobenzene	240	U	190	U	200	U	200	U	220	U
Atrazine	240	U	190	U	200	U	200	U	220	U
Pentachlorophenol	2100		380	U	390	U	400	U	420	U
Phenanthrene	27	J	74	J	710		68	J	21	J
Anthracene	240	U	14	J	120	J	8.9	J	220	U
Carbazole	240	U	9.9	J	72	J	7.3	J	220	U
Di-n-butylphthalate	14	J	20	J	9.5	J	8.4	J	12	J
Fluoranthene	80	J	130	J	1400		200	J	56	J
Pyrene	1600		86	J	1000		140	J	40	J
Butylbenzylphthalate	30	J	23	J	16	J	13	J	21	J
3,3'-Dichlorobenzidine	240	U	190	U	200	U	200	U	220	U
Benzo(a)anthracene	28	J	48	J	540		84	J	22	J
Chrysene	40	J	54	J	590		110	J	26	J
Bis(2-ethylhexyl)phthalate	32	J	26	J	77	J	55	J	26	J
Di-n-octylphthalate	240	U	190	U	200	U	200	U	220	U
Benzo(b)fluoranthene	41	J	56	J	950	J	160	J	27	J
Benzo(k)fluoranthene	21	J	20	J	300		62	J	12	J
Benzo(a)pyrene	37	J	44	J	600		110	J	27	J
Indeno(1,2,3-cd)pyrene	39	J	40	J	680		130	J	24	J
Dibenzo(a,h)anthracene	7.5	J	8.0	J	120	J	26	J	220	U
Benzo(g,h,i)perylene	37	J	37	J	650		120	J	23	J
2,3,4,6-Tetrachlorophenol	240	U	190	U	200	U	200	U	220	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	SBLK13		SBLK99							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	0		0							
pH :										
Dilution Factor :	1.0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	170	U	170	U						
Phenol	170	U	170	U						
Bis(2-chloroethyl)ether	170	U	170	U						
2-Chlorophenol	170	U	170	U						
2-Methylphenol	170	U	170	U						
2,2'-Oxybis(1-chloropropane	170	U	170	U						
Acetophenone	170	U	170	U						
4-Methylphenol	170	U	170	U						
N-Nitroso-di-n-propylamine	170	U	170	U						
Hexachloroethane	170	U	170	U						
Nitrobenzene	170	U	170	U						
Isophorone	170	U	170	U						
2-Nitrophenol	170	UJ	170	UJ						
2,4-Dimethylphenol	170	U	170	U						
Bis(2-chloroethoxy)methane	170	U	170	U						
2,4-Dichlorophenol	170	U	170	U						
Naphthalene	170	U	170	U						
4-Chloroaniline	170	U	170	U						
Hexachlorobutadiene	170	U	170	U						
Caprolactam	170	U	170	U						
4-Chloro-3-methylphenol	170	U	170	U						
2-Methylnaphthalene	170	U	170	U						
Hexachlorocyclopentadiene	170	U	170	U						
2,4,6-Trichlorophenol	170	U	170	U						
2,4,5-Trichlorophenol	170	U	170	U						
1,1'-Biphenyl	170	U	170	U						
2-Chloronaphthalene	170	U	170	U						
2-Nitroaniline	330	U	330	U						
Dimethylphthalate	170	U	170	U						
2,6-Dinitrotoluene	170	U	170	U						
Acenaphthylene	170	U	170	U						
3-Nitroaniline	330	U	330	U						
Acenaphthene	170	U	170	U						

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	SBLK13		SBLK99							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	0		0							
pH :										
Dilution Factor :	1.0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	330	U	330	U						
4-Nitrophenol	330	U	330	U						
Dibenzofuran	170	U	170	U						
2,4-Dinitrotoluene	170	U	170	U						
Diethylphthalate	170	U	170	U						
Fluorene	170	U	170	U						
4-Chlorophenyl-phenylether	170	U	170	U						
4-Nitroaniline	330	U	330	U						
4,6-Dinitro-2-methylphenol	330	U	330	U						
N-Nitrosodiphenylamine	170	U	170	U						
1,2,4,5-Tetrachlorobenzene	170	U	170	U						
4-Bromophenyl-phenylether	170	U	170	U						
Hexachlorobenzene	170	U	170	U						
Atrazine	170	U	170	U						
Pentachlorophenol	330	U	330	U						
Phenanthrene	170	U	170	U						
Anthracene	170	U	170	U						
Carbazole	170	U	170	U						
Di-n-butylphthalate	170	U	170	U						
Fluoranthene	170	U	170	U						
Pyrene	170	U	170	U						
Butylbenzylphthalate	170	U	170	U						
3,3'-Dichlorobenzidine	170	U	170	U						
Benzo(a)anthracene	170	U	170	U						
Chrysene	170	U	170	U						
Bis(2-ethylhexyl)phthalate	170	U	170	U						
Di-n-octylphthalate	170	U	170	U						
Benzo(b)fluoranthene	170	UJ	170	UJ						
Benzo(k)fluoranthene	170	U	170	U						
Benzo(a)pyrene	170	U	170	U						
Indeno(1,2,3-cd)pyrene	170	U	170	U						
Dibenzo(a,h)anthracene	170	U	170	U						
Benzo(g,h,i)perylene	170	U	170	U						
2,3,4,6-Tetrachlorophenol	170	U	170	U						

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Number of Soil Samples : 8
Number of Water Samples : 0
Number of Sediment Samples : 0

Sample Number :	E3HC6		E3HC7		E3HC8		E3HC9		E3HC9MS	
Sampling Location :	SS-1		SS-2		SS-3		SS-4		SS-4	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/2/2009		11/3/2009		11/3/2009		11/3/2009			
Time Sampled :										
%Moisture :	15		23		22		28		28	
pH :	8.4		7.7		7.6		7.8		7.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2	U	2.2	U	2.2	U	2.4	U	2.4	U
beta-BHC	0.97	J	2.2	U	2.2	U	2.4	U	2.4	U
delta-BHC	0.39	J	2.2	U	2.2	U	2.4	U	2.4	U
gamma-BHC (Lindane)	2	U	2.2	U	2.2	U	2.4	U	16	
Heptachlor	0.92	J	2.2	U	2.2	U	2.4	U	16	
Aldrin	2	U	2.2	U	2.2	U	2.4	U	17	
Heptachlor epoxide	2	U	2.2	U	2.2	U	2.4	U	2.4	U
Endosulfan I	2	U	2.2	U	2.2	U	2.4	U	2.4	U
Dieldrin	2	J	4.3	U	4.2	U	4.6	U	34	
4,4'-DDE	3.9	U	4.3	U	4.2	U	4.6	U	4.6	U
Endrin	3.1	J	4.3	U	4.2	U	4.6	U	34	
Endosulfan II	1.2	J	4.3	U	4.2	U	4.6	U	4.6	U
4,4'-DDD	6.8		2.8	J	4.2	U	4.6	U	1.2	J
Endosulfan sulfate	1.6	J	4.3	U	4.2	U	4.6	U	4.6	U
4,4'-DDT	6.9	J	4.3	U	4.2	U	4.6	U	31	J
Methoxychlor	20	J	22	U	22	U	24	U	24	U
Endrin ketone	3.2	J	4.3	U	4.2	U	0.13	J	4.6	U
Endrin aldehyde	3.9	U	4.3	U	4.2	U	4.6	U	1.2	J
alpha-Chlordane	0.79	J	2.2	U	2.2	U	2.4	U	2.4	U
gamma-Chlordane	2	U	2.2	U	2.2	U	2.4	U	2.4	U
Toxaphene	200	U	220	U	220	U	240	U	240	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E3HC9MSD		E3HD0		E3HD1		E3HD2		E3HD3	
Sampling Location :	SS-4		SS-5		SS-6		SS-7		SS-8	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			11/3/2009		11/4/2009		11/4/2009		11/3/2009	
Time Sampled :										
%Moisture :	28		13		15		18		22	
pH :	7.8		7.7		8.2		8.3		7.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.4	U	2	U	2	U	2.1	U	2.2	U
beta-BHC	2.4	U	2	U	0.51	J	2.1	U	2.2	U
delta-BHC	2.4	U	2	U	2	U	2.1	U	2.2	U
gamma-BHC (Lindane)	16		2	U	2	U	2.1	U	2.2	U
Heptachlor	16		2	U	2	U	2.1	U	2.2	U
Aldrin	17		2	U	2	U	2.1	U	2.2	U
Heptachlor epoxide	2.4	U	2	U	2	U	0.072	J	2.2	U
Endosulfan I	2.4	U	2	U	2	U	2.1	U	2.2	U
Dieldrin	35		3.8	U	0.52	J	4	U	4.2	U
4,4'-DDE	4.6	U	3.8	U	8.6		0.51	J	4.2	U
Endrin	36		3.8	U	3.9	U	4	U	4.2	U
Endosulfan II	4.6	U	3.8	U	3.9	U	4	U	4.2	U
4,4'-DDD	4.6	U	3.8	U	1.6	J	4	U	4.2	U
Endosulfan sulfate	4.6	U	3.8	U	3.9	U	4	U	4.2	U
4,4'-DDT	36		3.8	U	2.3	J	4	U	4.2	U
Methoxychlor	24	U	20	U	20	U	21	U	22	U
Endrin ketone	4.6	U	3.8	U	3.9	U	4	U	4.2	U
Endrin aldehyde	1.2	J	3.8	U	3.9	U	4	U	4.2	U
alpha-Chlordane	2.4	U	2	U	0.27	J	2.1	U	2.2	U
gamma-Chlordane	2.4	U	2	U	2	U	2.1	U	2.2	U
Toxaphene	240	U	200	U	200	U	210	U	220	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	PBLKS1		PBLKS2							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	0		0							
pH :										
Dilution Factor :	1.0		1.0							
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7	U	1.7	U						
beta-BHC	1.7	U	1.7	U						
delta-BHC	1.7	U	1.7	U						
gamma-BHC (Lindane)	1.7	U	1.7	U						
Heptachlor	1.7	U	1.7	U						
Aldrin	1.7	U	1.7	U						
Heptachlor epoxide	1.7	U	1.7	U						
Endosulfan I	1.7	U	1.7	U						
Dieldrin	3.3	U	3.3	U						
4,4'-DDE	3.3	U	3.3	U						
Endrin	3.3	U	3.3	U						
Endosulfan II	3.3	U	3.3	U						
4,4'-DDD	3.3	U	3.3	U						
Endosulfan sulfate	3.3	U	3.3	U						
4,4'-DDT	3.3	U	3.3	U						
Methoxychlor	17	U	17	U						
Endrin ketone	3.3	U	3.3	U						
Endrin aldehyde	3.3	U	3.3	U						
alpha-Chlordane	1.7	U	1.7	U						
gamma-Chlordane	1.7	U	1.7	U						
Toxaphene	170	U	170	U						

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Number of Soil Samples : 8
Number of Water Samples : 0
Number of Sediment Samples : 0

Sample Number :	ABLKS1		ABLKS2		E3HC6		E3HC7		E3HC8	
Sampling Location :					SS-1		SS-2		SS-3	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :					11/2/2009		11/3/2009		11/3/2009	
Time Sampled :										
%Moisture :	0		0		15		23		22	
pH :					8.4		7.7		7.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	33	U	33	U	39	U	43	U	42	U
Aroclor-1221	33	U	33	U	39	U	43	U	42	U
Aroclor-1232	33	U	33	U	39	U	43	U	42	U
Aroclor-1242	33	U	33	U	39	U	43	U	42	U
Aroclor-1248	33	U	33	U	39	U	43	U	42	U
Aroclor-1254	33	U	33	U	39	U	43	U	42	U
Aroclor-1260	33	U	33	U	39	U	43	U	42	U
Aroclor-1262	33	U	33	U	39	U	43	U	42	U
Aroclor-1268	33	U	33	U	39	U	43	U	42	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E3HC9		E3HC9MS		E3HC9MSD		E3HD0		E3HD1	
Sampling Location :	SS-4		SS-4		SS-4		SS-5		SS-6	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/3/2009						11/3/2009		11/4/2009	
Time Sampled :										
%Moisture :	28		28		28		13		15	
pH :	7.8		7.8		7.8		7.7		8.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	46	UJ	120		130	J	38	U	39	U
Aroclor-1221	46	U	46	U	46	U	38	U	39	U
Aroclor-1232	46	U	46	U	46	U	38	U	39	U
Aroclor-1242	46	U	46	U	46	U	38	U	39	U
Aroclor-1248	46	U	46	U	46	U	38	U	39	U
Aroclor-1254	46	U	46	U	46	U	38	U	39	U
Aroclor-1260	46	U	140		130		38	U	39	U
Aroclor-1262	46	U	46	U	46	U	38	U	39	U
Aroclor-1268	46	U	46	U	46	U	38	U	39	U

Analytical Results (Qualified Data)

Case #: 39181 SDG : E3HC6
Site : HARTLAND WELL #3
Lab. : DATAC
Reviewer :
Date :

Sample Number :	E3HD2		E3HD3							
Sampling Location :	SS-7		SS-8							
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :	11/4/2009		11/3/2009							
Time Sampled :										
%Moisture :	18		22							
pH :	8.3		7.8							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	40	U	42	U						
Aroclor-1221	40	U	42	U						
Aroclor-1232	40	U	42	U						
Aroclor-1242	40	U	42	U						
Aroclor-1248	40	U	42	U						
Aroclor-1254	40	U	42	U						
Aroclor-1260	40	U	42	U						
Aroclor-1262	40	U	42	U						
Aroclor-1268	40	U	42	U						

National Functional Guidelines Report # 9

14:27 Thu, Nov 19, 2009

Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E3HC9 Location=SS-4 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
7785-70-8	1R-.alpha.-Pinene	13.3542	305.9234066274	ug/kg	JN
127-91-3	.beta.-Pinene	14.3198	13.7352125396		JN
13466-78-9	3-Carene	14.8222	22.31883491963		JN
5989-54-8	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (S)-	15.1868	8.732969499351		JN

National Functional Guidelines Report # 9

14:27 Thu, Nov 19, 2009

Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E3HD2 Location=SS-7 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
7785-70-8	1R-.alpha.-Pinene	13.3648	51.50898929263	ug/kg	JN
127-91-3	.beta.-Pinene	14.3304	136.8671304549		JN
	Unknown	15.1777	6.569073717924		J
87-44-5	Caryophyllene	21.7985	13.17709665737		JN

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HC6 Location=SS-1 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
84-65-1	9,10-Anthracenedione	13.1385	373.3023451909	ug/kg	JN
	Unknown	15.4904	258.6678311091		J
198-55-0	Perylene	17.8525	251.7402610995		JN
192-97-2	Benzo[e]pyrene	18.2512	1162.0507169		JN
220-97-3	11H-Indeno[2,1-a]phenanthrene	18.9773	242.8466027733		JN
	Unknown	21.2882	412.8901117064		J
	PNA, MW = 276	23.1083	263.2245299134		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HC7 Location=SS-2 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown	7.1471	166.1196817866	ug/kg	J
192-97-2	Benzo[e]pyrene	18.2418	90.131399959		JN

National Functional Guidelines Report # 9

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Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HC8 Location=SS-3 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	93.58575943053	ug/kg	J
	Unknown	7.1472	242.815969327		J
18435-45-5	1-Nonadecene	18.0168	359.6836089842		JN
	Unknown	20.5425	497.0963097949		J
	Unknown	21.923	104.2681822648		J
191-26-4	Dibenzo[def,mno]chrysene	22.6183	113.2942199763		JN
83-47-6	.gamma.-Sitosterol	23.2829	117.5318753155		JN
	Unknown aromatic	24.2237	116.5901741291		J

National Functional Guidelines Report # 9

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Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HC9 Location=SS-4 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	959.909777904	ug/kg	J
7785-26-4	1S-.alpha.-Pinene	4.1103	1121.462974022		JN
127-91-3	.beta.-Pinene	4.4784	149.1904823602		JN
	Unknown	7.1472	203.2659080937		J
1000159-38-9	Bicyclo[5.2.0]nonane, 2-methylene-4,8,8-trimethy	8.3743	285.9953570482		JN
	Polycyclic hydrocarbon	14.4789	116.2736122842		J
	Polycyclic hydrocarbon	14.5812	240.2762100585		J
	Polycyclic hydrocarbon	14.7039	560.9970564177		J
	Unknown	14.7857	237.3412102367		J
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,1	15.0618	408.7067380523		JN
	Polycyclic hydrocarbon	15.2356	112.7525282546		J
127-25-3	Methyl abietate	15.3072	311.4991776524		JN
	Unknown aromatic	15.4912	130.554836066		J
3310-97-2	1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6	15.5424	92.3448929884		JN
	Unknown	15.706	114.6481443642		J
	Unknown aromatic	15.9514	131.5530107323		J
	Polycyclic hydrocarbon	16.3399	98.27441680931		J
	Unknown	16.9944	571.8899808733		J
	Polycyclic hydrocarbon	17.342	1003.064806485		J
	Unknown	19.97	408.9997801562		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HD0 Location=SS-5 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	381.230377425	ug/kg	J
	Unknown	7.1431	286.041295372		J
	Unknown	19.3932	91.44978185749		J
	Unknown	22.4302	112.8502595477		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HD1 Location=SS-6 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	131.1320420247	ug/kg	J
	Unknown	12.2434	143.8481628987		J
84-65-1	9,10-Anthracenedione	13.1433	158.0100137482		JN
7683-64-9	Squalene	17.3971	106.0897928312		JN
	Unknown	17.5505	163.8756593435		J
198-55-0	Perylene	17.8674	186.4597736467		JN
1599-67-3	1-Docosene	18.0208	514.518359195		JN
192-97-2	Benzo[e]pyrene	18.256	479.3520608546		JN
198-55-0	Perylene	18.573	130.3323603216		JN
203-11-2	Indeno[1,2,3-fg]naphthacene	19.1865	126.0227456264		JN
191-26-4	Dibenzo[def,mno]chrysene	21.3032	158.250312191		JN
	Unknown	22.2133	82.84781229934		J
	Unknown	22.4587	111.4748415409		J
191-26-4	Dibenzo[def,mno]chrysene	23.1438	93.30670353869		JN
83-47-6	.gamma.-Sitosterol	23.3176	136.0680083986		JN

National Functional Guidelines Report # 9

14:27 Thu, Nov 19, 2009

Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HD2 Location=SS-7 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	83.96608662068	ug/kg	J
80-56-8	.alpha.-Pinene	4.1089	86.16847577794		JN
18172-67-3	Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-	4.477	114.6120125572		JN
2091-29-4	9-Hexadecenoic acid	12.6165	257.7712976147		JN
1000130-84-4	Z-9-Tetradecenoic acid	12.6881	498.8890221454		JN
57-10-3	n-Hexadecanoic acid	12.7596	306.3236049603		JN
	Unknown	13.0562	88.3429360872		J
17351-34-7	14-Pentadecenoic acid	13.9458	171.4551979259		JN
7683-64-9	Squalene	17.3918	161.9394404258		JN
192-97-2	Benzo[e]pyrene	18.2405	91.27546512812		JN
	Unknown	22.4432	85.426366388		J
	Unknown	23.3225	138.4831979338		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E3HD3 Location=SS-8 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown	7.1517	310.8435203764	ug/kg	J
	Unknown	22.449	131.7760142914		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E3HC6 **Case** 39181 **Contract** EPW05026 **Region** 5 **DDTID** 81215 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=SBLK99 Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown	10.1421	81.41333333333	ug/kg	J

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 20 NOV 09

FROM: Stephen L. Ostrodka, Chief (**SRT-5J**)
Superfund Field Services Section

TO: Data User: WDNR

We have reviewed the data for the following case:

SITE NAME: Hartland Well #3 (WI)

CASE NUMBER: 39181 SDG NUMBER: E3HC4

Number and Type of Samples: 8 soil samples

Sample Numbers: E3HC4-C9; D0-D3

Laboratory: ALS Data Chem Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SRT-5J**

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: E3HC6

☒ ARO ☒ PEST ☒ BNA ☐ BNASIM ☐ VT ☐ VOASIM ☒ VLM

Laboratory Name: DataChem Laboratories, Inc.

