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Clyde Dump

Site Reassessment

2012

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Site Reassessment Report

Clyde Dump

City of Clyde, Sandusky County
USEPA ID: OHD 980 905 251
DERR I.D.: 372-0983

January 31, 2012

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SITE REASSESSMENT REPORT

For

Clyde Dump

City of Clyde, Sandusky County
USEPA ID: OHD 980 905 251
DERR ID: 372-0983

OHIO ENVIRONMENTAL PROTECTION AGENCY
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1.0 EXECUTIVE SUMMARY

The Ohio Environmental Protection Agency (Ohio EPA) Division of Environmental Response and Revitalization (DERR) completed a Site Reassessment (SRA) at the Clyde Dump, city of Clyde, Sandusky County. The SRA was performed through a cooperative agreement with the United States Environmental Protection Agency (USEPA) Region V utilizing site investigation protocol as established under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The purpose of this SRA is to determine if the former disposal practices at the Clyde Dump are adversely impacting human health and the environment, and whether additional investigation or remedial action is needed under CERCLA.

2.0 INTRODUCTION

Ohio EPA DERR conducted the SRA of Clyde Dump, USEPA ID# OHD 980 905 251, which is located at geographical coordinates: 41°19'2.5" N; 82°59'2.5" W. Samples of water and sediment were collected to evaluate potential impacts to Raccoon Creek, which is located adjacent to the west side of the site. Samples of soil and leachate were also collected from borings located within the limits of fill. Additional borings were completed outside the fill areas to evaluate geologic and hydrologic conditions and to establish background soil conditions. The sampling occurred August 8th through August 10th, 2011. This report was prepared to discuss the findings of the SRA.

3.0 SITE BACKGROUND

3.1 Site Description

The Clyde Dump site is owned by the city of Clyde and is located in the corporation limits of the city of Clyde, Sandusky County, Green Creek Township, on a 25 acre parcel of land. The northern part of this parcel contains 10 acres of buried waste that is referred to as the Clyde Dump site, and is the subject of this SRA. The southern part of this parcel contains the Clyde Waste Water Treatment Plant (WWTP). Access to this parcel is obtained through another parcel to the south where the Clyde Fire Station is located. The address of the site is 749 West McPherson Highway, Clyde, Ohio 43410. The site is located in the northwest portion of Clyde north of State Route 20 (McPherson Hwy.) and east of Woodland Avenue (See Figure 1: Site Location Map). Surrounding land is being used for commercial, residential, and agricultural purposes. Raccoon Creek is adjacent to the west side of the dump. Raccoon Creek flows from south to north along the western limits of the fill area and enters Sandusky Bay at Pickerel Creek Wildlife Area, located several miles downstream.

A site reconnaissance visit was performed by Ohio EPA on June 28th and August 4th, 2011. A discussion with city officials regarding the site also occurred at the June 28th site visit. The following paragraphs present the findings of these reconnaissance visits and pertinent information obtained from the discussion with city officials. Please reference Figure 2: Site Features Map, for spatial relationship of surrounding properties to the site.

According to Sandusky County online GIS services, property owners abutting the west side of the site include Linda Nichols and P.A.T LLC. B&K Auto Service is located on the Nichols property and contains 9 acres of land. This property was formerly an automobile junk & salvage yard for many years. Within the past few years, the owner or operator has removed most of the junk vehicles and a large tire pile from the site. The P.A.T LLC property is a 12 acre parcel with only 400 lineal feet of its

northern boundary abutting the site. A small mobile home park is located 800 feet away from the site on the southernmost portion of the P.A.T LLC property. The remainder of this parcel is undeveloped with the exception of a small pond and pole building at the north end adjacent to the site.

Warnecke residential housing subdivision is located west of the site between the P.A.T. LLC parcel and just east of Woodland Avenue. This subdivision has been platted for development for several years, but to date no roadways or homes have been constructed. Other commercial and residential construction is occurring west of Woodland Avenue.

The northern and eastern sides of the dump are bordered by a manmade perimeter drainage ditch and agricultural land. The Clyde WWTP is immediately south of the site. A high pressure natural gas line transects the property just north of the Clyde WWTP lagoons and adjacent to the southern fill limits. Columbia Gas Transmission has an easement for the high pressure gas line, which has been in existence since the early 1900s. The original pipeline was abandoned in place and replaced with a larger diameter line in the middle 1900s. There is no known sample data available from this time period for the gas line easement. According to Clyde officials, some waste material was historically placed over top of this easement, but was later relocated to the north of the fill area as part of the 2005 site improvement project. This information further suggests that the pipeline was installed prior to the beginning of disposal operations. Specific details pertaining to the current pipeline can be obtained by contacting Columbia Gas Transmission directly.

The agricultural field adjacent to the east side of the site was recently purchased by Clyde. Plans are underway to construct a solar energy farm and anticipated improvements to the WWTP on this property in the near future. According to city officials, WWTP improvements will limit discharges from the last remaining combined sewer overflow located at the head of the plant, by constructing a large first-catch holding basin. City officials also indicated that this basin might be utilized for leachate storage and subsequent treatment in conjunction with other leachate collection system improvements that may be needed in the future.

Although the site is not secured by a perimeter fence, access by trespassers and vehicles is quite limited by Raccoon Creek to the west, the perimeter ditch and agricultural land to the north and east, and a gate to the south. No signage was observed at the site to indicate the presence of a dump or to warn of potential health threats.

The fill area is fairly well vegetated with the exception of the ongoing hard fill/spoils disposal operation at the northern fill area limits. The spoils disposal is being conducted by the city to fill in a low area previously used to borrow soils from for site improvements along Raccoon Creek in the late 1970s. Completion of spoils filling in this area of the site will promote positive storm water drainage and help to minimize leachate generation. Hard fill and spoils are being obtained by local city construction projects. This area is being covered and seeded when appropriate grade is achieved.

The dump's highest point is located at the southern fill limits and slopes gradually from there to the north (See Figure 3: Site Topographic map). The perimeter toe-of-slope along Raccoon Creek is steep, ranging from 1:1 and 2:1 in most areas. Rip-rap stone is placed in a few areas along Raccoon Creek to control erosion. Toe-of-slopes along the south, east, and north sides are generally less steep. The southern-central fill area and south-eastern toe-of-slope was recently re-graded and additional cover soils and seed added to promote positive drainage and address erosion areas and leachate seeps. Cover soils across the site range in thickness from 4 to 8 feet based on borings

conducted during this SRA. Assuming a waste thickness of 12 feet across the entire fill area, a maximum waste volume estimate of 193,600 yd^3 is derived. The actual waste volume is expected to be much less than this figure based on information obtained from boring logs.

There are no on-site groundwater monitoring wells; however, there is reportedly a hand dug well or spring exhibiting artesian conditions at the junk yard approximately 650 feet west of the fill area. The status of this well/spring was not verified during this assessment. Should artesian conditions exist at this well/spring location, they are suspected to be more associated with a shallow saturated ground water bearing unit rather than the confined bedrock aquifer.

Whirlpool Corporation is located upstream of the site, but is no longer discharging process waters directly into Raccoon Creek. Process waters have been discharged to the city sanitary sewer system since 1989. Storm water is still discharged through permitted outfalls into Raccoon Creek upstream of the site. Numerous foam ear plugs were seen in the creek and are suspected to be from Whirlpool's storm water outfalls.

The Clyde WWTP is a major contributor to the flow in the stream averaging 1.7 million gallons per day, of which 96,000 gallons per day is treated from the village of Green Springs. The average annual flow of Raccoon Creek in the area of the site is 5 ft^3/sec, half of which is provided by the WWTP. The stream bed of Raccoon Creek is primarily sand and gravel overlying hardpan clay.

Several leachate outbreaks were observed along Raccoon Creek during the site walk and at the time of sampling. These outbreaks had minimal flow, and were primarily located in previously repaired areas of historic leachate outbreaks and erosion. Large rip-rap stone has been placed in these areas to control erosion due to a lack of adequate vegetation.

Raccoon Creek contains primarily fine and coarse grain sands with very little finer grained (silt & clay) sediment. Disturbance of sandy sediments generated a light discontinuous oily sheen. At the time of the reconnaissance visit, a very light oily sheen was present on the water surface. This sheen was suspected to be related to the WWTP discharge and urban runoff from the Clyde area. A couple tiles were noted entering the creek from the west bank. These tiles are discharging storm waters from properties to the west, including the junk yard and commercial businesses along Woodland Avenue. Automobile parts (tires, plastic and steel parts) were noted throughout the creek bed, mostly just downstream of the site.