Laboratory Code: DATAC

Contract No.: EPW05026

Case No.: 39181

Analysis Price: N/A

SDG Turnaround: 14

Modified Analysis Requested: NO

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E3HC6	7) E3HD2	13)	19)
2) E3HC7	8) E3HD3	14)	20)
3) E3HC8	9)	15)	21)
4) E3HC9	10)	16)	22)
5) E3HD0	11)	17)	23)
6) E3HD1	12)	18)	24)

E3HC6

First Sample in SDG

E3HD3

Last Sample in SDG

11/04/09

First Sample Receipt Date

11/05/09

Last Sample Receipt Date

Note: *There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach the TR/COC records to this form in alphanumeric order (the order listed above on this form).*

Signature: Mark Edwards

Date: 11/13/2009

9308047

ract Laboratory Program
fic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3HC0

L

Date Shipped:	11/3/09
Carrier Name:	FedEx
Airbill:	846761795302
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: Mark Drew

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Mark Drew	11/3/09 1425	John Kurdy	11-3-09 14:30
2 John Kurdy	11-3-09 14:35	Melissa Edwards	11/4/09 1011
3			
4			

For Lab Use Only

Lab Contract No: EPW05026
Unit Price: N/A
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HC6	Soil/ Mark Drews	L/G	CLP-VOA-En (14), SVOA-L/PES (14)	5C-093001, 5C-093002, 5C-093003, 5C-093004, 5C-093005 (5)	SS-1	S: 11/2/09	8:35	ME3HC6	
E3HC7	Soil/ Mark Drews	L/G	CLP-VOA-En (14), SVOA-L/PES (14)	5C-093007, 5C-093008, 5C-093009, 5C-093010, 5C-093011 (5)	SS-2	S: 11/3/09	11:20	ME3HC7	
E3HC8	Soil/ Mark Drews	L/G	CLP-VOA-En (14), SVOA-L/PES (14)	5C-093013, 5C-093014, 5C-093015, 5C-093016, 5C-093017 (5)	SS-3	S: 11/3/09	11:40	ME3HC8	
E3HC9	Soil/ Mark Drews	L/G	CLP-VOA-En (14), SVOA-L/PES (14)	5C-093019, 5C-093020, 5C-093021, 5C-093022, 5C-093023, 5C-093024, 5C-093025, 5C-093026, 5C-093027, 5C-093028, 5C-093029 (11)	SS-4	S: 11/3/09	11:57	ME3HC9	
E3HD0	Soil/ Mark Drews	L/G	CLP-VOA-En (14), SVOA-L/PES (14)	5C-093031, 5C-093032, 5C-093033, 5C-093034, 5C-093035 (5)	SS-5	S: 11/3/09	12:21	ME3HD0	
E3HD3	Soil/ Mark Drews	L/G	CLP-VOA-En (14), SVOA-L/PES (14)	5C-093049, 5C-093050, 5C-093051, 5C-093052, 5C-093053 (5)	SS-8	S: 11/3/09	12:21	ME3HD3	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E3HC9	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4	Chain of Custody Seal Number: 138389/138390
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CLP-VOA-En = CLP-VOA-EnCore, SVOA-L/PES = CLP SVOA LOW/PEST;PCBs

TR Number: 5-004435316-110309-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

LABORATORY COPY

9309050

act Laboratory Program
ic Report & Chain of Custody Record

Case No: 39181
DAS No:
SDG No: E3H06

L

Date Shipped:	11/4/09
Carrier Name:	FedEx
Airbill:	846761795298
Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature: Mark Drew

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Mark Drew	11/4/09 1526	[illegible]	11-4-09 15:30
2 [illegible]	11-4-09 15:30	[illegible]	11/5/09 949
3			
4			

For Lab Use Only

Lab Contract No: 2PW05020
Unit Price: NA
Transfer To: 11/5/09 S
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3HD1	Soil/ Mark Drews	L/G	CLP-VOA-En (14), SVOA-L/PES (14)	5C-093037, 5C-093038, 5C-093039, 5C-093040, 5C-093041 (5)	SS-6	S: 11/4/09	9:15	ME3HD1	11/5/09 S
E3HD2	Soil/ Mark Drews	L/G	CLP-VOA-En (14), SVOA-L/PES (14)	5C-093043, 5C-093044, 5C-093045, 5C-093046, 5C-093047 (5)	SS-7	S: 11/4/09	10:15	ME3HD2	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4	Chain of Custody Seal Number: 138393/138394
				Custody Seal Intact? Y Shipment Iced? Y

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

CLP-VOA-En = CLP-VOA-EnCore, SVOA-L/PES = CLP SVOA LOW/PEST;PCBs

LABORATORY COPY

TR Number: 5-004435316-110409-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS

SDG Narrative
Low/Medium Volatiles

Contract: EPW05026
Laboratory: ALS DataChem

Case: 39181
SDG: E3HC6

EPA No.	ALS Sample	pH	Dilution	EPA No.	ALS Sample	pH	Dilution
E3HC6	9308047001	NA	None	E3HC9MS	9308047005	NA	None
E3HC7	9308047002	NA	None	E3HC9MSD	9308047006	NA	None
E3HC8	9308047003	NA	None	E3HD0	9308047007	NA	None
E3HC9	9308047004	NA	None	E3HD3	9308047008	NA	None

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There were no modifications except as listed below.

Instrumentation: Hewlett Packard 5972-S GC/MSD with electron impact ionization and quadrupole detector scanning a mass range of 35 to 300 amu. Column: J&W Scientific DB 624 (75 m, 0.53 mm id, 3 µm film). Purge & Trap: Tekmar LSC 2000 Concentrator (Vocarb trap) with Varian Archon Autosampler. Carrier and Purge Gas: Helium. Purge Flow: ~35 mL/min. at ambient. Temperature Program: 45°C (3.5 min.) 10°/min. to 220° (2.0 min.).

Sample Preparation: This method has no extraction procedure for the low level soil matrix. Soil samples were received in sample cartridges and were extruded and frozen until analysis. Prior to analysis a total of 10 mL of reagent water containing internal standard/ DMC solution was added and the sample was purged.

Instrument Calibration: The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-bromofluorobenzene as specified in the SOW. This tune is valid for 12 hours.

Initial Calibration and Calibration Verification: The five point initial calibration curve met the specified criteria in the SOW with the exception of the dioxane compounds. All calibration verification standards met method specified criteria (again excepting dioxanes). Due to interfering ions, the secondary 55 ion was used in quantifying methylcyclohexane for some instrumentation. Any manual integration is noted by an "m" footnote on the quantitation report and a graphics page was included to show peak integration. Analytes which required a manual integration are summarized:

Sample	Initial Scan	Final Scan	Analyte

Blank Analysis: Method blanks were prepared using Ottawa Sand and or reagent water spiked with internal standard/DMC solution. All blanks were free of volatile organic contaminants within the specifications of the method.

Sample Analysis: All deuterated monitoring compounds and internal standard area responses were within the required acceptance criteria unless otherwise noted on forms II and VIII. All samples were analyzed within ten days of verified sample receipt.

MS/MSD Analysis: MS/MSD analyses were performed for sample 9308047004 (E3HC9).

Sample Calculations: All symbols are defined in section 8.3 of DCL SOP OV-EP-SOM and section 11.2 of SOM01.2. RRF = $(A_xC_{is})/(A_{is}C_x)$; Water Concentration = $(A_xI_sDF)/(V_oA_{is}\underline{RRF})$; Soil Conc.= $(A_xI_sDF)/(DW_sA_{is}\underline{RRF})$; Medium Level Conc. = $(A_xI_sAV_tDF)/(A_{is}\underline{RRF}V_aW_sD)$.

Miscellaneous Comments: As per the SOW, alkanes were not reported separately but rather were reported as "total alkanes." With regard to the naming of tentatively identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has reason to assign a different name. Reasons include but are not limited to previous experience with the compound or an instance where the retention time clearly indicates that a computer generated match is in fact not the compound in question. A specific compound name may be assigned to more than one peak. In any case, TIC naming is tentative and it cannot be assumed that reported compounds and specific isomers are correct.

I certify that this sample data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature.

14-7-94

Christopher Q. Coleman
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract: EP-W-05-026
Case: 39181
SDG: E3HC6
Laboratory Name: DataChem Laboratories
DCL Set ID.: 9308047, 9309050.
Sample No.: E3HC6, E3HC7, E3HC8, E3HC9, E3HC9MS, E3HC9MSD, E3HD0, E3HD1, E3HD2, E3HD3.
General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There are no deviations from the SOW. All samples listed above are billable.

Instrumentation: Agilent GC/MS system (ID 5972-N)
Column: J&W Scientific DB-5ms column, 95% dimethyl-(5%)-diphenylsiloxane, nonpolar 30 m x 0.32 mm I.D. with a 0.50 µm film thickness

Sample Preparation: Samples were prepared as stated in the SOW.

Instrument Calibration: (i.e.DFTPP tunes) All tunes met ion intensity ratio requirements. All samples and standards were analyzed within the twelve hour CCV period.

Initial and Continuing Calibration Verification: All initial and continuing calibration standards met minimum response factor, RSD and %D criteria.

Blank Analysis: The extraction blanks met method criteria.

Sample Analysis: All samples passed internal standard area and DMC recovery QC criteria.

MS/MSD Analysis: An MS/MSD analysis was performed on Sample E3HC9.

Dilutions: A 1:3 dilution was required for Sample E3HC6.

Miscellaneous Comments: Manual edits were made in the calibration standards for a variety of miscalled peaks. Every manual integration is noted by an "m" footnote on the quantitation report, and an additional graphics page is included for each manual integration to show how the peak was integrated. In order to satisfy the requirements of Exhibit B Section 2.5.1 which asks for a listing of each instance of manual integration, these manual integrations are also listed in the table below. The explanation for each of these manual integrations is that the data system did not correctly integrate the peak in its automated data evaluation procedure. More specifically, some of the more common mis-integrated peaks are described as follows: Indeno(1,2,3-c,d)pyrene elutes near dibenz(a,h)anthracene, and a hump from the 276 ion in dibenz(a,h)anthracene sometimes needs to be manually excluded from Indeno(1,2,3-c,d)pyrene. Isomers such as anthracene and benzo(a)anthracene are often called as the similar and near-eluting phenanthrene or chrysene peak. Benzo(b) and Benzo(k)fluoranthene elute very closely to each other without baseline resolution between the two peaks. The automated peak finding routine quite often integrates both peaks as if they were one, and it is necessary to manually separate the isomers. 4-chloroaniline sometimes has the baseline drawn too high when the computer gets confused because of a

near-eluting peak causing it to think the valley between peaks is actually the baseline. Bis(2-chloroethyl)ether sometimes needs to be manually separated from the near-eluting aniline. Caprolactam has a tail, especially at higher concentrations, that is often truncated, leaving the need to manually include the tail. Some phenolics and carbazole sometimes have the need to manually include the tailing. Acetophenone sometimes needs to be manually separated from a near-eluting 3-carbon alklyated benzene TIC peak. Benzo(ghi)perylene and dibenz(a,h)anthracene will sometimes be sliced in half by the automatic integration routine and a manual integration would be needed to include the entire peak. Perylene-d12 in the SIM analysis often needs to be manually separated from the baseline arising from benzo(a)pyrene-d12, a near-eluting and considerably larger isomer peak. Sometimes the automatic peak finding routine will simply miss a peak, making it necessary to manually include it. This was the case with all analytes not mentioned above.

Sample	Analyte	RT (min)	Scan start-stop	
E3HC7	Benzo(k)fluoranthene	17.69	1354	1364
E3HC8	Benzo(b)fluoranthene	17.64	1344	1354
E3HC8	Benzo(k)fluoranthene	17.69	1354	1366
E3HC9	Benzo(b)fluoranthene	17.64	1343	1354
E3HC9	Benzo(k)fluoranthene	17.69	1354	1365
E3HC9MS	Benzo(b)fluoranthene	17.64	1344	1355
E3HC9MS	Benzo(k)fluoranthene	17.69	1355	1365
E3HC9MSD	Benzo(b)fluoranthene	17.64	1345	1353
E3HC9MSD	Benzo(k)fluoranthene	17.69	1353	1366
E3HD0	Caprolactam	6.84	285	303
E3HD0	Benzo(b)fluoranthene	17.63	1344	1354
E3HD0	Benzo(k)fluoranthene	17.70	1354	1365
E3HD3	Benzo(b)fluoranthene	17.63	1345	1354
E3HD3	Benzo(k)fluoranthene	17.69	1354	1366
E3HC6	Caprolactam	6.77	282	296
E3HC6	Benzo(b)fluoranthene	17.66	1344	1355
E3HC6	Benzo(k)fluoranthene	17.70	1355	1366
E3HD1	Benzo(b)fluoranthene	17.66	1346	1356
E3HD1	Benzo(k)fluoranthene	17.70	1356	1366
E3HD2	Benzo(b)fluoranthene	17.65	1345	1354
E3HD2	Benzo(k)fluoranthene	17.70	1354	1365
SSTD080ND	4-Chloroaniline	6.35	244	259
SSTD080ND	Caprolactam	6.88	292	319
SSTD040ND	4-Chloroaniline	6.34	242	250
SSTD040ND	Caprolactam	6.82	286	305
SSTD005ND	4-Chloroaniline	6.33	241	250

With regard to the naming of tentatively-identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has a specific reason to assign a different name. Reasons for assigning a TIC name other than the match with the highest fit value above 85% include instances in which the analyst has previous experience with respect to a specific compound. This was the case for the TICs at retention times 18.25 in Sample E3HC6, 18.24 in Sample E3HC7, 17.87 in Sample E3HD1 and 18.24 in Sample E3HD2. When the first computer-generated match is a target compound and retention time information clearly indicates the TIC is in fact not the target compound, the

analyst reserves the right to give a more appropriate tentative identification. This was the case for the TICs at retention times 22.62 in Sample E3HC8 and 21.30 and 23.14 in Sample E3HD1. In the case of the TICs at retention times 18.98 and 23.11 in Sample E3HC6 and 24.22 in Sample E3HC8, the analyst determined that the first spectral match called by the data system was inaccurate, despite having a fit value above 85%, and hence selected another naming option with a superior fit. There may be instances in which a specific compound name is assigned to more than one peak. Even though specific names will usually be given to TICs with spectral fits above 85%, it must be understood by the data user that TIC names are very tentative, and it cannot be assumed that the specific isomers reported are correct. One case where specific names are not given to spectral matches above 85% is for alkanes, because the SOW requires alkanes to be reported as either straight-chain, branched or cyclic and summarized as "total alkanes."

Results on the raw data are expressed in units of ug/mL (micrograms per milliliter of the solution that was injected onto the GC/MS system). Final results are calculated by the following equations:

Water:

$$\text{Concentration } \mu g/L = \frac{(A_x)\ (I_s)\ (V_t)\ (DF)\ (GPC)}{(A_{is})\ (\overline{RRF})\ (V_o)\ (V_i)}$$

Soil:

$$\text{Concentration } \mu g/Kg \text{ (Dry weight basis)} = \frac{(A_x)\ (I_s)\ (V_t)\ (DF)\ (GPC)}{(A_{is})\ (\overline{RRF})\ (V_i)\ (W_s)\ (D)}$$

where all variables are as defined in Exhibit D/SVOA Sections 11.2.1.6 and 9.3.4.1.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

11.16.09

Seaman W. Barker - Chemist November 16, 2009

SDG Narrative
Pesticides

Laboratory Name: DataChem Laboratories
Case: 39181
SDG: E3HC6
EPA Sample Numbers: E3HC6, E3HC7, E3HC8, E3HC9, E3HC9MS, E3HC9MSD, E3HD0, E3HD1, E3HD2, and E3HD3.
Contract Number: EP-W-05-026

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. All above samples are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within sample preparation hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All requirements for continuing calibration were met.