Several drums have historically been documented in both Raccoon Creek and the site's perimeter drainage ditch, but have since been removed by the city of Clyde. These drums contained dried paint sludge bottoms and are suspected to be wastes from the former Clyde Paint & Supply Company. The Clyde Paint & Supply Company site is located adjacent to Raccoon Creek just upstream of the Whirlpool plant. The drums previously noted in Raccoon Creek that are discussed in this paragraph resulted from historical disposal operations at the dump site. Impacts to Raccoon Creek from Clyde Paint & Supply Company site are currently unknown.

Photographs were taken during the site walk and sampling event and are contained in Appendix C. Figure 5 contains a map depicting the locations of where photographs were taken.

3.2 Site History

The dump site has been owned by the city of Clyde during its existence. Open dumping operations are known to have existed since the 1930s based on interviews and review of historical aerial photos. Operations were contracted on at least one occasion to Mr. George Snyder and Mr. Larry Fultz, joint partners in a private trash hauling business. Mr. Snyder's half of the trash hauling operation was purchased in 1968 by Mr. Fultz. Mr. Fultz denies ever managing the site for the city of Clyde. According to Ohio EPA files, Mr. Fultz burned Whirlpool Corporation's "rubbish" at the Clyde Dump for a monthly fee of $300.00. Both Mr. Snyder and Mr. Fultz were police officers for the city of Clyde, but the dump operations were not part of their police responsibilities.

Based on documents in Ohio EPA files, the Clyde Dump accepted for disposal a wide variety of wastes from municipal, commercial, and industrial sources. The Whirlpool Corporation and its predecessor companies along with the Clyde Paint & Supply Company were the primary industrial waste generators that utilized the Clyde Dump for disposal purposes.

Clyde Paint & Supply Company was a relatively small paint recycling operation that did not directly discharge to Raccoon Creek. It has been closed since 1985. This site received a certification of closure for a hazardous waste storage area in 1990. The following wastes were known to be stored at this facility: K054, D002, D001, D007, and D008. Additional information pertaining to this facility's operations is available in Ohio EPA files.

City officials have indicated that no manifests or other disposal records are available for the site; however, specific wastes from Whirlpool are discussed in Section 3.3. Wastes deposited at the site included appliances, drummed paint, bulk enamel sludge, auto parts, waste oils, solvents, and asphaltic concrete. The majority of the industrial wastes were deposited in the south central portion of the fill area. The operators noted that waste oil and other liquid wastes would be emptied from drums onsite and the drums crushed. Flammable waste materials were frequently burned for volume reduction and to control odor and vectors.

According to Mr. Snyder, dumping operations prior to 1964 occurred on the ground surface in a swale area that sloped toward Raccoon Creek just north of the Clyde WWTP. From 1964 through 1968, Mr. Snyder excavated 10 foot deep trenches with a bulldozer. Trenches were primarily oriented north to south. Liquid sludge, oil, and paint and enamel wastes were deposited in both bulk and containerized form into the fill area. No liners were constructed in the below grade fill areas of the Clyde Dump. Mr. Snyder reported excavating into saturated sand at depths of 8 to 10 feet across the site.

The site ceased operations in late 1969 after receiving written notification from the local health department to "cover and abandon" the dumping operation. This directive was issued due to the implementation of the first solid waste law in the State of Ohio, promulgated in 1968. Although the city formally ceased operations at this time, they still occasionally placed soil, demolition debris, hard fill, and yard wastes at the site for the next three decades. This indiscriminate dumping and poor cover at the site resulted in numerous environmental problems arising in the early to middle 1970s. Plans were developed in 1971 to convert the dump into a community park, but were never implemented. These plans are available for review at the city administration building.