Sample Analysis: All samples were analyzed within SOW specified hold times.

Dilutions: No dilutions were required.

Blank Analysis: No analytes were detected in the method blank above the CRQLs.

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: All recoveries and RPDs were within established limits.

Surrogates: All samples passed SOW surrogate criteria.

Miscellaneous Comments: None.

This chart summarizes the amount (ng) of each compound in each type of standard:

	RESC##	PEM##	TOXAPH1##	TOXAPH2##	TOXAPH3##	TOXAPH4##	TOXAPH5##	INDC1##	INDC2##	INDC3##	INDC4##	INDC5##	PIBLK##
alpha-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
beta-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
delta-BHC	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
Heptachlor	0.04							0.01	0.02	0.04	0.08	0.20	
Aldrin	0.04							0.01	0.02	0.04	0.08	0.20	
Heptachlor epoxide	0.04							0.01	0.02	0.04	0.08	0.20	
Endosulfan I	0.04							0.01	0.02	0.04	0.08	0.20	
Dieldrin	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDE	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin	0.08	0.1						0.02	0.04	0.08	0.16	0.40	
Endosulfan II	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDD	0.08							0.02	0.04	0.08	0.16	0.40	
Endosulfan sulfate	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDT	0.08	0.2						0.02	0.04	0.08	0.16	0.40	
Methoxychlor	0.40	0.5						0.10	0.2	0.4	0.8	2.0	
Endrin ketone	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin aldehyde	0.08							0.02	0.04	0.08	0.16	0.40	
alpha-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
Toxaphene			1	2	4	8	20						
Tetrachloro-m-xylene	0.04	0.04	0.01	0.02	0.04	0.08	0.20	0.01	0.02	0.04	0.08	0.20	0.04
Decachlorobiphenyl	0.08	0.04	0.02	0.04	0.08	0.16	0.40	0.02	0.04	0.08	0.16	0.40	0.08

Sample equation for Endrin in PLCSS1 (1):

$$\text{Result ug/kg} = \frac{\text{(Area response of analyte)(Extract FV uL after GPC)(Dilution Factor)(GPC factor)}}{\text{(Ave CF)(uL injected)(grams of Sample)((100-\%moisture)/100))}}$$

$$2.91 \text{ ug/kg} = \frac{(21414)(5000 \text{ uL})(1)(10000/5000)}{(1230000)(2 \text{ uL})(30 \text{ g})(1)}$$

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Steven J. Sagers
Pesticide Chemist

11/15/09
Date

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS

SDG Narrative
Aroclors

Laboratory Name: ALS/DataChem
Case: 39181
SDG: E3HC6
EPA Sample Numbers: E3HC6, E3HC7, E3HC8, E3HC9, E3HC9MS, E3HC9MSD, E3HD0, E3HD1, E3HD2, and E3HD3.
Contract Number: EP-W-05-026

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. All samples listed above are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: Restek 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
Restek 0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All continuing calibration requirements were met.

Sample Analysis: The samples were all analyzed within SOW specified hold times.

Dilutions: None.

Blank Analysis: No analytes were detected in the method blank above the CRQL.

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: All of the MS and MSD results were within established limits except for a Relative Percent Difference for AR1016 on column-A.

Surrogates: All samples met surrogate recovery criteria.

Miscellaneous Comments: Sample E3HC9MSD required a manual integration, on column-B, in order to separate AR1016 peak-1.

This chart summarizes the amount (ng) of each compound in each type of standard:

	AR12213##	AR12323##	AR12423##	AR12483##	AR12543##	AR12623##	AR12683##	AR16601##	AR16602##	AR16603##	AR16604##	AR16605##	AIBLK##
AR1221	0.8												
AR1232		0.8											
AR1242			0.8										
AR1248				0.8									
AR1254					0.8								
AR1262						0.8							
AR1268							0.8						
AR1016								0.2	0.4	0.8	1.6	3.2	
AR1260								0.2	0.4	0.8	1.6	3.2	
Tetrachloro-m-xylene	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.01	0.02	0.04	0.08	0.16	0.04
Decachlorobiphenyl	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.02	0.04	0.08	0.16	0.32	0.08

Equation for Aroclors in soil samples (EQ. 9):

EQ. 9 Concentration Calculation for Soil Samples

$$\text{Concentration } \mu g/Kg \text{ (Dry weight basis)} = \frac{(A_x)\ (V_t)\ (DF)\ (GPC)}{(\overline{CF})\ (V_i)\ (W_s)\ (D)}$$

Where,

A_x = Area or height of the peak for the compound to be measured.

$\overline{CF}$ = Mean Calibration Factor from the specific five-point calibration (area/ng).

V_t = Volume of the concentrated extract in µL. (If GPC is not performed, then V_t = 10000 µL. If GPC is performed, then $V_t = V_{out}$).

V_i = Volume of extract injected in µL. (If a single injection is made onto two columns, use one half the volume in the syringe as the volume injected onto each column.)

$$D = \frac{100 - \%Moisture}{100}$$

W_s = Weight of sample extracted in g.

DF = Dilution Factor. The DF for analysis of soil/sediment samples by this method is defined as follows:

$$\frac{\mu L \text{ most concentrated extract used to make dilution} + \mu L \text{ clean solvent}}{\mu L \text{ most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Michelle Paradise 11-13-09

Michelle Paradise Date
Chemist

2C - FORM II VOA-3

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Level: (LOW/MED) LOW

ACH 2-11-10

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E3HC6	97	94	81	83	88	79	104
02	E3HC7	97	96	79	72	91	80	106
03	E3HC8	97	94	78	75	91	81	104
04	E3HC9	95	92	76	82	89	80	101
05	E3HD0	95	91	80	76	87	79	96
06	E3HD1	96	94	78	81	90	80	99
07	E3HD2	101	100	81	75	91	80	104
08	E3HD3	95	93	78	96	89	85	94
09	E3HC9MS	96	95	106	76	88	79	100
10	E3HC9MSD	98	92	109	68	89	78 *	102
11	VBLKS1	91	91	74	62	90	81	94
12	VHBLKS1	89	89	73	71	94	86	102
13								
14								
15								
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27								
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30								

	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d3	(68-122)
VDMC2 (CLA) = Chloroethane-d5	(61-130)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(45-132)
VDMC4 (BUT) = 2-Butanone-d5	(20-182)
VDMC5 (CLF) = Chloroform-d	(72-123)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(79-122)
VDMC7 (BEN) = Benzene-d6	(80-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	E3HC6	86	109	84	87	89	77	93	1
02	E3HC7	89	109	83	71	85	81	94	0
03	E3HC8	89	108	83	76	81	83	96	0
04	E3HC9	84	105	82	80	88	79	95	0
05	E3HD0	81	103	79	75	79	77	96	0
06	E3HD1	84	103	82	79	78	82	97	0
07	E3HD2	86	106	79	76	78	85	98	0
08	E3HD3	81	100	83	91	99	93	101	0
09	E3HC9MS	83	106	80	77	82	78	97	0
10	E3HC9MSD	86	108	81	70	83	75	93	1
11	VBLKS1	80	99	82	63	78	82	100	0
12	VHBLKS1	90	101	92	79	87	97	101	0
13									
14									
15									
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30									

		QC LIMITS
VDMC8	(DPA) = 1,2-Dichloropropane-d6	(74-124)
VDMC9	(TOL) = Toluene-d8	(78-121)
VDMC10	(TDP) = trans-1,3-Dichloropropene-d4	(72-130)
VDMC11	(HEX) = 2-Hexanone-d5	(17-184)
VDMC12	(DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13	(TCA) = 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14	(DCZ) = 1,2-Dichlorobenzene-d4	(70-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix Spike - EPA Sample No.: E3HC9 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
1,1-Dichloroethene	67.	0.0	77.	114	59-172
Trichloroethene	67.	0.0	65.	97	62-137
Benzene	67.	0.0	67.	99	66-142
Toluene	67.	0.0	69.	102	59-139
Chlorobenzene	67.	0.0	66.	97	60-133

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	69.	83.	119	4	0-22	59-172
Trichloroethene	69.	70.	101	5	0-24	62-137
Benzene	69.	71.	102	3	0-21	66-142
Toluene	69.	73.	105	3	0-21	59-139
Chlorobenzene	69.	69.	99	2	0-21	60-133

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Lab File ID: SY88BLK

Lab Sample ID: 123450

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL

Date Analyzed: 11/11/2009

Level: (TRACE or LOW/MED) LOW

Time Analyzed: 09:34

GC Column: DB624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E3HC6	9308047001	SY89C001	10:06
02	E3HC7	9308047002	SY90C002	10:38
03	E3HC8	9308047003	SY91C003	11:09
04	E3HC9	9308047004	SY92C004	11:41
05	E3HC9MS	9308047005	SY93C005	12:13
06	E3HC9MSD	9308047006	SY94C006	12:45
07	E3HD0	9308047007	SY95C007	13:18
08	E3HD3	9308047008	SY96C008	13:50
09	E3HD1	9309050001	SY97C001	14:22
10	E3HD2	9309050002	SY98C002	14:54
11	VHBLKS1	123451	SY99BLK	15:27
12				
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COMMENTS: _____

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column: DB624 ID: 0.53 (mm) Init. Calib. Date(s): 05/28/2009 05/28/2009

EPA Sample No.(VSTD#####): VSTD050S1 Date Analyzed: 11/11/2009

Lab File ID (Standard): SY87S50 Time Analyzed: 09:02

Instrument ID: 5972-S Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	756426	11.91	798046	7.89	523704	15.29
	UPPER LIMIT	1512852	12.41	1596092	8.39	1047408	15.79
	LOWER LIMIT	378213	11.41	399023	7.39	261852	14.79
	EPA SAMPLE NO.						
01	VBLKS1	756701	11.91	792789	7.89	536139	15.29
02	E3HC6	658531	11.91	778615	7.88	357236	15.30
03	E3HC7	639238	11.91	759891	7.89	325206	15.30
04	E3HC8	647350	11.92	756886	7.89	360364	15.30
05	E3HC9	668711	11.92	758910	7.90	372246	15.30
06	E3HC9MS	681959	11.91	769162	7.89	367564	15.30
07	E3HC9MSD	671436	11.92	775296	7.90	370333	15.30
08	E3HD0	748817	11.91	821326	7.90	456015	15.29
09	E3HD3	749921	11.92	795059	7.90	510535	15.30
10	E3HD1	667022	11.93	742005	7.90	383750	15.31
11	E3HD2	632696	11.93	735085	7.91	347086	15.31
12	VHBLKS1	734116	11.93	823843	7.90	493618	15.31
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC6

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 9308047001

Sample wt/vol: 5.30 (g/mL) g

Lab File ID: SY89C001

Level: (TRACE/LOW/MED) LOW

Date Received: 11/04/2009

% Moisture: not dec. 15.

Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
67-64-1	Acetone	11.	U
75-15-0	Carbon disulfide	5.6 ~~0.46~~	~~JB~~ U
79-20-9	Methyl acetate	5.6	U
75-09-2	Methylene chloride	0.89	J
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
110-82-7	Cyclohexane	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
71-43-2	Benzene	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047001

Sample wt/vol: 5.30 (g/mL) g Lab File ID: SY89C001

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 15. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.6	U
108-87-2	Methylcyclohexane	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.32	J
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
100-41-4	Ethylbenzene	5.6	U
95-47-6	o-Xylene	5.6	U
179601-23-1	m,p-Xylene	0.14	J
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HC6

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 9308047001

Sample wt/vol: 5.30 (g/mL) g

Lab File ID: SY89C001

Level: (TRACE or LOW/MED) LOW

Date Received: 11/04/2009

% Moisture: not dec. 15.

Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047002

Sample wt/vol: 5.39 (g/mL) g Lab File ID: SY90C002

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 23. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.0	U
74-87-3	Chloromethane	6.0	U
75-01-4	Vinyl chloride	6.0	U
74-83-9	Bromomethane	6.0	U
75-00-3	Chloroethane	6.0	U
75-69-4	Trichlorofluoromethane	6.0	U
75-35-4	1,1-Dichloroethene	6.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U
67-64-1	Acetone	12.	U
75-15-0	Carbon disulfide	6.0 ~~0.51~~	JB U
79-20-9	Methyl acetate	6.0	U
75-09-2	Methylene chloride	0.18	J
156-60-5	trans-1,2-Dichloroethene	6.0	U
1634-04-4	Methyl tert-butyl ether	6.0	U
75-34-3	1,1-Dichloroethane	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	6.0	U
67-66-3	Chloroform	6.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
110-82-7	Cyclohexane	6.0	U
56-23-5	Carbon tetrachloride	6.0	U
71-43-2	Benzene	6.0	U
107-06-2	1,2-Dichloroethane	6.0	U
123-91-1	1,4-Dioxane	120	U

95 2.3-1

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047002

Sample wt/vol: 5.39 (g/mL) g Lab File ID: SY90C002

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 23. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.0	U
108-87-2	Methylcyclohexane	6.0	U
78-87-5	1,2-Dichloropropane	6.0	U
75-27-4	Bromodichloromethane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	0.23	J
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
127-18-4	Tetrachloroethene	6.0	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	6.0	U
106-93-4	1,2-Dibromoethane	6.0	U
108-90-7	Chlorobenzene	6.0	U
100-41-4	Ethylbenzene	6.0	U
95-47-6	o-Xylene	6.0	U
179601-23-1	m,p-Xylene	6.0	U
100-42-5	Styrene	6.0	U
75-25-2	Bromoform	6.0	U
98-82-8	Isopropylbenzene	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
95-50-1	1,2-Dichlorobenzene	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HC7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047002

Sample wt/vol: 5.39 (g/mL) g Lab File ID: SY90C002

Level: (TRACE or LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 23. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: E3HC8

Lab Name: ALS DataChem
Contract: EPW05026
Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: 9308047003
Sample wt/vol: 5.07 (g/mL) g
Lab File ID: SY91C003
Level: (TRACE/LOW/MED) LOW
Date Received: 11/04/2009
% Moisture: not dec. 22.
Date Analyzed: 11/11/2009
GC Column: DB624 ID: 0.53 (mm)
Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)
Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.3	U
74-87-3	Chloromethane	6.3	U
75-01-4	Vinyl chloride	6.3	U
74-83-9	Bromomethane	6.3	U
75-00-3	Chloroethane	6.3	U
75-69-4	Trichlorofluoromethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.3	U
67-64-1	Acetone	13.	U
75-15-0	Carbon disulfide	6.3 ~~0.56~~	~~JB~~ 4
79-20-9	Methyl acetate	6.3	U
75-09-2	Methylene chloride	6.3	U
156-60-5	trans-1,2-Dichloroethene	6.3	U
1634-04-4	Methyl tert-butyl ether	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
110-82-7	Cyclohexane	6.3	U
56-23-5	Carbon tetrachloride	6.3	U
71-43-2	Benzene	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
123-91-1	1,4-Dioxane	130	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047003

Sample wt/vol: 5.07 (g/mL) g Lab File ID: SY91C003

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 22. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.3	U
108-87-2	Methylcyclohexane	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U
75-27-4	Bromodichloromethane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	0.26	J
10061-02-6	trans-1,3-Dichloropropene	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
127-18-4	Tetrachloroethene	6.3	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.3	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
100-41-4	Ethylbenzene	6.3	U
95-47-6	o-Xylene	6.3	U
179601-23-1	m,p-Xylene	6.3	U
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropylbenzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3	U
96-12-8	1,2-Dibromo-3-chloropropane	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HC8

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 9308047003

Sample wt/vol: 5.07 (g/mL) g

Lab File ID: SY91C003

Level: (TRACE or LOW/MED) LOW

Date Received: 11/04/2009

% Moisture: not dec. 22.

Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047004

Sample wt/vol: 4.73 (g/mL) g Lab File ID: SY92C004

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 28. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.4	U
74-87-3	Chloromethane	7.4	U
75-01-4	Vinyl chloride	7.4	U
74-83-9	Bromomethane	7.4	U
75-00-3	Chloroethane	7.4	U
75-69-4	Trichlorofluoromethane	7.4	U
75-35-4	1,1-Dichloroethene	7.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.4	U
67-64-1	Acetone	15.	U
75-15-0	Carbon disulfide	7.4	U
79-20-9	Methyl acetate	7.4	U
75-09-2	Methylene chloride	7.4	U
156-60-5	trans-1,2-Dichloroethene	7.4	U
1634-04-4	Methyl tert-butyl ether	7.4	U
75-34-3	1,1-Dichloroethane	7.4	U
156-59-2	cis-1,2-Dichloroethene	7.4	U
78-93-3	2-Butanone	15.	U
74-97-5	Bromochloromethane	7.4	U
67-66-3	Chloroform	7.4	U
71-55-6	1,1,1-Trichloroethane	7.4	U
110-82-7	Cyclohexane	7.4	U
56-23-5	Carbon tetrachloride	7.4	U
71-43-2	Benzene	7.4	U
107-06-2	1,2-Dichloroethane	7.4	U
123-91-1	1,4-Dioxane	150	U

Report 1,4-Dioxane for Low-Medium VOA analysis only.

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 9308047004

Sample wt/vol: 4.73 (g/mL) g

Lab File ID: SY92C004

Level: (TRACE/LOW/MED) LOW

Date Received: 11/04/2009

% Moisture: not dec. 28.

Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	7.4	U
108-87-2	Methylcyclohexane	7.4	U
78-87-5	1,2-Dichloropropane	7.4	U
75-27-4	Bromodichloromethane	7.4	U
10061-01-5	cis-1,3-Dichloropropene	7.4	U
108-10-1	4-Methyl-2-Pentanone	15.	U
108-88-3	Toluene	7.4	U
10061-02-6	trans-1,3-Dichloropropene	7.4	U
79-00-5	1,1,2-Trichloroethane	7.4	U
127-18-4	Tetrachloroethene	7.4	U
591-78-6	2-Hexanone	15.	U
124-48-1	Dibromochloromethane	7.4	U
106-93-4	1,2-Dibromoethane	7.4	U
108-90-7	Chlorobenzene	7.4	U
100-41-4	Ethylbenzene	7.4	U
95-47-6	o-Xylene	7.4	U
179601-23-1	m,p-Xylene	7.4	U
100-42-5	Styrene	7.4	U
75-25-2	Bromoform	7.4	U
98-82-8	Isopropylbenzene	7.4	U
79-34-5	1,1,2,2-Tetrachloroethane	7.4	U
541-73-1	1,3-Dichlorobenzene	7.4	U
106-46-7	1,4-Dichlorobenzene	7.4	U
95-50-1	1,2-Dichlorobenzene	7.4	U
96-12-8	1,2-Dibromo-3-chloropropane	7.4	U
120-82-1	1,2,4-Trichlorobenzene	7.4	U
87-61-6	1,2,3-Trichlorobenzene	7.4	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HC9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047004

Sample wt/vol: 4.73 (g/mL) g Lab File ID: SY92C004

Level: (TRACE or LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 28. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	7785-70-8	1R-.alpha.-Pinene	13.35	310	JN
02	127-91-3	.beta.-Pinene	14.32	14.	JN
03	13466-78-9	3-Carene	14.82	22.	JN
04	5989-54-8	Cyclohexene, 1-methyl-4-(1-methylethenyl	15.19	8.7	JN
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MS

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047005

Sample wt/vol: 5.18 (g/mL) g Lab File ID: SY93C005

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 28. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	77.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U
67-64-1	Acetone	13.	U
75-15-0	Carbon disulfide	6.7	U
79-20-9	Methyl acetate	6.7	U
75-09-2	Methylene chloride	6.7	U
156-60-5	trans-1,2-Dichloroethene	6.7	U
1634-04-4	Methyl tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.7	U
67-66-3	Chloroform	6.7	U
71-55-6	1,1,1-Trichloroethane	6.7	U
110-82-7	Cyclohexane	6.7	U
56-23-5	Carbon tetrachloride	6.7	U
71-43-2	Benzene	67.	
107-06-2	1,2-Dichloroethane	6.7	U
123-91-1	1,4-Dioxane	130	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MS

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047005

Sample wt/vol: 5.18 (g/mL) g Lab File ID: SY93C005

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 28. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	65.	
108-87-2	Methylcyclohexane	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	69.	
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
127-18-4	Tetrachloroethene	6.7	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	66.	
100-41-4	Ethylbenzene	6.7	U
95-47-6	o-Xylene	6.7	U
179601-23-1	m,p-Xylene	6.7	U
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropylbenzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MSD

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 9308047006

Sample wt/vol: 5.03 (g/mL) g

Lab File ID: SY94C006

Level: (TRACE/LOW/MED) LOW

Date Received: 11/04/2009

% Moisture: not dec. 28.

Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.9	U
74-87-3	Chloromethane	6.9	U
75-01-4	Vinyl chloride	6.9	U
74-83-9	Bromomethane	6.9	U
75-00-3	Chloroethane	6.9	U
75-69-4	Trichlorofluoromethane	6.9	U
75-35-4	1,1-Dichloroethene	83.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.9	U
67-64-1	Acetone	14.	U
75-15-0	Carbon disulfide	6.9	U
79-20-9	Methyl acetate	6.9	U
75-09-2	Methylene chloride	0.29	J
156-60-5	trans-1,2-Dichloroethene	6.9	U
1634-04-4	Methyl tert-butyl ether	6.9	U
75-34-3	1,1-Dichloroethane	6.9	U
156-59-2	cis-1,2-Dichloroethene	6.9	U
78-93-3	2-Butanone	14.	U
74-97-5	Bromochloromethane	6.9	U
67-66-3	Chloroform	6.9	U
71-55-6	1,1,1-Trichloroethane	6.9	U
110-82-7	Cyclohexane	6.9	U
56-23-5	Carbon tetrachloride	6.9	U
71-43-2	Benzene	71.	
107-06-2	1,2-Dichloroethane	6.9	U
123-91-1	1,4-Dioxane	140	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MSD

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047006

Sample wt/vol: 5.03 (g/mL) g Lab File ID: SY94C006

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 28. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	70.	
108-87-2	Methylcyclohexane	6.9	U
78-87-5	1,2-Dichloropropane	6.9	U
75-27-4	Bromodichloromethane	6.9	U
10061-01-5	cis-1,3-Dichloropropene	6.9	U
108-10-1	4-Methyl-2-Pentanone	14.	U
108-88-3	Toluene	73.	
10061-02-6	trans-1,3-Dichloropropene	6.9	U
79-00-5	1,1,2-Trichloroethane	6.9	U
127-18-4	Tetrachloroethene	6.9	U
591-78-6	2-Hexanone	14.	U
124-48-1	Dibromochloromethane	6.9	U
106-93-4	1,2-Dibromoethane	6.9	U
108-90-7	Chlorobenzene	69.	
100-41-4	Ethylbenzene	6.9	U
95-47-6	o-Xylene	6.9	U
179601-23-1	m,p-Xylene	6.9	U
100-42-5	Styrene	6.9	U
75-25-2	Bromoform	6.9	U
98-82-8	Isopropylbenzene	6.9	U
79-34-5	1,1,2,2-Tetrachloroethane	6.9	U
541-73-1	1,3-Dichlorobenzene	6.9	U
106-46-7	1,4-Dichlorobenzene	6.9	U
95-50-1	1,2-Dichlorobenzene	6.9	U
96-12-8	1,2-Dibromo-3-chloropropane	6.9	U
120-82-1	1,2,4-Trichlorobenzene	6.9	U
87-61-6	1,2,3-Trichlorobenzene	6.9	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD0

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 9308047007

Sample wt/vol: 4.97 (g/mL) g

Lab File ID: SY95C007

Level: (TRACE/LOW/MED) LOW

Date Received: 11/04/2009

% Moisture: not dec. 13.

Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
67-64-1	Acetone	12.	U
75-15-0	Carbon disulfide	5.8 ~~0.48~~	~~JB~~ U
79-20-9	Methyl acetate	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
110-82-7	Cyclohexane	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
71-43-2	Benzene	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047007

Sample wt/vol: 4.97 (g/mL) g Lab File ID: SY95C007

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 13. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.8	U
108-87-2	Methylcyclohexane	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	0.22	J
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
100-41-4	Ethylbenzene	5.8	U
95-47-6	o-Xylene	5.8	U
179601-23-1	m,p-Xylene	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD0

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 9308047007

Sample wt/vol: 4.97 (g/mL) g

Lab File ID: SY95C007

Level: (TRACE or LOW/MED) LOW

Date Received: 11/04/2009

% Moisture: not dec. 13.

Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050001

Sample wt/vol: 6.00 (g/mL) g Lab File ID: SY97C001

Level: (TRACE/LOW/MED) LOW Date Received: 11/05/2009

% Moisture: not dec. 15. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.9	U
74-87-3	Chloromethane	4.9	U
75-01-4	Vinyl chloride	4.9	U
74-83-9	Bromomethane	4.9	U
75-00-3	Chloroethane	4.9	U
75-69-4	Trichlorofluoromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	U
67-64-1	Acetone	9.8	U
75-15-0	Carbon disulfide	4.9 ~~0.47~~	~~JB~~ M
79-20-9	Methyl acetate	4.9	U
75-09-2	Methylene chloride	4.9	U
156-60-5	trans-1,2-Dichloroethene	4.9	U
1634-04-4	Methyl tert-butyl ether	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U
156-59-2	cis-1,2-Dichloroethene	4.9	U
78-93-3	2-Butanone	9.8	U
74-97-5	Bromochloromethane	4.9	U
67-66-3	Chloroform	4.9	U
71-55-6	1,1,1-Trichloroethane	4.9	U
110-82-7	Cyclohexane	4.9	U
56-23-5	Carbon tetrachloride	4.9	U
71-43-2	Benzene	4.9	U
107-06-2	1,2-Dichloroethane	4.9	U
123-91-1	1,4-Dioxane	98.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050001

Sample wt/vol: 6.00 (g/mL) g Lab File ID: SY97C001

Level: (TRACE/LOW/MED) LOW Date Received: 11/05/2009

% Moisture: not dec. 15. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.9	U
108-87-2	Methylcyclohexane	4.9	U
78-87-5	1,2-Dichloropropane	4.9	U
75-27-4	Bromodichloromethane	4.9	U
10061-01-5	cis-1,3-Dichloropropene	4.9	U
108-10-1	4-Methyl-2-Pentanone	9.8	U
108-88-3	Toluene	0.25	J
10061-02-6	trans-1,3-Dichloropropene	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U
127-18-4	Tetrachloroethene	4.9	U
591-78-6	2-Hexanone	9.8	U
124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U
108-90-7	Chlorobenzene	4.9	U
100-41-4	Ethylbenzene	4.9	U
95-47-6	o-Xylene	4.9	U
179601-23-1	m,p-Xylene	4.9	U
100-42-5	Styrene	4.9	U
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U
541-73-1	1,3-Dichlorobenzene	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050001

Sample wt/vol: 6.00 (g/mL) g Lab File ID: SY97C001

Level: (TRACE or LOW/MED) LOW Date Received: 11/05/2009

% Moisture: not dec. 15. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050002

Sample wt/vol: 5.61 (g/mL) g Lab File ID: SY98C002

Level: (TRACE/LOW/MED) LOW Date Received: 11/05/2009

% Moisture: not dec. 18. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
67-64-1	Acetone	11.	U
75-15-0	Carbon disulfide	5.4 ~~0.51~~	~~JB~~ M
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
110-82-7	Cyclohexane	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
71-43-2	Benzene	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

2-3-10

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050002

Sample wt/vol: 5.61 (g/mL) g Lab File ID: SY98C002

Level: (TRACE/LOW/MED) LOW Date Received: 11/05/2009

% Moisture: not dec. 18. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.4	U
108-87-2	Methylcyclohexane	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.18	J
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
100-41-4	Ethylbenzene	5.4	U
95-47-6	o-Xylene	5.4	U
179601-23-1	m,p-Xylene	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050002

Sample wt/vol: 5.61 (g/mL) g Lab File ID: SY98C002

Level: (TRACE or LOW/MED) LOW Date Received: 11/05/2009

% Moisture: not dec. 18. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	7785-70-8	1R-.alpha.-Pinene	13.36	52.	JN
02	127-91-3	.beta.-Pinene	14.33	140	JN
03	~~138-86-3~~	~~Limonene~~ Unknown	~~1~~5.18	6.6	J~~N~~
04	87-44-5	Caryophyllene	21.80	13.	JN
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

SM 2-16-10

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047008

Sample wt/vol: 5.02 (g/mL) g Lab File ID: SY96C008

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 22. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
67-64-1	Acetone	13.	U
75-15-0	Carbon disulfide	6.4 ~~0.53~~	~~J~~B 4
79-20-9	Methyl acetate	6.4	U
75-09-2	Methylene chloride	0.27	J
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
110-82-7	Cyclohexane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
71-43-2	Benzene	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
123-91-1	1,4-Dioxane	130	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

BT 2-3-11

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047008

Sample wt/vol: 5.02 (g/mL) g Lab File ID: SY96C008

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 22. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.4	U
108-87-2	Methylcyclohexane	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	6.4	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	6.4	U
95-47-6	o-Xylene	6.4	U
179601-23-1	m,p-Xylene	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047008

Sample wt/vol: 5.02 (g/mL) g Lab File ID: SY96C008

Level: (TRACE or LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. 22. Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 123450

Sample wt/vol: 5.00 (g/mL) g

Lab File ID: SY88BLK

Level: (TRACE/LOW/MED) LOW

Date Received: _____

% Moisture: not dec. 0.0

Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	0.45	J
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 123450

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SY88BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	J
87-61-6	1,2,3-Trichlorobenzene	0.65	J

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 123450

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SY88BLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 123451

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SY99BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 123451

Sample wt/vol: 5.00 (g/mL) g

Lab File ID: SY99BLK

Level: (TRACE/LOW/MED) LOW

Date Received: _____

% Moisture: not dec. 0.0

Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 123451

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SY99BLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 11/11/2009

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
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19					
20					
21					
22					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

2J - FORM II SV-3

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	E3HC6	65	69	65	40	70	63	61	5
02	E3HC7	70	57	62	61	65	66	66	8
03	E3HC8	67	65	70	70	64	66	63	13
04	E3HC9	70	80	88	74	91	85	82	19
05	E3HD0	76	62	72	68	72	62	72	19
06	E3HD1	86	84	80	52	97	89	76	6
07	E3HD2	75	71	75	46	81	78	73	16
08	E3HD3	96	79	86	76	82	94	82	22
09	E3HC9MS	89	82	87	72	85	82	76	12
10	E3HC9MSD	99	91	81	74	84	71	79	17
11	SBLK13	75	67	71	72	73	67	65	85
12	SBLK99	85	81	81	81	76	83	76	99
13									
14									
15									
16									
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30									

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(17-103)
SDMC2 (BCE) = Bis(2-chloroethyl)ether-d8	(12-98)
SDMC3 (2CP) = 2-Chlorophenol-d4	(13-101)
SDMC4 (4MP) = 4-Methylphenol-d8	(8-100)
SDMC5 (NBZ) = Nitrobenzene-d5	(16-103)
SDMC6 (2NP) = 2-Nitrophenol-d4	(16-104)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(23-104)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

2K - FORM II SV-4

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	E3HC6	73	75	63	80	36	68	73	86	0
02	E3HC7	84	76	81	78	78	73	66	78	0
03	E3HC8	78	73	75	82	65	76	63	69	0
04	E3HC9	84	96	102	96	80	95	73	86	0
05	E3HD0	94	82	97	90	84	79	78	93	0
06	E3HD1	92	85	93	93	53	92	72	91	0
07	E3HD2	76	68	75	77	44	75	64	72	0
08	E3HD3	97	98 *	112	92	86	88	84	95	1
09	E3HC9MS	95	82	101	82	80	88	90	86	0
10	E3HC9MSD	98	95	110	92	79	93	90	94	0
11	SBLK13	72	66	67	68	62	73	69	62	0
12	SBLK99	76	75	83	77	80	79	77	79	0
13										
14										
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	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(43-111)
SDMC10 (ACY) = Acenaphthylene-d8	(20-97)
SDMC11 (4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12 (FLR) = Fluorene-d10	(40-108)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14 (ANC) = Anthracene-d10	(22-98)
SDMC15 (PYR) = Pyrene-d10	(51-120)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

3D - FORM III SV-2

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix Spike - EPA Sample No.: E3HC9 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
Phenol	1800	20.	1900	101 *	26-90
2-Chlorophenol	1800	0.0	1700	95	25-102
N-Nitroso-di-n-propylamine	1800	0.0	1600	88	41-126
4-Chloro-3-methylphenol	1800	0.0	1600	90	26-103
Acenaphthene	1800	0.0	1600	86	31-137
4-Nitrophenol	1800	0.0	2500	135 *	11-114
2,4-Dinitrotoluene	1800	0.0	1500	80	28-89
Pentachlorophenol	1800	0.0	1900	103	17-109
Pyrene	1800	43.	1500	83	35-142

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
Phenol	1800	2000	110 *	8	0-35	26-90
2-Chlorophenol	1800	1700	89	6	0-50	25-102
N-Nitroso-di-n-propylamine	1800	1600	89	2	0-38	41-126
4-Chloro-3-methylphenol	1800	1500	83	8	0-33	26-103
Acenaphthene	1800	1500	82	5	0-19	31-137
4-Nitrophenol	1800	2600	143 *	6	0-50	11-114
2,4-Dinitrotoluene	1800	1600	87	8	0-47	28-89
Pentachlorophenol	1800	2100	112 *	8	0-47	17-109
Pyrene	1800	1600	85	3	0-36	35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits

Spike Recovery: 5 out of 18 outside limits

COMMENTS: _____

4C - FORM IV SV

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK99

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Lab File ID: NXR15BLK Lab Sample ID: 122699

Instrument ID: 5972-N Date Extracted: 11/05/2009

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 11/12/2009

Level: (LOW/MED) LOW Time Analyzed: 18:22

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E3HC6	9308047001	NXR26C01	11/13/2009
02	E3HC7	9308047002	NXR19C02	11/12/2009
03	E3HC8	9308047003	NXR20C03	11/12/2009
04	E3HC9	9308047004	NXR21C04	11/12/2009
05	E3HC9MS	9308047005	NXR22M05	11/12/2009
06	E3HC9MSD	9308047006	NXR23M06	11/12/2009
07	E3HD0	9308047007	NXR24C07	11/12/2009
08	E3HD3	9308047008	NXR25C08	11/12/2009
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COMMENTS: _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK13

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Lab File ID: NXR17BLK

Lab Sample ID: 122899

Instrument ID: 5972-N

Date Extracted: 11/07/2009

Matrix: (SOIL/SED/WATER) SOIL

Date Analyzed: 11/12/2009

Level: (LOW/MED) LOW

Time Analyzed: 19:33

Extraction: (Type) SONC

GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E3HD1	9309050001	NXR27C01	11/13/2009
02	E3HD2	9309050002	NXR28C02	11/13/2009
03				
04				
05				
06				
07				
08				
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COMMENTS:

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 10/21/2009 10/21/2009

EPA Sample No.(SSTD020##): SSTD020R3 Date Analyzed: 11/12/2009

Lab File ID (Standard): NXR13S20 Time Analyzed: 17:12

Instrument ID: 5972-N

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	968078		4.76		3430442		6.25		1516021		8.97	
	UPPER LIMIT	1936156		5.26		6860884		6.75		3032042		9.47	
	LOWER LIMIT	484039		4.26		1715221		5.75		758011		8.47	
	EPA SAMPLE NO.												
01	SBLK99	817369		4.76		2790380		6.25		1419383		8.96	
02	SBLK13	696077		4.75		2315954		6.23		1148581		8.95	
03	E3HC7	871839		4.75		2830421		6.24		1456876		8.96	
04	E3HC8	784480		4.75		2650575		6.24		1356790		8.96	
05	E3HC9	850574		4.75		2871633		6.24		1309599		8.96	
06	E3HC9MS	782828		4.76		2950305		6.23		1301525		8.95	
07	E3HC9MSD	825078		4.75		3108027		6.24		1353391		8.96	
08	E3HD0	831460		4.75		2977791		6.23		1350054		8.95	
09	E3HD3	829918		4.76		2878305		6.23		1410691		8.95	
10	E3HC6	732437		4.75		2497837		6.24		1206248		8.96	
11	E3HD1	782744		4.76		2661584		6.23		1253123		8.95	
12	E3HD2	698529		4.75		2374846		6.24		1255437		8.96	
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS DataChem
Contract: EPW05026
Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6
EPA Sample No.(SSTD020##): SSTD020R3
Date Analyzed: 11/12/2009
Lab File ID (Standard): NXR13S20
Time Analyzed: 17:12
Instrument ID: 5972-N
GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2360658	11.64	2271340	15.80	2521032	18.52
	UPPER LIMIT	4721316	12.14	4542680	16.30	5042064	19.02
	LOWER LIMIT	1180329	11.14	1135670	15.30	1260516	18.02
	EPA SAMPLE NO.						
01	SBLK99	2116848	11.64	1939591	15.80	1998338	18.51
02	SBLK13	1733700	11.63	1515767	15.79	1685174	18.51
03	E3HC7	2150840	11.63	2299369	15.79	2558871	18.51
04	E3HC8	2126862	11.63	2241275	15.79	2484544	18.51
05	E3HC9	2009630	11.63	2193464	15.79	2456128	18.51
06	E3HC9MS	2075995	11.63	1972701	15.79	2372875	18.50
07	E3HC9MSD	2144389	11.64	2125003	15.79	2392779	18.51
08	E3HD0	2183387	11.63	2243844	15.78	2285561	18.50
09	E3HD3	2187315	11.63	2312933	15.79	2548325	18.51
10	E3HC6	2129240	11.63	1945030	15.80	2140203	18.52
11	E3HD1	2007771	11.63	2103268	15.79	2035469	18.52
12	E3HD2	2014489	11.62	2130585	15.79	1651017	18.51
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047001

Sample wt/vol: 30.7 (g/mL) g Lab File ID: NXR26C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/13/2009

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 3.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	38.	J
108-95-2	Phenol	38.	J
111-44-4	Bis(2-chloroethyl)ether	590	U
95-57-8	2-Chlorophenol	590	U
95-48-7	2-Methylphenol	590	U
108-60-1	2,2'-Oxybis(1-chloropropane)	590	U
98-86-2	Acetophenone	160	J
106-44-5	4-Methylphenol	590	U
621-64-7	N-Nitroso-di-n-propylamine	590	U
67-72-1	Hexachloroethane	590	U
98-95-3	Nitrobenzene	590	U
78-59-1	Isophorone	590	U
88-75-5	2-Nitrophenol	590	U
105-67-9	2,4-Dimethylphenol	590	U
111-91-1	Bis(2-chloroethoxy)methane	590	U
120-83-2	2,4-Dichlorophenol	590	U
91-20-3	Naphthalene	590	U
106-47-8	4-Chloroaniline	590	U
87-68-3	Hexachlorobutadiene	590	U
105-60-2	Caprolactam	44.	J
59-50-7	4-Chloro-3-methylphenol	590	U
91-57-6	2-Methylnaphthalene	590	U
77-47-4	Hexachlorocyclopentadiene	590	U
88-06-2	2,4,6-Trichlorophenol	590	U
95-95-4	2,4,5-Trichlorophenol	590	U
92-52-4	1,1'-Biphenyl	590	U
91-58-7	2-Chloronaphthalene	590	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	590	U
606-20-2	2,6-Dinitrotoluene	590	U
208-96-8	Acenaphthylene	590	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	69.	J

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047001

Sample wt/vol: 30.7 (g/mL) g Lab File ID: NXR26C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/13/2009

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 3.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	26.	J
121-14-2	2,4-Dinitrotoluene	590	U
84-66-2	Diethylphthalate	590	U
86-73-7	Fluorene	81.	J
7005-72-3	4-Chlorophenyl-phenylether	590	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine[1]	590	U
95-94-3	1,2,4,5-Tetrachlorobenzene	590	U
101-55-3	4-Bromophenyl-phenylether	590	U
118-74-1	Hexachlorobenzene	590	U
1912-24-9	Atrazine	590	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	1500	
120-12-7	Anthracene	190	J
86-74-8	Carbazole	110	J
84-74-2	Di-n-butylphthalate	19.	J
206-44-0	Fluoranthene	3500	
129-00-0	Pyrene	2900	
85-68-7	Butylbenzylphthalate	44.	J
91-94-1	3,3'-Dichlorobenzidine	590	U
56-55-3	Benzo(a)anthracene	1400	
218-01-9	Chrysene	1900	
117-81-7	Bis(2-ethylhexyl)phthalate	130	J
117-84-0	Di-n-octylphthalate	590	U
205-99-2	Benzo(b)fluoranthene	2400	
207-08-9	Benzo(k)fluoranthene	760	
50-32-8	Benzo(a)pyrene	1600	
193-39-5	Indeno(1,2,3-cd)pyrene	1900	
53-70-3	Dibenzo(a,h)anthracene	330	J
191-24-2	Benzo(g,h,i)perylene	1900	
58-90-2	2,3,4,6-Tetrachlorophenol	590	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HC6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047001

Sample wt/vol: 30.7 (g/mL) g Lab File ID: NXR26C01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/13/2009

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 3.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	84-65-1	9,10-Anthracenedione	13.14	370	JN
02	~~27208-37-3~~	~~Cyclopenta[cd]pyrene~~ Unknown	15.49	260	~~JN~~
03	198-55-0	Perylene	17.85	250	JN
04	192-97-2	Benzo[e]pyrene	18.25	1200	JN
05	220-97-3	11H-Indeno[2,1-a]phenanthrene	18.98	240	JN
06	~~191-26-4~~	~~Dibenzo[deno]chrysene~~ Unknown	21.29	410	~~JN~~
07		PNA, MW = 276	23.11	260	J
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

SOM01.2 (6/2007)

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: NXR19C02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	23.	J
108-95-2	Phenol	16.	J
111-44-4	Bis(2-chloroethyl)ether	220	U
95-57-8	2-Chlorophenol	220	U
95-48-7	2-Methylphenol	220	U
108-60-1	2,2'-Oxybis(1-chloropropane)	220	U
98-86-2	Acetophenone	49.	J
106-44-5	4-Methylphenol	220	U
621-64-7	N-Nitroso-di-n-propylamine	220	U
67-72-1	Hexachloroethane	220	U
98-95-3	Nitrobenzene	220	U
78-59-1	Isophorone	220	U
88-75-5	2-Nitrophenol	220	U
105-67-9	2,4-Dimethylphenol	220	U
111-91-1	Bis(2-chloroethoxy)methane	220	U
120-83-2	2,4-Dichlorophenol	220	U
91-20-3	Naphthalene	220	U
106-47-8	4-Chloroaniline	220	U
87-68-3	Hexachlorobutadiene	220	U
105-60-2	Caprolactam	220	U
59-50-7	4-Chloro-3-methylphenol	220	U
91-57-6	2-Methylnaphthalene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U
92-52-4	1,1'-Biphenyl	220	U
91-58-7	2-Chloronaphthalene	220	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	220	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	8.6	J

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: NXR19C02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	220	U
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	7.1	J
86-73-7	Fluorene	8.6	J
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	220	U
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U
101-55-3	4-Bromophenyl-phenylether	220	U
118-74-1	Hexachlorobenzene	220	U
1912-24-9	Atrazine	220	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	24.	J
86-74-8	Carbazole	13.	J
84-74-2	Di-n-butylphthalate	9.6	J
206-44-0	Fluoranthene	370	
129-00-0	Pyrene	240	
85-68-7	Butylbenzylphthalate	16.	J
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	140	J
117-81-7	Bis(2-ethylhexyl)phthalate	16.	J
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	160	J
207-08-9	Benzo(k)fluoranthene	60.	J
50-32-8	Benzo(a)pyrene	130	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	J
53-70-3	Dibenzo(a,h)anthracene	27.	J
191-24-2	Benzo(g,h,i)perylene	120	J
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HC7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: NXR19C02

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~88-04-0~~	~~Chloroxylenol~~ Unknown	7.15	170	JN
02	192-97-2	Benzo[e]pyrene	18.24	90.	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: NXR20C03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	45.	J
108-95-2	Phenol	19.	J
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	76.	J
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: NXR20C03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	12.	J
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	45.	J
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	13.	J
206-44-0	Fluoranthene	140	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	28.	J
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	51.	J
218-01-9	Chrysene	77.	J
117-81-7	Bis(2-ethylhexyl)phthalate	37.	J
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	97.	J
207-08-9	Benzo(k)fluoranthene	30.	J
50-32-8	Benzo(a)pyrene	67.	J
193-39-5	Indeno(1,2,3-cd)pyrene	87.	J
53-70-3	Dibenzo(a,h)anthracene	17.	J
191-24-2	Benzo(g,h,i)perylene	75.	J
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HC8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: NXR20C03

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~88-04-0~~	~~Chloroxylen~~ol Unknown	7.15	240	JN
02	18435-45-5	1-Nonadecene	18.02	360	JN
03	~~57-88-5~~	~~Cholesterol~~ Unknown	20.54	500	JN
04	~~474-62-4~~	~~Campesterol~~ Unknown	21.92	100	JN
05	191-26-4	Dibenzo[def,mno]chrysene	22.62	110	JN
06	83-47-6	.gamma.-Sitosterol	23.28	120	JN
07		Unknown aromatic	24.22	120	J
08					
09		SS			
10		2-11-10			
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	94.	J

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: NXR21C04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	36.	J
108-95-2	Phenol	20.	J
111-44-4	Bis(2-chloroethyl)ether	230	U
95-57-8	2-Chlorophenol	230	U
95-48-7	2-Methylphenol	230	U
108-60-1	2,2'-Oxybis(1-chloropropane)	230	U
98-86-2	Acetophenone	64.	J
106-44-5	4-Methylphenol	230	U
621-64-7	N-Nitroso-di-n-propylamine	230	U
67-72-1	Hexachloroethane	230	U
98-95-3	Nitrobenzene	230	U
78-59-1	Isophorone	230	U
88-75-5	2-Nitrophenol	230	U
105-67-9	2,4-Dimethylphenol	230	U
111-91-1	Bis(2-chloroethoxy)methane	230	U
120-83-2	2,4-Dichlorophenol	230	U
91-20-3	Naphthalene	230	U
106-47-8	4-Chloroaniline	230	U
87-68-3	Hexachlorobutadiene	230	U
105-60-2	Caprolactam	230	U
59-50-7	4-Chloro-3-methylphenol	230	U
91-57-6	2-Methylnaphthalene	230	U
77-47-4	Hexachlorocyclopentadiene	230	U
88-06-2	2,4,6-Trichlorophenol	230	U
95-95-4	2,4,5-Trichlorophenol	230	U
92-52-4	1,1'-Biphenyl	230	U
91-58-7	2-Chloronaphthalene	230	U
88-74-4	2-Nitroaniline	450	U
131-11-3	Dimethylphthalate	230	U
606-20-2	2,6-Dinitrotoluene	230	U
208-96-8	Acenaphthylene	230	U
99-09-2	3-Nitroaniline	450	U
83-32-9	Acenaphthene	230	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: NXR21C04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	450	U
100-02-7	4-Nitrophenol	450	U
132-64-9	Dibenzofuran	230	U
121-14-2	2,4-Dinitrotoluene	230	U
84-66-2	Diethylphthalate	230	U
86-73-7	Fluorene	230	U
7005-72-3	4-Chlorophenyl-phenylether	230	U
100-01-6	4-Nitroaniline	450	U
534-52-1	4,6-Dinitro-2-methylphenol	450	U
86-30-6	N-Nitrosodiphenylamine[1]	230	U
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U
101-55-3	4-Bromophenyl-phenylether	230	U
118-74-1	Hexachlorobenzene	230	U
1912-24-9	Atrazine	230	U
87-86-5	Pentachlorophenol	450	U
85-01-8	Phenanthrene	20.	J
120-12-7	Anthracene	230	U
86-74-8	Carbazole	230	U
84-74-2	Di-n-butylphthalate	12.	J
206-44-0	Fluoranthene	67.	J
129-00-0	Pyrene	43.	J
85-68-7	Butylbenzylphthalate	30.	J
91-94-1	3,3'-Dichlorobenzidine	230	U
56-55-3	Benzo(a)anthracene	22.	J
218-01-9	Chrysene	34.	J
117-81-7	Bis(2-ethylhexyl)phthalate	34.	J
117-84-0	Di-n-octylphthalate	230	U
205-99-2	Benzo(b)fluoranthene	43.	J
207-08-9	Benzo(k)fluoranthene	12.	J
50-32-8	Benzo(a)pyrene	33.	J
193-39-5	Indeno(1,2,3-cd)pyrene	34.	J
53-70-3	Dibenzo(a,h)anthracene	8.7	J
191-24-2	Benzo(g,h,i)perylene	31.	J
58-90-2	2,3,4,6-Tetrachlorophenol	230	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HC9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: NXR21C04

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	7785-26-4	1S-.alpha.-Pinene	4.11	1100	JN
02	127-91-3	.beta.-Pinene	4.48	150	JN
03	~~88-04-0~~	~~Chloroxylenol~~ unknown	7.15	200	~~JN~~
04	1000159-38-9	Bicyclo[5.2.0]nonane, 2-methylene-4,8,8-	8.37	290	JN
05		Polycyclic hydrocarbon	14.48	120	J
06		Polycyclic hydrocarbon	14.58	240	J
07		Polycyclic hydrocarbon	14.70	560	J
08	~~13601-88-2~~	~~1-Phenanthrenecarboxaldehyde, 1,2,3,4,4a~~ unknown	14.79	240	~~JN~~
09	1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	15.06	410	JN
10		Polycyclic hydrocarbon	15.24	110	J
11	127-25-3	Methyl abietate	15.31	310	JN
12		Unknown aromatic	15.49	130	J
13	3310-97-2	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	15.54	92.	JN
14	~~91-84-9~~	~~Pyrilamine~~ unknown	15.71	110	~~JN~~
15		Unknown aromatic	15.95	130	J
16		Polycyclic hydrocarbon	16.34	98.	J
17	~~464-98-2~~	~~Urs-20-en-3-ol, (3.beta.,18.alpha.,19.al~~ unknown	16.99	570	~~JN~~
18		Polycyclic hydrocarbon	17.34	1000	J
19	~~16840-84-9~~	~~10-Nonadecanol~~ unknown	19.97	410	~~JN~~
20					
21					
22		SK 2-11-10			
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	960	J

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MS

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047005

Sample wt/vol: 30.6 (g/mL) g Lab File ID: NXR22M05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	110	J
108-95-2	Phenol	1900	
111-44-4	Bis(2-chloroethyl)ether	230	U
95-57-8	2-Chlorophenol	1700	
95-48-7	2-Methylphenol	230	U
108-60-1	2,2'-Oxybis(1-chloropropane)	230	U
98-86-2	Acetophenone	93.	J
106-44-5	4-Methylphenol	230	U
621-64-7	N-Nitroso-di-n-propylamine	1600	
67-72-1	Hexachloroethane	230	U
98-95-3	Nitrobenzene	230	U
78-59-1	Isophorone	230	U
88-75-5	2-Nitrophenol	230	U
105-67-9	2,4-Dimethylphenol	230	U
111-91-1	Bis(2-chloroethoxy)methane	230	U
120-83-2	2,4-Dichlorophenol	230	U
91-20-3	Naphthalene	8.1	J
106-47-8	4-Chloroaniline	230	U
87-68-3	Hexachlorobutadiene	230	U
105-60-2	Caprolactam	230	U
59-50-7	4-Chloro-3-methylphenol	1600	
91-57-6	2-Methylnaphthalene	230	U
77-47-4	Hexachlorocyclopentadiene	230	U
88-06-2	2,4,6-Trichlorophenol	230	U
95-95-4	2,4,5-Trichlorophenol	230	U
92-52-4	1,1'-Biphenyl	230	U
91-58-7	2-Chloronaphthalene	230	U
88-74-4	2-Nitroaniline	450	U
131-11-3	Dimethylphthalate	230	U
606-20-2	2,6-Dinitrotoluene	230	U
208-96-8	Acenaphthylene	230	U
99-09-2	3-Nitroaniline	450	U
83-32-9	Acenaphthene	1600	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MS

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047005

Sample wt/vol: 30.6 (g/mL) g Lab File ID: NXR22M05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	450	U
100-02-7	4-Nitrophenol	2500	
132-64-9	Dibenzofuran	230	U
121-14-2	2,4-Dinitrotoluene	1500	
84-66-2	Diethylphthalate	230	U
86-73-7	Fluorene	230	U
7005-72-3	4-Chlorophenyl-phenylether	230	U
100-01-6	4-Nitroaniline	450	U
534-52-1	4,6-Dinitro-2-methylphenol	450	U
86-30-6	N-Nitrosodiphenylamine[1]	230	U
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U
101-55-3	4-Bromophenyl-phenylether	230	U
118-74-1	Hexachlorobenzene	230	U
1912-24-9	Atrazine	230	U
87-86-5	Pentachlorophenol	1900	
85-01-8	Phenanthrene	14.	J
120-12-7	Anthracene	230	U
86-74-8	Carbazole	230	U
84-74-2	Di-n-butylphthalate	11.	J
206-44-0	Fluoranthene	50.	J
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	27.	J
91-94-1	3,3'-Dichlorobenzidine	230	U
56-55-3	Benzo(a)anthracene	21.	J
218-01-9	Chrysene	28.	J
117-81-7	Bis(2-ethylhexyl)phthalate	130	J
117-84-0	Di-n-octylphthalate	230	U
205-99-2	Benzo(b)fluoranthene	34.	J
207-08-9	Benzo(k)fluoranthene	8.6	J
50-32-8	Benzo(a)pyrene	26.	J
193-39-5	Indeno(1,2,3-cd)pyrene	29.	J
53-70-3	Dibenzo(a,h)anthracene	230	U
191-24-2	Benzo(g,h,i)perylene	29.	J
58-90-2	2,3,4,6-Tetrachlorophenol	230	U

[1]Cannot be separated from Diphenylamine

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MSD

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: NXR23M06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	120	J
108-95-2	Phenol	2000	
111-44-4	Bis(2-chloroethyl)ether	240	U
95-57-8	2-Chlorophenol	1700	
95-48-7	2-Methylphenol	240	U
108-60-1	2,2'-Oxybis(1-chloropropane)	240	U
98-86-2	Acetophenone	110	J
106-44-5	4-Methylphenol	240	U
621-64-7	N-Nitroso-di-n-propylamine	1600	
67-72-1	Hexachloroethane	240	U
98-95-3	Nitrobenzene	240	U
78-59-1	Isophorone	240	U
88-75-5	2-Nitrophenol	240	U
105-67-9	2,4-Dimethylphenol	240	U
111-91-1	Bis(2-chloroethoxy)methane	240	U
120-83-2	2,4-Dichlorophenol	240	U
91-20-3	Naphthalene	8.7	J
106-47-8	4-Chloroaniline	240	U
87-68-3	Hexachlorobutadiene	240	U
105-60-2	Caprolactam	240	U
59-50-7	4-Chloro-3-methylphenol	1500	
91-57-6	2-Methylnaphthalene	240	U
77-47-4	Hexachlorocyclopentadiene	240	U
88-06-2	2,4,6-Trichlorophenol	240	U
95-95-4	2,4,5-Trichlorophenol	240	U
92-52-4	1,1'-Biphenyl	240	U
91-58-7	2-Chloronaphthalene	240	U
88-74-4	2-Nitroaniline	460	U
131-11-3	Dimethylphthalate	240	U
606-20-2	2,6-Dinitrotoluene	240	U
208-96-8	Acenaphthylene	240	U
99-09-2	3-Nitroaniline	460	U
83-32-9	Acenaphthene	1500	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MSD

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 9308047006

Sample wt/vol: 30.2 (g/mL) g

Lab File ID: NXR23M06

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N

Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL)

Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0

Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	460	U
100-02-7	4-Nitrophenol	2600	
132-64-9	Dibenzofuran	240	U
121-14-2	2,4-Dinitrotoluene	1600	
84-66-2	Diethylphthalate	7.5	J
86-73-7	Fluorene	240	U
7005-72-3	4-Chlorophenyl-phenylether	240	U
100-01-6	4-Nitroaniline	460	U
534-52-1	4,6-Dinitro-2-methylphenol	460	U
86-30-6	N-Nitrosodiphenylamine[1]	240	U
95-94-3	1,2,4,5-Tetrachlorobenzene	240	U
101-55-3	4-Bromophenyl-phenylether	240	U
118-74-1	Hexachlorobenzene	240	U
1912-24-9	Atrazine	240	U
87-86-5	Pentachlorophenol	2100	
85-01-8	Phenanthrene	27.	J
120-12-7	Anthracene	240	U
86-74-8	Carbazole	240	U
84-74-2	Di-n-butylphthalate	14.	J
206-44-0	Fluoranthene	80.	J
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	30.	J
91-94-1	3,3'-Dichlorobenzidine	240	U
56-55-3	Benzo(a)anthracene	28.	J
218-01-9	Chrysene	40.	J
117-81-7	Bis(2-ethylhexyl)phthalate	32.	J
117-84-0	Di-n-octylphthalate	240	U
205-99-2	Benzo(b)fluoranthene	41.	J
207-08-9	Benzo(k)fluoranthene	21.	J
50-32-8	Benzo(a)pyrene	37.	J
193-39-5	Indeno(1,2,3-cd)pyrene	39.	J
53-70-3	Dibenzo(a,h)anthracene	7.5	J
191-24-2	Benzo(g,h,i)perylene	37.	J
58-90-2	2,3,4,6-Tetrachlorophenol	240	U

[1]Cannot be separated from Diphenylamine

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047007

Sample wt/vol: 30.4 (g/mL) g Lab File ID: NXR24C07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	50.	J
108-95-2	Phenol	22.	J
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	62.	J
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	29.	J
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	6.5	J

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047007

Sample wt/vol: 30.4 (g/mL) g Lab File ID: NXR24C07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	14.	J
86-73-7	Fluorene	5.8	J
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	74.	J
120-12-7	Anthracene	14.	J
86-74-8	Carbazole	10.	J
84-74-2	Di-n-butylphthalate	20.	J
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	86.	J
85-68-7	Butylbenzylphthalate	23.	J
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	48.	J
218-01-9	Chrysene	54.	J
117-81-7	Bis(2-ethylhexyl)phthalate	26.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	56.	J
207-08-9	Benzo(k)fluoranthene	20.	J
50-32-8	Benzo(a)pyrene	44.	J
193-39-5	Indeno(1,2,3-cd)pyrene	40.	J
53-70-3	Dibenzo(a,h)anthracene	8.0	J
191-24-2	Benzo(g,h,i)perylene	37.	J
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047007

Sample wt/vol: 30.4 (g/mL) g Lab File ID: NXR24C07

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~88-04-0~~	~~Chloroxylenol~~ Unknown	7.14	290	~~JN~~
02	~~126-73-8~~	~~Tributyl phosphate~~ Unknown	10.14	170	~~JNB~~ U ST
03	~~3691-11-0~~ Unknown	~~Squalene, 1,2,3,5,6,7,8,8a-octahydro-1,4-~~	19.39	91.	~~JN~~ 2-3-1
04	~~1492-30-4~~ Unknown	~~Hexadecanoic acid, 4-nitrophenyl ester~~	22.43	110	~~JN~~
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	380	J

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NXR27C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/05/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/07/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/13/2009

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	110	J
108-95-2	Phenol	32.	J
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	130	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	12.	J
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	48.	J

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NXR27C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/05/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/07/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/13/2009

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	28.	J
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	54.	J
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	710	
120-12-7	Anthracene	120	J
86-74-8	Carbazole	72.	J
84-74-2	Di-n-butylphthalate	9.5	J
206-44-0	Fluoranthene	1400	
129-00-0	Pyrene	1000	
85-68-7	Butylbenzylphthalate	16.	J
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	540	
218-01-9	Chrysene	590	
117-81-7	Bis(2-ethylhexyl)phthalate	77.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	950	
207-08-9	Benzo(k)fluoranthene	300	
50-32-8	Benzo(a)pyrene	600	
193-39-5	Indeno(1,2,3-cd)pyrene	680	
53-70-3	Dibenzo(a,h)anthracene	120	J
191-24-2	Benzo(g,h,i)perylene	650	
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NXR27C01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/05/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/07/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/13/2009

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~4706-81-4~~	~~2-Tetradecanol~~ Unknown	12.24	140	~~JN~~
02	84-65-1	9,10-Anthracenedione	13.14	160	JN
03	7683-64-9	Squalene	17.40	110	JN
04	~~1000144-58-0~~	~~14-Heptadecenal~~ Unknown	17.55	160	~~JN~~
05	198-55-0	Perylene	17.87	190	JN
06	1599-67-3	1-Docosene	18.02	510	JN
07	192-97-2	Benzo[e]pyrene	18.26	480	JN
08	198-55-0	Perylene	18.57	130	JN
09	203-11-2	Indeno[1,2,3-fg]naphthacene	19.19	130	JN
10	191-26-4	Dibenzo[def,mno]chrysene	21.30	160	JN
11	~~213-46-7~~	~~1,2:7,8-Dibenzophenanthrene~~ Unknown	22.21	83.	~~JN~~
12	~~1492-30-4~~	~~Hexadecanoic acid, 4-nitrophenyl-ester~~ Unknown	22.46	110	~~JN~~
13	191-26-4	Dibenzo[def,mno]chrysene	23.14	93.	JN
14	83-47-6	.gamma.-Sitosterol	23.32	140	JN
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	130	J

[2]EPA-designated Registry Number.

SK 2-11-10

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: NXR28C02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 11/05/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/07/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/13/2009

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	290	
108-95-2	Phenol	24.	J
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	100	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	6.3	J
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: NXR28C02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 11/05/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/07/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/13/2009

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	7.6	J
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	68.	J
120-12-7	Anthracene	8.9	J
86-74-8	Carbazole	7.3	J
84-74-2	Di-n-butylphthalate	8.4	J
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	140	J
85-68-7	Butylbenzylphthalate	13.	J
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	84.	J
218-01-9	Chrysene	110	J
117-81-7	Bis(2-ethylhexyl)phthalate	55.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	160	J
207-08-9	Benzo(k)fluoranthene	62.	J
50-32-8	Benzo(a)pyrene	110	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J
53-70-3	Dibenzo(a,h)anthracene	26.	J
191-24-2	Benzo(g,h,i)perylene	120	J
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: NXR28C02

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 11/05/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/07/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/13/2009

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	80-56-8	.alpha.-Pinene	4.11	86.	JN
02	18172-67-3	Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me	4.48	110	JN
03	2091-29-4	9-Hexadecenoic acid	12.62	260	JN
04	1000130-84-4	Z-9-Tetradecenoic acid	12.69	500	JN
05	57-10-3	n-Hexadecanoic acid	12.76	310	JN
06	~~1120-36-1~~	1~~-Tetradecen~~e Unknown	13.06	88.	JN
07	17351-34-7	14-Pentadecenoic acid	13.95	170	JN
08	7683-64-9	Squalene	17.39	160	JN
09	192-97-2	Benzo[e]pyrene	18.24	91.	JN
10	~~76078-79-~~0	1~~-Mercapto-2-heptadecano~~ne Unknown	22.44	85.	JN
11	~~83-47-6~~	~~.gamma. Sitoster~~ol Unknown	23.32	140	JN
12					
13					
14		2-11-10			
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	84.	J

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047008

Sample wt/vol: 30.2 (g/mL) g Lab File ID: NXR25C08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	62.	J
108-95-2	Phenol	29.	J
111-44-4	Bis(2-chloroethyl)ether	220	U
95-57-8	2-Chlorophenol	220	U
95-48-7	2-Methylphenol	220	U
108-60-1	2,2'-Oxybis(1-chloropropane)	220	U
98-86-2	Acetophenone	77.	J
106-44-5	4-Methylphenol	220	U
621-64-7	N-Nitroso-di-n-propylamine	220	U
67-72-1	Hexachloroethane	220	U
98-95-3	Nitrobenzene	220	U
78-59-1	Isophorone	220	U
88-75-5	2-Nitrophenol	220	U
105-67-9	2,4-Dimethylphenol	220	U
111-91-1	Bis(2-chloroethoxy)methane	220	U
120-83-2	2,4-Dichlorophenol	220	U
91-20-3	Naphthalene	6.7	J
106-47-8	4-Chloroaniline	220	U
87-68-3	Hexachlorobutadiene	220	U
105-60-2	Caprolactam	220	U
59-50-7	4-Chloro-3-methylphenol	220	U
91-57-6	2-Methylnaphthalene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U
92-52-4	1,1'-Biphenyl	220	U
91-58-7	2-Chloronaphthalene	220	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	220	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	220	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047008

Sample wt/vol: 30.2 (g/mL) g Lab File ID: NXR25C08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	220	U
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	9.2	J
86-73-7	Fluorene	220	U
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	220	U
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U
101-55-3	4-Bromophenyl-phenylether	220	U
118-74-1	Hexachlorobenzene	220	U
1912-24-9	Atrazine	220	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	21.	J
120-12-7	Anthracene	220	U
86-74-8	Carbazole	220	U
84-74-2	Di-n-butylphthalate	13.	J
206-44-0	Fluoranthene	56.	J
129-00-0	Pyrene	40.	J
85-68-7	Butylbenzylphthalate	21.	J
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	22.	J
218-01-9	Chrysene	26.	J
117-81-7	Bis(2-ethylhexyl)phthalate	26.	J
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	27.	J
207-08-9	Benzo(k)fluoranthene	12.	J
50-32-8	Benzo(a)pyrene	27.	J
193-39-5	Indeno(1,2,3-cd)pyrene	24.	J
53-70-3	Dibenzo(a,h)anthracene	220	U
191-24-2	Benzo(g,h,i)perylene	23.	J
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E3HD3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047008

Sample wt/vol: 30.2 (g/mL) g Lab File ID: NXR25C08

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~88-04-0~~	~~Chloroxylenol~~ unknown	7.15	310	~~JN~~
02	~~76078-79-0~~	1~~-Mercapto-2-heptadecan~~one unknown	22.45	130	~~JN~~
03					
04					
05					
06					
07					
08					
09					
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11					
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25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

ek
2-11-10

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK13

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122899

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NXR17BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/07/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK13

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122899

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NXR17BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/07/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK13

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122899

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NXR17BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/07/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK99

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122699

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NXR15BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK99

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122699

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NXR15BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK99

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122699

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NXR15BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 11/05/2009

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 11/12/2009

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~126-73-8~~	~~Tributyl phosphate~~ unknown	10.14	81.	JN
02					
03					
04					
05		ST 2-11-10			
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

2P - FORM II PEST-2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKS1	67	70	65	72			0
02	PBLKS2	69	71	72	68			0
03	PLCSS1	84	86	85	85			0
04	PLCSS2	81	85	82	82			0
05	E3HC6	54	61	69	127			0
06	E3HC7	70	76	73	97			0
07	E3HC8	56	60	62	64			0
08	E3HC9	66	72	69	74			0
09	E3HD0	56	59	56	60			0
10	E3HD1	55	61	61	76			0
11	E3HD2	61	63	65	72			0
12	E3HD3	63	66	73	70			0
13	E3HC9MS	74	81	75	80			0
14	E3HC9MSD	71	77	78	77			0
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix Spike - EPA Sample No.: E3HC9

Instrument ID: GCE31 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	23.	0.034	16.	67	46-127
Heptachlor	23.	0.50	16.	66	35-130
Aldrin	23.	0.66	17.	71	34-132
Dieldrin	47.	0.80	34.	71	31-134
Endrin	47.	0	34.	72	42-139
4,4'-DDT	47.	0.20	31.	66	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	23.	16.	68	2	0-50	46-127
Heptachlor	23.	16.	68	2	0-31	35-130
Aldrin	23.	17.	71	1	0-43	34-132
Dieldrin	47.	35.	74	4	0-38	31-134
Endrin	47.	36.	78	8	0-45	42-139
4,4'-DDT	47.	36.	77	15	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix Spike - EPA Sample No.: E3HC9

Instrument ID: GCE31 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	23.	0	17.	75	46-127
Heptachlor	23.	0	17.	74	35-130
Aldrin	23.	0.36	18.	76	34-132
Dieldrin	47.	0.45	35.	74	31-134
Endrin	47.	0.13	36.	76	42-139
4,4'-DDT	47.	0.73	40.	85	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	23.	18.	78	4	0-50	46-127
Heptachlor	23.	18.	76	2	0-31	35-130
Aldrin	23.	18.	78	3	0-43	34-132
Dieldrin	47.	36.	77	4	0-38	31-134
Endrin	47.	36.	77	1	0-45	42-139
4,4'-DDT	47.	41.	86	2	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

3M - FORM III PEST-4

SOIL PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Lab Sample ID: 122701 LCS Lot No.: _____

Date Extracted: 11/05/2009 Date Analyzed (1): 11/13/2009

Instrument ID (1): GCE31 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.2	73	50-120
Heptachlor epoxide	1.7	1.4	82	50-150
Dieldrin	3.3	2.9	86	30-130
4,4'-DDE	3.3	3.0	89	50-150
Endrin	3.3	2.9	87	50-120
Endosulfan sulfate	3.3	3.1	93	50-120
gamma-Chlordane	1.7	1.4	85	30-130

Instrument ID (2): GCE31 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 11/13/2009

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.2	69	50-120
Heptachlor epoxide	1.7	1.2	74	50-150
Dieldrin	3.3	2.5	76	30-130
4,4'-DDE	3.3	2.4	71	50-150
Endrin	3.3	2.5	76	50-120
Endosulfan sulfate	3.3	2.6	79	50-120
gamma-Chlordane	1.7	1.3	77	30-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 14 outside limits.

COMMENTS: _____

3M - FORM III PEST-4

SOIL PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSS2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Lab Sample ID: 122901 LCS Lot No.: _____

Date Extracted: 11/07/2009 Date Analyzed (1): 11/13/2009

Instrument ID (1): GCE31 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.3	75	50-120
Heptachlor epoxide	1.7	1.4	84	50-150
Dieldrin	3.3	2.9	87	30-130
4,4'-DDE	3.3	3.1	94	50-150
Endrin	3.3	2.9	88	50-120
Endosulfan sulfate	3.3	3.2	95	50-120
gamma-Chlordane	1.7	1.5	91	30-130

Instrument ID (2): GCE31 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 11/13/2009

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.2	73	50-120
Heptachlor epoxide	1.7	1.3	80	50-150
Dieldrin	3.3	2.7	82	30-130
4,4'-DDE	3.3	2.5	75	50-150
Endrin	3.3	2.6	79	50-120
Endosulfan sulfate	3.3	2.8	85	50-120
gamma-Chlordane	1.7	1.4	82	30-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 14 outside limits.