In 1977, J. A. Schultz & Son (construction contractor) and Floyd Browne Associates (engineering consultant) were hired by the city of Clyde to conduct remedial activities at the dump site in response

to requests from Ohio EPA and the Sandusky County Health Department. A large borrow area was excavated six feet below natural grade in the northern unfilled portion of the property to obtain clay soils for the project and to create a disposal area for waste relocation. Waste was removed along Raccoon Creek and deposited into the borrow area excavation. A portion of the borrow area was left unfilled at the northeast corner of the site upon completion of the project and it eventually filled with rain water. A perimeter drainage ditch was constructed during this project along the east and north fill boundary to prevent off-site discharges to neighboring properties. This ditch discharges into Raccoon Creek at the northwest corner of the property. Portions of the east perimeter ditch were located very close to the waste near the southern central limits of fill. Plan drawings of this work effort are available in Ohio EPA files. There is no documentation in the files pertaining to a project completion report.

Also during the late 1970s, the city of Clyde settled a lawsuit for alleged property damage to 3.5 acres of farm ground adjacent to the north property line of the fill area. Runoff from the landfill was alleged to have contaminated the soil leaving it useless for agricultural purposes. Part of that settlement may have included transfer of the impacted property to the city of Clyde, which was then used for soil borrow and waste disposal purposes mentioned in the preceding paragraphs.

Whirlpool constructed a distribution center adjacent to their manufacturing facility in Clyde in the early 1990s. Considerable quantities of soil material from the construction project were placed on the fill area of Clyde Dump to enhance the existing cover material. Some of this soil may have been impacted by contaminants from historical manufacturing operations on the property.

According to Ohio EPA file correspondence from 1978 until 2003, the 1977 remedial work was not completely successful at controlling leachate discharges from the site. Limited dumping continued to occur by the city of Clyde during this time period. Dumping activity occurred primarily in the northern part of the site in the former borrow area that was partially filled with the 1977 relocated waste debris. Materials that were dumped included yard wastes lime sludge, and construction and demolition debris. As indicated previously, the city of Clyde still disposes of hard fill and spoils from local construction projects in the former borrow area.

The Clyde Dump site is regulated locally by the Sandusky County Health Department through an approved solid waste program administered by Ohio EPA. Annual inspections and documentation of site conditions only occurs at facilities closed within the last 30 years. Since Clyde Dump ceased dumping operations more than 30 year ago, regulatory oversight is done on a complaint basis. Currently, the site has not formally entered into Ohio EPA's Voluntary Action Program. However, more recent site improvements have been conducted voluntarily by the city through an authorization approved by Ohio EPA. Details of this authorization are discussed in the next section. Ohio EPA has recommended in the past that the city of Clyde develop a schedule for, conduct, and document routine inspections and maintenance of the site.

3.3 Previous Site Work

Ohio EPA completed a preliminary assessment (PA) for the site in 1987. The PA recommended the site for additional investigation activities based on historical records and persistent leachate discharges to Raccoon Creek.

U.S. EPA's field investigation team contractor, Ecology & Environment (E&E), completed a screening site inspection (SSI) in 1990. The SSI report recommended additional investigation activities due to concerns of potential ground water contamination and surface water contamination from Polycyclic Aromatic Hydrocarbon (PAH) compounds found in samples collected from Raccoon Creek and in soil samples collected from the fill area.

Ohio EPA completed a focused site inspection prioritization (FSIP) and report dated March 28, 1995. The FSIP provided a review and update of the findings made during the SSI, but did not include any additional sampling. The FSIP report recommended that a site team evaluation prioritization (STEP) be completed to obtain more samples to further evaluate ongoing contaminant releases into the environment.

A CERCLA 104 (e) (2) information request was sent to Whirlpool Corporation. Their response dated September 14, 1995, noted that trash and other debris, industrial wastewater treatment sludge, and inert porcelain slurry were disposed of at the site until early 1970. Contaminants found at the site are indicative of their waste sludge, particularly barium.

Ohio EPA conducted additional sampling activities during the latter part of 1995 through a STEP under cooperative agreement with USEPA. The primary focus of the STEP was to investigate surface water and soil pathways for contaminant migration. Ground water was not evaluated at the site by sampling during the STEP because there are no monitoring wells. However, a residential well was sampled north of the site near the intersection of Woodland Avenue and Bookmeyer Road. Elevated levels of metals were detected in both on-site soil samples and sediment samples collected in Raccoon creek. Lower level organics (primarily BTEX, PAHs, & Pesticides) were also detected in some of the on-site samples, including leachate samples. The STEP report was not issued by Ohio EPA until 1998 due to staffing changes; however, the report did recommended to USEPA the formation of a site assessment team. Ohio EPA also recommended the site for a non-time critical removal action to properly cap the dump and to address ongoing leachate discharges to Raccoon Creek. The site was not selected for a non-time critical removal action.