COMMENTS: _____

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 11/13/2009 11/13/2009

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.23 DCB: 21.32

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCA1	31091112A004	11/13/2009	00:45	7.24	21.32
02	PEMA1	31091112A005	11/13/2009	01:16	7.23	21.32
03	TOXAPH1A1	31091112A006	11/13/2009	01:46	7.23	21.31
04	TOXAPH2A1	31091112A007	11/13/2009	02:17	7.23	21.31
05	TOXAPH3A1	31091112A008	11/13/2009	02:47	7.23	21.31
06	TOXAPH4A1	31091112A009	11/13/2009	03:18	7.23	21.31
07	TOXAPH5A1	31091112A010	11/13/2009	03:49	7.23	21.31
08	INDC1A1	31091112A011	11/13/2009	04:20	7.23	21.32
09	INDC2A1	31091112A012	11/13/2009	04:50	7.23	21.32
10	INDC3A1	31091112A013	11/13/2009	05:21	7.23	21.32
11	INDC4A1	31091112A014	11/13/2009	05:51	7.23	21.32
12	INDC5A1	31091112A015	11/13/2009	06:22	7.23	21.32
13	PIBLKB1	31091112A016	11/13/2009	06:52	7.23	21.32
14	PEMB1	31091112A017	11/13/2009	07:23	7.23	21.32
15	ZZZZZ		11/13/2009	07:54		
16	ZZZZZ		11/13/2009	08:24		
17	PBLKS1	31091112A020	11/13/2009	08:55	7.25	21.34
18	PLCSS1	31091112A021	11/13/2009	09:25	7.25	21.35
19	PBLKS2	31091112A022	11/13/2009	09:56	7.25	21.34
20	PLCSS2	31091112A023	11/13/2009	10:27	7.25	21.34
21	E3HC6	31091112A024	11/13/2009	10:57	7.25	21.34
22	E3HC7	31091112A025	11/13/2009	11:28	7.25	21.33
23	E3HC8	31091112A026	11/13/2009	11:58	7.24	21.33
24	E3HC9	31091112A027	11/13/2009	12:29	7.24	21.32
25	E3HC9MS	31091112A028	11/13/2009	13:00	7.24	21.33
26	E3HC9MSD	31091112A029	11/13/2009	13:31	7.23	21.32
27	E3HD0	31091112A030	11/13/2009	14:01	7.23	21.31
28	E3HD3	31091112A031	11/13/2009	14:32	7.23	21.32
29	E3HD1	31091112A032	11/13/2009	15:03	7.23	21.31
30	E3HD2	31091112A033	11/13/2009	15:33	7.23	21.31
31	ZZZZZ		11/13/2009	16:04		
32	PIBLKC1	31091112A035	11/13/2009	16:35	7.23	21.32

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 11/13/2009 11/13/2009

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.23 DCB: 21.32

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	INDC3C1	31091112A036	11/13/2009	17:05	7.23	21.32
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 11/13/2009 11/13/2009

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.40 DCB: 23.63

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCA2	31091112B004	11/13/2009	01:16	8.41	23.63
02	PEMA2	31091112B005	11/13/2009	01:46	8.41	23.63
03	TOXAPH1A2	31091112B006	11/13/2009	02:17	8.40	23.63
04	TOXAPH2A2	31091112B007	11/13/2009	02:47	8.40	23.63
05	TOXAPH3A2	31091112B008	11/13/2009	03:18	8.40	23.63
06	TOXAPH4A2	31091112B009	11/13/2009	03:49	8.41	23.63
07	TOXAPH5A2	31091112B010	11/13/2009	04:20	8.40	23.63
08	INDC1A2	31091112B011	11/13/2009	04:50	8.40	23.63
09	INDC2A2	31091112B012	11/13/2009	05:21	8.40	23.63
10	INDC3A2	31091112B013	11/13/2009	05:51	8.41	23.63
11	INDC4A2	31091112B014	11/13/2009	06:22	8.41	23.63
12	INDC5A2	31091112B015	11/13/2009	06:52	8.41	23.63
13	PIBLKB2	31091112B016	11/13/2009	07:23	8.41	23.63
14	PEMB2	31091112B017	11/13/2009	07:54	8.41	23.64
15	ZZZZZ		11/13/2009	08:24		
16	ZZZZZ		11/13/2009	08:55		
17	PBLKS1	31091112B020	11/13/2009	09:25	8.42	23.65
18	PLCSS1	31091112B021	11/13/2009	09:56	8.42	23.65
19	PBLKS2	31091112B022	11/13/2009	10:27	8.42	23.65
20	PLCSS2	31091112B023	11/13/2009	10:57	8.41	23.64
21	E3HC6	31091112B024	11/13/2009	11:28	8.41	23.65
22	E3HC7	31091112B025	11/13/2009	11:58	8.41	23.64
23	E3HC8	31091112B026	11/13/2009	12:29	8.41	23.63
24	E3HC9	31091112B027	11/13/2009	13:00	8.41	23.63
25	E3HC9MS	31091112B028	11/13/2009	13:31	8.41	23.63
26	E3HC9MSD	31091112B029	11/13/2009	14:01	8.40	23.63
27	E3HD0	31091112B030	11/13/2009	14:32	8.40	23.63
28	E3HD3	31091112B031	11/13/2009	15:03	8.40	23.62
29	E3HD1	31091112B032	11/13/2009	15:33	8.40	23.62
30	E3HD2	31091112B033	11/13/2009	16:04	8.40	23.62
31	ZZZZZ		11/13/2009	16:35		
32	PIBLKC2	31091112B035	11/13/2009	17:05	8.40	23.63

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 11/13/2009 11/13/2009

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.40 DCB: 23.63

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	INDC3C2	31091112B036	11/13/2009	17:36	8.40	23.63
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
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27						
28						
29						
30						
31						
32						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(± 0.05 MINUTES)
DCB = Decachlorobiphenyl	(± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Lab File ID: 31091112A020,31091112B020 Lab Sample ID: 122700

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 11/05/2009

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 11/13/2009 Date Analyzed (2): 11/13/2009

Time Analyzed (1): 08:55 Time Analyzed (2): 09:25

Instrument ID (1): GCE31 Instrument ID (2): GCE31

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCSS1	122701	11/13/2009	11/13/2009
02	E3HC6	9308047001	11/13/2009	11/13/2009
03	E3HC7	9308047002	11/13/2009	11/13/2009
04	E3HC8	9308047003	11/13/2009	11/13/2009
05	E3HC9	9308047004	11/13/2009	11/13/2009
06	E3HD0	9308047007	11/13/2009	11/13/2009
07	E3HD3	9308047008	11/13/2009	11/13/2009
08	E3HC9MS	9308047005	11/13/2009	11/13/2009
09	E3HC9MSD	9308047006	11/13/2009	11/13/2009
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COMMENTS:

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKS2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Lab File ID: 31091112A022,31091112B022 Lab Sample ID: 122900

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 11/07/2009

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 11/13/2009 Date Analyzed (2): 11/13/2009

Time Analyzed (1): 09:56 Time Analyzed (2): 10:27

Instrument ID (1): GCE31 Instrument ID (2): GCE31

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCSS2	122901	11/13/2009	11/13/2009
02	E3HD1	9309050001	11/13/2009	11/13/2009
03	E3HD2	9309050002	11/13/2009	11/13/2009
04				
05				
06				
07				
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26				

COMMENTS: _____

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A024,31091112B024

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	0.97	~~JBP~~
319-86-8	delta-BHC	0.39	J
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	0.92	J
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0 ~~0.18~~	~~JP~~ U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	2.0	JP
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.1	JP
33213-65-9	Endosulfan II	1.2	JP
72-54-8	4,4'-DDD	6.8	~~P~~
1031-07-8	Endosulfan sulfate	1.6	JP
50-29-3	4,4'-DDT	6.9	PJ
72-43-5	Methoxychlor	20.	~~JBP~~
53494-70-5	Endrin ketone	3.2	JP
7421-93-4	Endrin aldehyde	3.9 ~~0.81~~	~~JP~~ U
5103-71-9	alpha-Chlordane	0.79	JP
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

SF 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A025,31091112B025

% Moisture: 23. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.2 ~~0.11~~	~~JP~~ U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2 ~~0.023~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2 ~~0.036~~	~~JP~~ U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3 ~~0.36~~	~~JP~~ U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	2.8	~~JP~~P
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3 ~~0.28~~	~~JP~~ U
72-43-5	Methoxychlor	22.	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U

GT 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A026,31091112B026

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.2 0.~~032~~	~~JP~~ U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2 0.~~024~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2 0.~~039~~	~~JP~~ U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2 0.~~14~~	~~JBP~~ U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22.	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U

JT 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A027,31091112B027

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.4 0.~~094~~	~~JP~~ U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4 0.~~023~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4 0.~~36~~	~~JP~~ U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6 0.~~45~~	~~JP~~ U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6 0.~~31~~	~~JP~~ U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6 0.~~20~~	~~JP~~ U
72-43-5	Methoxychlor	24 0.~~65~~	~~JP~~ U
53494-70-5	Endrin ketone	0.13	J
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4 0.~~020~~	~~JP~~ U
8001-35-2	Toxaphene	240	U

JT 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MS(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A028

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q	
319-84-6	alpha-BHC	0.32	JP	NR
319-85-7	beta-BHC	2.4	U	
319-86-8	delta-BHC	2.4 ~~0.025~~	~~JP~~ 4	
58-89-9	gamma-BHC (Lindane)	16.		
76-44-8	Heptachlor	16.		
309-00-2	Aldrin	17.		
1024-57-3	Heptachlor epoxide	0.077	J	NR
959-98-8	Endosulfan I	2.4	U	
60-57-1	Dieldrin	34.		
72-55-9	4,4'-DDE	4.6 ~~0.44~~	~~JP~~ 4	
72-20-8	Endrin	34.		
33213-65-9	Endosulfan II	4.6 ~~0.37~~	~~JP~~ 4	
72-54-8	4,4'-DDD	3.1	~~JBP~~	NR
1031-07-8	Endosulfan sulfate	4.6	U	
50-29-3	4,4'-DDT	31.	P J	
72-43-5	Methoxychlor	24 ~~0.51~~	~~JBP~~	4
53494-70-5	Endrin ketone	1.5	JP	NR
7421-93-4	Endrin aldehyde	1.2	JP	✓
5103-71-9	alpha-Chlordane	2.4	U	
5103-74-2	gamma-Chlordane	2.4	U	
8001-35-2	Toxaphene	240	U	

2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MS(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112B028

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q	
319-84-6	alpha-BHC	2.4 ~~0.076~~	~~JP~~ U	
319-85-7	beta-BHC	2.4	U	
319-86-8	delta-BHC	0.69	JP	NR
58-89-9	gamma-BHC (Lindane)	17.		
76-44-8	Heptachlor	17.		
309-00-2	Aldrin	18.		
1024-57-3	Heptachlor epoxide	2.4	U	
959-98-8	Endosulfan I	2.4	U	
60-57-1	Dieldrin	35.		
72-55-9	4,4'-DDE	1.5	JP	NR
72-20-8	Endrin	36.		
33213-65-9	Endosulfan II	0.56	JP	NR
72-54-8	4,4'-DDD	1.2	~~JB~~P	✓
1031-07-8	Endosulfan sulfate	0.61	J	NR
50-29-3	4,4'-DDT	40.	P	NR
72-43-5	Methoxychlor	1.8	~~JB~~P	NR
53494-70-5	Endrin ketone	4.6 ~~1.0~~	~~JP~~ U	
7421-93-4	Endrin aldehyde	2.1	JP	NR
5103-71-9	alpha-Chlordane	2.4	U	
5103-74-2	gamma-Chlordane	0.29	J	NR
8001-35-2	Toxaphene	240	U	

ES 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MSD(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A029

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q	
319-84-6	alpha-BHC	0.41	JP	NR
319-85-7	beta-BHC	2.4	U	
319-86-8	delta-BHC	2.4 ~~0.065~~	~~JP~~ U	
58-89-9	gamma-BHC (Lindane)	16.		
76-44-8	Heptachlor	16.		
309-00-2	Aldrin	17.		
1024-57-3	Heptachlor epoxide	0.089	J	NR
959-98-8	Endosulfan I	2.4	U	
60-57-1	Dieldrin	35.		
72-55-9	4,4'-DDE	4.4 ~~0.26~~	~~JP~~ U	
72-20-8	Endrin	36.		
33213-65-9	Endosulfan II	0.36	JP	NR
72-54-8	4,4'-DDD	3.9	~~JBP~~	NR
1031-07-8	Endosulfan sulfate	4.6	U	
50-29-3	4,4'-DDT	36.		
72-43-5	Methoxychlor	24 ~~0.26~~	~~JBP~~ U	
53494-70-5	Endrin ketone	1.7	JP	NR
7421-93-4	Endrin aldehyde	1.2	JP	✓
5103-71-9	alpha-Chlordane	2.4	U	
5103-74-2	gamma-Chlordane	0.074	J	NR
8001-35-2	Toxaphene	240	U	

JK 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MSD(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112B029

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q	
319-84-6	alpha-BHC	2.4 ~~0.078~~	~~JP~~ U	
319-85-7	beta-BHC	2.4	U	
319-86-8	delta-BHC	0.56	JP	NR
58-89-9	gamma-BHC (Lindane)	18.		
76-44-8	Heptachlor	18.		
309-00-2	Aldrin	18.		
1024-57-3	Heptachlor epoxide	2.4	U	
959-98-8	Endosulfan I	2.4	U	
60-57-1	Dieldrin	36.		
72-55-9	4,4'-DDE	0.63	JP	NR
72-20-8	Endrin	36.		
33213-65-9	Endosulfan II	4.6 ~~0.23~~	~~JP~~ U	
72-54-8	4,4'-DDD	4.6 ~~1.1~~	~~JBP~~ U	
1031-07-8	Endosulfan sulfate	4.6	U	
50-29-3	4,4'-DDT	41.		
72-43-5	Methoxychlor	2.7	~~JBP~~	NR
53494-70-5	Endrin ketone	4.6 ~~0.99~~	~~JP~~ U	
7421-93-4	Endrin aldehyde	2.6	JP	NR
5103-71-9	alpha-Chlordane	2.4	U	
5103-74-2	gamma-Chlordane	2.4	U	
8001-35-2	Toxaphene	240	U	

ST
2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047007

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A030,31091112B030

% Moisture: 13. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0 ~~0.048~~	~~JP~~ U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0 ~~0.015~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20. ~~0.53~~	~~JBP~~ U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0 ~~0.029~~	~~JP~~ U
8001-35-2	Toxaphene	200	U

CK 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A032,31091112B032

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/05/2009

Extraction: (Type) SONC Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	0.51	JP
319-86-8	delta-BHC	2.0 ~~0.019~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0 ~~0.13~~	~~JP~~ U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.52	J
72-55-9	4,4'-DDE	8.6	
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9 ~~0.18~~	~~JP~~ U
72-54-8	4,4'-DDD	1.6	J
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	2.3	JP
72-43-5	Methoxychlor	20 ~~4.6~~	~~JP~~ U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	0.27	J
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

SK
2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A033,31091112B033

% Moisture: 18. Decanted: (Y/N) N Date Received: 11/05/2009

Extraction: (Type) SONC Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1 ~~0.11~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	0.072	J
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	0.51	J
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	4.0 ~~0.013~~	~~JP~~ U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

SK 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047008

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A031,31091112B031

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2 0.~~014~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22, ~~0.60~~	~~JBP~~ U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2 0.~~027~~	~~JP~~ U
8001-35-2	Toxaphene	220	U

SS 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122700

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A020,31091112B020

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7 ~~0.024~~	~~JP~~ U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3 ~~0.027~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17 ~~0.10~~	~~JP~~ U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

JP 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122900

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A022,31091112B022

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17 ~~0.11~~	~~JP~~ U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

JT 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122701

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A021

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q	
319-84-6	alpha-BHC	1.7	U	
319-85-7	beta-BHC	1.7	U	
319-86-8	delta-BHC	1.7 ~~0.0032~~	~~JP~~ U	
58-89-9	gamma-BHC (Lindane)	1.2	J	
76-44-8	Heptachlor	0.068	JP	NR
309-00-2	Aldrin	0.034	JP	NR
1024-57-3	Heptachlor epoxide	1.4	J	NR
959-98-8	Endosulfan I	1.7	U	
60-57-1	Dieldrin	2.9	J	NR
72-55-9	4,4'-DDE	3.0	JP	NR
72-20-8	Endrin	2.9	J	NR
33213-65-9	Endosulfan II	3.3	U	
72-54-8	4,4'-DDD	0.15	~~JP~~	NR
1031-07-8	Endosulfan sulfate	3.1	J	NR
50-29-3	4,4'-DDT	3.3 ~~0.025~~	~~JP~~ U	
72-43-5	Methoxychlor	17. ~~0.065~~	~~JBP~~ U	
53494-70-5	Endrin ketone	0.19	JP	NR
7421-93-4	Endrin aldehyde	3.3 ~~0.11~~	~~JP~~ U	
5103-71-9	alpha-Chlordane	1.7	U	
5103-74-2	gamma-Chlordane	1.4	J	NR
8001-35-2	Toxaphene	170	U	

2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122701

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112B021

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q	
319-84-6	alpha-BHC	1.7	U	
319-85-7	beta-BHC	1.7	U	
319-86-8	delta-BHC	0.035	JP	NR
58-89-9	gamma-BHC (Lindane)	1.2	J	
76-44-8	Heptachlor	1.7 ~~0.0084~~	~~JP~~ U	
309-00-2	Aldrin	1.7 ~~0.018~~	~~JP~~ U	
1024-57-3	Heptachlor epoxide	1.2	J	
959-98-8	Endosulfan I	1.7	U	
60-57-1	Dieldrin	2.5	J	
72-55-9	4,4'-DDE	2.4	JP ✓	
72-20-8	Endrin	2.5	J	
33213-65-9	Endosulfan II	0.013	J	NR
72-54-8	4,4'-DDD	3.3	U	
1031-07-8	Endosulfan sulfate	2.6	J	
50-29-3	4,4'-DDT	0.061	JP	NR
72-43-5	Methoxychlor	0.59	JBP	NR
53494-70-5	Endrin ketone	3.3 ~~0.10~~	~~JP~~ U	
7421-93-4	Endrin aldehyde	0.36	JP	NR
5103-71-9	alpha-Chlordane	1.7	U	
5103-74-2	gamma-Chlordane	1.3	J	
8001-35-2	Toxaphene	170	U	

SR 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS2(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122901

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112A023

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q	
319-84-6	alpha-BHC	1.7	U	
319-85-7	beta-BHC	1.7	U	
319-86-8	delta-BHC	1.7 ~~0.0033~~	~~JP~~ U	ST
58-89-9	gamma-BHC (Lindane)	1.3	J	NR 2-3-11
76-44-8	Heptachlor	0.070	J	NR
309-00-2	Aldrin	0.033	J	NR
1024-57-3	Heptachlor epoxide	1.4	J	NR
959-98-8	Endosulfan I	1.7	U	
60-57-1	Dieldrin	2.9	J	NR
72-55-9	4,4'-DDE	3.1	JP	NR
72-20-8	Endrin	2.9	J	NR
33213-65-9	Endosulfan II	3.3	U	
72-54-8	4,4'-DDD	0.24	J	NR
1031-07-8	Endosulfan sulfate	3.2	J	NR
50-29-3	4,4'-DDT	3.3 ~~0.042~~	~~JP~~ U	
72-43-5	Methoxychlor	17. ~~0.048~~	~~JBP~~ U	
53494-70-5	Endrin ketone	0.21	JP	NR
7421-93-4	Endrin aldehyde	3.3 ~~0.13~~	~~JP~~ U	
5103-71-9	alpha-Chlordane	1.7	U	
5103-74-2	gamma-Chlordane	1.5	J	NR
8001-35-2	Toxaphene	170	U	

ST 2-3-10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS2(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122901

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31091112B023

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/13/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q	
319-84-6	alpha-BHC	1.7	U	
319-85-7	beta-BHC	1.7	U	
319-86-8	delta-BHC	0.034	JP	NR
58-89-9	gamma-BHC (Lindane)	1.2	J	
76-44-8	Heptachlor	1.7	U	
309-00-2	Aldrin	1.7	U	
1024-57-3	Heptachlor epoxide	1.3	J	
959-98-8	Endosulfan I	1.7	U	
60-57-1	Dieldrin	2.7	J	
72-55-9	4,4'-DDE	2.5	JP ✓	
72-20-8	Endrin	2.6	J	
33213-65-9	Endosulfan II	0.015	J	NR
72-54-8	4,4'-DDD	3.3	U	
1031-07-8	Endosulfan sulfate	2.8	J	
50-29-3	4,4'-DDT	0.056	JP	NR
72-43-5	Methoxychlor	0.46	JBP	NR
53494-70-5	Endrin ketone	3.3 ~~0.13~~	~~JP~~ U	
7421-93-4	Endrin aldehyde	0.34	JP	NR
5103-71-9	alpha-Chlordane	1.7	U	
5103-74-2	gamma-Chlordane	1.4	J	
8001-35-2	Toxaphene	170	U	

CK 2-3-10

2R - FORM II ARO-2

SOIL AROCLOR SURROGATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ABLKS1	60	64	57	62			0
02	ABLKS2	72	66	61	60			0
03	ALCSS1	87	89	77	82			0
04	ALCSS2	82	86	73	77			0
05	E3HC6	70	71	83	164 *			1
06	E3HC7	87	89	86	95			0
07	E3HC8	74	80	73	76			0
08	E3HC9	77	81	71	75			0
09	E3HD0	77	81	72	76			0
10	E3HD1	70	79	74	93			0
11	E3HD2	78	80	76	78			0
12	E3HD3	73	81	72	76			0
13	E3HC9MS	80	80	69	70			0
14	E3HC9MSD	67	77	70	74			0
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix Spike - EPA Sample No.: E3HC9

Instrument ID: GCE20 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	190	0	120	65	29-135
AR1260	190	0	140	73	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	190	160	87	29 *	0-15	29-135
AR1260	190	130	71	3	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix Spike - EPA Sample No.: E3HC9

Instrument ID: GCE20 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	190	0	130	71	29-135
AR1260	190	0	140	73	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	190	130	69	3	0-15	29-135
AR1260	190	140	78	6	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3P - FORM III ARO-4

SOIL AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Lab Sample ID: 122702 LCS Lot No.: _____

Date Extracted: 11/05/2009 Date Analyzed (1): 11/11/2009

Instrument ID (1): GCE20 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	37.	111	50-150
AR1260	33.	35.	104	50-150

Instrument ID (2): GCE20 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 11/12/2009

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	36.	109	50-150
AR1260	33.	34.	101	50-150

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS: _____

3P - FORM III ARO-4
SOIL AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSS2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Lab Sample ID: 122902 LCS Lot No.:

Date Extracted: 11/07/2009 Date Analyzed (1): 11/12/2009

Instrument ID (1): GCE20 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	34.	103	50-150
AR1260	33.	33.	99	50-150

Instrument ID (2): GCE20 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 11/12/2009

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	36.	109	50-150
AR1260	33.	32.	97	50-150

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Lab File ID: 20091111A021,20091111B021 Lab Sample ID: 122700

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 11/05/2009

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 11/11/2009 Date Analyzed (2): 11/11/2009

Time Analyzed (1): 23:27 Time Analyzed (2): 23:48

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCSS1	122702	11/11/2009	11/12/2009
02	E3HC6	9308047001	11/12/2009	11/12/2009
03	E3HC7	9308047002	11/12/2009	11/12/2009
04	E3HC8	9308047003	11/12/2009	11/12/2009
05	E3HC9	9308047004	11/12/2009	11/12/2009
06	E3HD0	9308047007	11/12/2009	11/12/2009
07	E3HD3	9308047008	11/12/2009	11/12/2009
08	E3HC9MS	9308047005	11/12/2009	11/12/2009
09	E3HC9MSD	9308047006	11/12/2009	11/12/2009
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26				

COMMENTS:

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLKS2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Lab File ID: 20091111A032,20091111B032 Lab Sample ID: 122900

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 11/07/2009

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 11/12/2009 Date Analyzed (2): 11/12/2009

Time Analyzed (1): 03:12 Time Analyzed (2): 03:32

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCSS2	122902	11/12/2009	11/12/2009
02	E3HD1	9309050001	11/12/2009	11/12/2009
03	E3HD2	9309050002	11/12/2009	11/12/2009
04				
05				
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COMMENTS:

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 11/11/2009 11/11/2009

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.88 DCB: 10.47

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16601A1	20091111A006	11/11/2009	18:22	3.87	10.47
02	AR16602A1	20091111A007	11/11/2009	18:42	3.88	10.47
03	AR16603A1	20091111A008	11/11/2009	19:03	3.88	10.47
04	AR16604A1	20091111A009	11/11/2009	19:23	3.88	10.47
05	AR16605A1	20091111A010	11/11/2009	19:43	3.88	10.47
06	AR12213A1	20091111A011	11/11/2009	20:03	3.88	10.47
07	AR12323A1	20091111A012	11/11/2009	20:24	3.88	10.47
08	AR12423A1	20091111A013	11/11/2009	20:44	3.88	10.47
09	AR12483A1	20091111A014	11/11/2009	21:04	3.88	10.47
10	AR12543A1	20091111A015	11/11/2009	21:25	3.88	10.47
11	AR12623A1	20091111A016	11/11/2009	21:45	3.88	10.47
12	AR12683A1	20091111A017	11/11/2009	22:06	3.88	10.47
13	AIBLKB1	20091111A018	11/11/2009	22:26	3.88	10.47
14	AR16603B1	20091111A019	11/11/2009	22:46	3.88	10.47
15	ZZZZZ		11/11/2009	23:07		
16	ABLKS1	20091111A021	11/11/2009	23:27	3.88	10.47
17	ALCSS1	20091111A022	11/11/2009	23:48	3.88	10.47
18	E3HC6	20091111A023	11/12/2009	00:08	3.88	10.47
19	E3HC7	20091111A024	11/12/2009	00:29	3.88	10.47
20	E3HC8	20091111A025	11/12/2009	00:49	3.88	10.47
21	E3HC9	20091111A026	11/12/2009	01:09	3.88	10.47
22	E3HC9MS	20091111A027	11/12/2009	01:30	3.88	10.47
23	E3HC9MSD	20091111A028	11/12/2009	01:50	3.88	10.47
24	E3HD0	20091111A029	11/12/2009	02:11	3.88	10.47
25	E3HD3	20091111A030	11/12/2009	02:31	3.88	10.47
26	ZZZZZ		11/12/2009	02:51		
27	ABLKS2	20091111A032	11/12/2009	03:12	3.88	10.47
28	ALCSS2	20091111A033	11/12/2009	03:32	3.88	10.47
29	E3HD1	20091111A034	11/12/2009	03:53	3.88	10.47
30	E3HD2	20091111A035	11/12/2009	04:13	3.88	10.47
31	ZZZZZ		11/12/2009	04:33		
32	AIBLKC1	20091111A037	11/12/2009	04:54	3.88	10.47

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 11/11/2009 11/11/2009

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.88 DCB: 10.47

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16603C1	20091111A038	11/12/2009	05:14	3.88	10.47
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
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14						
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30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 11/11/2009 11/11/2009

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.31 DCB: 11.55

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16601A2	20091111B006	11/11/2009	18:42	4.31	11.55
02	AR16602A2	20091111B007	11/11/2009	19:03	4.31	11.55
03	AR16603A2	20091111B008	11/11/2009	19:23	4.31	11.55
04	AR16604A2	20091111B009	11/11/2009	19:43	4.31	11.55
05	AR16605A2	20091111B010	11/11/2009	20:03	4.31	11.55
06	AR12213A2	20091111B011	11/11/2009	20:24	4.31	11.55
07	AR12323A2	20091111B012	11/11/2009	20:44	4.31	11.55
08	AR12423A2	20091111B013	11/11/2009	21:04	4.31	11.55
09	AR12483A2	20091111B014	11/11/2009	21:25	4.31	11.55
10	AR12543A2	20091111B015	11/11/2009	21:45	4.31	11.55
11	AR12623A2	20091111B016	11/11/2009	22:06	4.31	11.55
12	AR12683A2	20091111B017	11/11/2009	22:26	4.31	11.55
13	AIBLKB2	20091111B018	11/11/2009	22:46	4.31	11.55
14	AR16603B2	20091111B019	11/11/2009	23:07	4.31	11.55
15	ZZZZZ		11/11/2009	23:27		
16	ABLKS1	20091111B021	11/11/2009	23:48	4.31	11.55
17	ALCSS1	20091111B022	11/12/2009	00:08	4.31	11.55
18	E3HC6	20091111B023	11/12/2009	00:29	4.30	11.54
19	E3HC7	20091111B024	11/12/2009	00:49	4.30	11.55
20	E3HC8	20091111B025	11/12/2009	01:09	4.30	11.55
21	E3HC9	20091111B026	11/12/2009	01:30	4.30	11.55
22	E3HC9MS	20091111B027	11/12/2009	01:50	4.30	11.55
23	E3HC9MSD	20091111B028	11/12/2009	02:11	4.30	11.55
24	E3HD0	20091111B029	11/12/2009	02:31	4.30	11.55
25	E3HD3	20091111B030	11/12/2009	02:51	4.30	11.55
26	ZZZZZ		11/12/2009	03:12		
27	ABLKS2	20091111B032	11/12/2009	03:32	4.31	11.55
28	ALCSS2	20091111B033	11/12/2009	03:53	4.30	11.55
29	E3HD1	20091111B034	11/12/2009	04:13	4.30	11.55
30	E3HD2	20091111B035	11/12/2009	04:33	4.30	11.55
31	ZZZZZ		11/12/2009	04:54		
32	AIBLKC2	20091111B037	11/12/2009	05:14	4.31	11.55

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 11/11/2009 11/11/2009

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.31 DCB: 11.55

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16603C2	20091111B038	11/12/2009	05:35	4.30	11.55
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
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16						
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18						
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27						
28						
29						
30						
31						
32						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(± 0.05 MINUTES)
DCB = Decachlorobiphenyl	(± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122700

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A021,20091111B021

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/11/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLKS2

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122900

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A032,20091111B032

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS1(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122702

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A022

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/11/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	35.	
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS1(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122702

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111B022

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	34.	
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS2(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122902

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A033

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	34.	
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	J
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS2(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 122902

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111B033

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	32.	J
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC6

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A023,20091111B023

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC7

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A024,20091111B024

% Moisture: 23. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	43.	U
11104-28-2	Aroclor-1221	43.	U
11141-16-5	Aroclor-1232	43.	U
53469-21-9	Aroclor-1242	43.	U
12672-29-6	Aroclor-1248	43.	U
11097-69-1	Aroclor-1254	43.	U
11096-82-5	Aroclor-1260	43.	U
37324-23-5	Aroclor-1262	43.	U
11100-14-4	Aroclor-1268	43.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC8

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A025,20091111B025

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	42.	U
11104-28-2	Aroclor-1221	42.	U
11141-16-5	Aroclor-1232	42.	U
53469-21-9	Aroclor-1242	42.	U
12672-29-6	Aroclor-1248	42.	U
11097-69-1	Aroclor-1254	42.	U
11096-82-5	Aroclor-1260	42.	U
37324-23-5	Aroclor-1262	42.	U
11100-14-4	Aroclor-1268	42.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A026,20091111B026

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	46.	U
11104-28-2	Aroclor-1221	46.	U
11141-16-5	Aroclor-1232	46.	U
53469-21-9	Aroclor-1242	46.	U
12672-29-6	Aroclor-1248	46.	U
11097-69-1	Aroclor-1254	46.	U
11096-82-5	Aroclor-1260	46.	U
37324-23-5	Aroclor-1262	46.	U
11100-14-4	Aroclor-1268	46.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MS(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A027

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	46.	U
11141-16-5	Aroclor-1232	46.	U
53469-21-9	Aroclor-1242	46.	U
12672-29-6	Aroclor-1248	46.	U
11097-69-1	Aroclor-1254	46.	U
11096-82-5	Aroclor-1260	140	
37324-23-5	Aroclor-1262	46.	U
11100-14-4	Aroclor-1268	46.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MS(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111B027

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	130	
11104-28-2	Aroclor-1221	46.	U
11141-16-5	Aroclor-1232	46.	U
53469-21-9	Aroclor-1242	46.	U
12672-29-6	Aroclor-1248	46.	U
11097-69-1	Aroclor-1254	46.	U
11096-82-5	Aroclor-1260	140	
37324-23-5	Aroclor-1262	46.	U
11100-14-4	Aroclor-1268	46.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MSD(1)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A028

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	160	P NR
11104-28-2	Aroclor-1221	46.	U
11141-16-5	Aroclor-1232	46.	U
53469-21-9	Aroclor-1242	46.	U
12672-29-6	Aroclor-1248	46.	U
11097-69-1	Aroclor-1254	46.	U
11096-82-5	Aroclor-1260	130	
37324-23-5	Aroclor-1262	46.	U
11100-14-4	Aroclor-1268	46.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HC9MSD(2)

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111B028

% Moisture: 28. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	130	P
11104-28-2	Aroclor-1221	46.	U
11141-16-5	Aroclor-1232	46.	U
53469-21-9	Aroclor-1242	46.	U
12672-29-6	Aroclor-1248	46.	U
11097-69-1	Aroclor-1254	46.	U
11096-82-5	Aroclor-1260	140	
37324-23-5	Aroclor-1262	46.	U
11100-14-4	Aroclor-1268	46.	U

2-3-1

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD0

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047007

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A029,20091111B029

% Moisture: 13. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD1

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9309050001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A034,20091111B034

% Moisture: 15. Decanted: (Y/N) N Date Received: 11/05/2009

Extraction: (Type) SONC Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD2

Lab Name: ALS DataChem

Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 9309050002

Sample wt/vol: 30.0 (g/mL) g

Lab File ID: 20091111A035,20091111B035

% Moisture: 18. Decanted: (Y/N) N

Date Received: 11/05/2009

Extraction: (Type) SONC

Date Extracted: 11/07/2009

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E3HD3

Lab Name: ALS DataChem Contract: EPW05026

Lab Code: DATAC Case No.: 39181 Mod. Ref No.: _____ SDG No.: E3HC6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 9308047008

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20091111A030,20091111B030

% Moisture: 22. Decanted: (Y/N) N Date Received: 11/04/2009

Extraction: (Type) SONC Date Extracted: 11/05/2009

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/12/2009

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	42.	U
11104-28-2	Aroclor-1221	42.	U
11141-16-5	Aroclor-1232	42.	U
53469-21-9	Aroclor-1242	42.	U
12672-29-6	Aroclor-1248	42.	U
11097-69-1	Aroclor-1254	42.	U
11096-82-5	Aroclor-1260	42.	U
37324-23-5	Aroclor-1262	42.	U
11100-14-4	Aroclor-1268	42.	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E3HC6 CERCLIS No: WIN00510360

Case No: 3981 Site Name/Location: Hartland Well #3 (WI)

Contractor or EPA Lab: ALS Data Chem Data User: WDNR

No. of Samples: 8 Date Sampled or Date Received: 11/20/09

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: 8 No. of samples received: ____

Received by: Pat Joyner Date: 20 NOV 09

Received by LSSS: Pat Joyner Date: 23 NOV 09

Review started: 2-3-10 Reviewer Signature: Stephanie Tobin

Total time spent on review: 16 hrs Date review completed: 2-11-10

Copied by: A C Harvey Date: Feb 11, 2010

Mailed to user by: Pat Joyner Date: 12 FEB 10

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____