Beginning in 2002, Ohio EPA conducted sampling at the site in preparation for a state lead enforcement action due to inaction on Ohio's 1998 STEP recommendation. By early 2004, Ohio EPA transmitted a formal recommendation to USEPA requesting a change in the CERCLIS status to "state-lead - other cleanup activity" and during a similar time period, Ohio EPA finalized its enforcement referral package. However, based on the results of the sampling and other enforcement related considerations, Ohio EPA decided to suspend the enforcement case later that year and instead encourage the city of Clyde to make voluntary improvements to the site in lieu of enforcement. Details of the enforcement case including analytical results from waste sampling are contained in a two volume report available for review in Ohio EPA files.

In February 2005, the city of Clyde requested authorization from Ohio EPA to implement voluntary improvements at the dump site to address the degraded site conditions. These improvements were approved by Ohio EPA in March 2005 and included waste relocation, regrading, capping, erosion control measures, leachate outbreak abatement, and seeding. Major work improvements under this authorization were completed by August 2008, and routine maintenance activities have been ongoing since that time. Plan drawings and other details of the 2005 authorization are available in Ohio EPA files. Appendix C contains the authorization request and approval documents. Documentation regarding routine maintenance activities may be available through the city.

In December 2009, Ohio EPA and the local health department responded to a citizen complaint regarding suspected leachate outbreaks along Raccoon Creek. These leachate outbreaks were confirmed upon inspection and were subsequently addressed by the city in July 2010. Additional work was completed on the southeast slope in June 2011 to address erosion and chronic leachate outbreaks.

Based on an inquiry from USEPA regarding CERCLA "other cleanup authority" status of this site, Ohio EPA in December 2010 scheduled a SRA for the 2011 federal grant commitment. In April 2011, Ohio EPA met with the new city manager, Paul Fiser, regarding the planned SRA and ongoing maintenance activities at the site. Discussion occurred regarding recurrent leachate outbreaks into Raccoon Creek. The city agreed to evaluate subsurface geologic data expected to be developed during the SRA and make recommendations for improvements to address long term leachate control. At that time, the city was considering the potential benefit of installing a leachate collection system that will tie into anticipated improvements to the WWTP east of the fill area. The schedule for the improvements to the WWTP is not yet established. Written access for Ohio EPA to conduct the SRA was subsequently received from the city in May, 2011.

3.4 Site Geology, Soils, Topography and Hydrology

The Ohio Department of Natural Resources' (ODNR) Bedrock Contour Map of Sandusky County indicates that the average bedrock elevation in the vicinity of the site is about 580 feet. Information from the United States Geological Survey (USGS) 7.5' Quadrangle Map of Clyde, Ohio indicates that the surface elevation is 650 feet. Therefore, the anticipated depth of bedrock is approximately 70 feet below natural grade. The bedrock surface generally slopes down to the north toward Lake Erie. In Sandusky County there is a buried bedrock valley, which begins in central Seneca County near Tiffin. The axis of the buried valley follows the present day course of Green Creek north through Sandusky County, toward Sandusky Bay. The eastern edge of the buried valley is located about 2.7 miles west of the center of Clyde, and therefore, is not anticipated to be present underneath the Clyde Dump.

The 1961 Glacial Geology Map of Ohio shows the surface deposits (till) were formed by advancing ice sheets during Pleistocene time (10,000 to 2,000,000 years ago). Direct evidence suggests that only deposition from the most recent glacial stage, the Wisconsinan, is present in the Clyde area. The Wisconsinian stage deposits are approximately 14,500 to 19,000 years old. Two types of glacial deposits are present at the surface in Sandusky County; Lacustrine Deposits and Ground Moraine Deposits.

Sandusky County was also covered by the Lake Warren stage, of a glacial meltwater lake which existed before present day Lake Erie. The Lacustrine Deposits form a triangular shaped wedge which covers most of the surface in the north central and northeastern portions of the County. The Lacustrine Deposits are characterized by fine grained sediments, primarily silts and clays, which are commonly laminated. The Ground Moraine Deposits are characterized by an unsorted unstratified mixture of clay (hardpan), silt, sand, and coarser rock fragments deposited discontinuously by ice advancing over bedrock or older glacial deposits. The City of Clyde is located very close to the edge of a northeast to southwest trending fringe of the Lacustrine Deposits, which splits Green Creek Township nearly diagonally. The Clyde Dump site appears to be located in a transitional area between the Lacustrine Deposits and the Ground Moraine deposits.

ODNR's Ground Water Resources Map of Sandusky County, Ohio" (1980) indicates that there are two types of Hydrogeologic units capable of supplying ground water in Green Creek Township. The first area is the sand and gravel lenses contained in the glacial till in a buried bedrock valley. This buried valley has already been discussed in the section regarding the ODNR bedrock contour map, and is over two miles west of the Clyde Dump. The Clyde Dump site is located in an area which the map indicates that the bedrock is the significant aquifer. The aquifer is confined by the overlying clay-rich till, and the actual water table (potentiometric surface) is at or near ground level. For example if a well was drilled to bedrock, the water would flow at the surface without pumping. This area of flowing or artesian wells extends northeast to Castalia, and is responsible for the formation of Millers Spring, Poorman's Spring, and the well-known Castalia Blue Hole.

ODNR's Ground Water Pollution Potential of Sandusky County, Ohio, Report No. 19 (1991) has some information on glacial and bedrock geology. The bedrock aquifer is described as the Silurian Age Salina Group, a thin to massive bedded dolomite (calcium-magnesium carbonate) with argillaceous to shaly layers, vuggy porosity, and zones of gypsum or anhydrite (calcium sulfate). The term "vuggy porosity", indicates that the rock contains voids (Vugs) ranging in size from 0.5 inches to 10 feet in diameter. Vugs are often lined with different kinds of crystalline minerals. Two additional effects of the gypsum mineralization are noted in the vicinity of the site. The presence of calcium sulfate creates a high dissolved solids content, and naturally occurring sulfate reducing bacteria react with the gypsum to form hydrogen sulfide, which diminishes the aesthetic quality of the ground water.

Most of the upper surface of the bedrock is fractured. Some of the fractures were formed due to subaerial exposure of the bedrock after its oceanic deposition and the subsequent retreat of the shallow seas from which it was deposited. Other probable causes of this fracturing include the mechanical action of the glacial ice, isostatic adjustment from the weight of the glacier being removed, and the regional joint pattern. Solutioning of the gypsum which is present in horizontal strata along bedding planes is another mechanism which has opened fractures in the bedrock. Much of the porosity of the Salina Group appears to be due to fractures and solution voids. According to the above referenced publication, yields of up to 1000 gallons per minute are possible in the area east of the Sandusky River, including Clyde.

Paragraph three of page 23 of the above referenced publication is quoted herein in regard to the usability of the glacial till as an aquifer:

"The tills of Sandusky County <u>do not</u> constitute a regional aquifer. Lenses of sand and gravel within or between till units comprise a limited local aquifer suitable only for domestic use. Wells developed for this use are predominately found between Green Springs and Clyde. Yields are typically under ten gallons per minute."

The 1994 FSIP report identified eight residential wells located within an approximate 4500 foot radius of the site. Wells 1, 5, and 7 are located within an approximate 2500 foot radius of the site, and provide the best available site specific information which is examined in detail as follows:

<u>Well Log #1</u>

This log indicates that clay is present from ground surface to a depth of 63 feet. Gravel is present from 63 to 67 feet below ground surface, where limestone bedrock was encountered. Although the log does not describe the gravel, it is likely to be fractured and weathered bedrock. Because the

bedrock at this well location is covered by over 60 feet of relatively impermeable clay, the bedrock aquifer is the only significant source of ground water.

Well Log #5

This well is located approximately 500 feet due south of Well #1, and is the closest well to the site, approximately 2000 feet northwest of the northwest corner of the site. The log indicates that topsoil is present in the 0 to 20 foot interval below ground surface. Beneath the topsoil is a 15 foot thick layer of hardpan encountered in the 20 to 35 foot depth interval below ground surface.

The Glacial Geology Map of Ohio, has described "Hardpan" as a smooth surfaced deposit of till composed of unsorted and unstratified mixture of clay, silt, sand and coarser fragments deposited discontinuously by ice advancing over smoothed bedrock and older glacial deposits. Glaze (1972) takes the definition of "hardpan" further by describing it as a hard tightly cemented layer of ferruginous and calcareous material often found at the base of the till especially where it overlies sand and gravel. Literature also describes hardpan as a hard pebbly till of early Wisconsinian Age commonly located just above bedrock or on top of sand and gravel deposits which overlie bedrock in northwestern Ohio. From a geotechnical basis, "Hardpan" has blow counts ranging from 50/6" to 50/1" as observed in the field during the ASTM Standard D420 "Practice for Investigating and Sampling Soil and Rock for Engineering Purposes."

This log indicates that a sand and gravel deposit underlies the hardpan and is present to a depth of 55 feet below ground surface. From 55 to 60 feet below ground surface gravel is present, and bedrock was encountered at a depth of 60 feet below ground surface. The sand and gravel from 35 to 60 feet are likely to be hydraulically connected to the bedrock, and can be considered the same aquifer. As is the case with Well #1, the hardpan clay is also an upper confining layer.

Well Log #7

This well is located approximately 2500 feet to the east of the northeast corner of the site. The glacial sands and gravels encountered at Well #5 are absent at this location. The geology of Well #7 is very similar to Well #1 and consists of clay and hardpan to a depth of 43 feet where bedrock was encountered.

Some generalizations about the local hydrogeology within 2500 feet of the Clyde Dump site can be made from these three well logs. First, the bedrock aquifer is confined by the overlying clay and there is an upward component to the flow regime. This assumption is borne out by a review of the static water level data supplied in the well logs. The static water level was 3 feet at Well #1, where bedrock was encountered at a depth of 67 feet, artesian (flowing) conditions were found at Well #5, and the static water level at Well #7 was 1 foot.

The second observation is that if the information in Well Log #7 is correct, there is an apparent upward rise in the bedrock surface to the east of the site. This would indicate that there may be a northwest trending flow component underneath the site.

The third general observation is that the glacial sands and gravels present at Well #5 are not found at the other two well locations within a 2500 foot radius of the site. The glacial sands and gravels

present at Well #5 may represent an isolated lens shaped deposit, which is not uncommon in glacial geology.

The E&E SSI report contains a number of water well logs from an approximate three mile radius of the site. The last paragraph of page 5-2 of the E&E report is quoted herein:

"Most area wells draw from the Monroe Limestone aquifer. However, a few wells draw water from the glacial material (see Appendix E for well logs of the area of the site). It appears that although clay lenses ranging in thickness from 1 to 63 feet do exist in this area, the clay lenses are not continuous within a 3 mile radius of the site (see Appendix E). Therefore the bedrock aquifer and the glacial aquifer are hydraulically connected and constitute the Aquifer of Concern (AOC). Based on well logs of the area, depth to the AOC may be as shallow as 12 feet."

The E&E SSI report has made a very broad generalization in assuming that the bedrock aquifer and the glacial aquifer are hydraulically connected within a three mile radius of the Clyde Dump site. The information from the ODNR publications "Ground Water Resources Map of Sandusky County" and the "Ground Water Resources Map of Sandusky County, Ohio" do not support this conclusion. The usage of the term "clay lenses" in the preceding paragraph implies that the glacial till does not confine the bedrock aquifer, when in actuality based on all of the available information; the bedrock aquifer is confined by the glacial till in the vicinity of the site.

The isolated sand and gravel units disseminated in the glacial till do not comprise a significant local aquifer which is hydraulically connected to the bedrock. While it is possible to obtain groundwater from the sand and gravel lenses, these deposits are isolated and not expected to be laterally continuous in the area of Clyde Dump. The bedrock aquifer in the vicinity of the Clyde Dump is likely to be confined by the overlying glacial till. While there is a sand and gravel lens present in the vicinity of well log #5, the sand and gravel is still separated from the ground surface by 35 feet of hardpan and topsoil. Reportedly, there is a flowing hand dug well/spring present at the former junkyard on the opposite side of Raccoon Creek immediately to the west of the Clyde Dump. It is also likely that artesian (flowing well) conditions would be present at the Clyde Dump site if a well were to be constructed into the regional bedrock aquifer.

Site specific geologic and hydrologic information was gathered during the SRA sample event. A full report is contained in Appendix D and is discussed in general terms in section 4.1 below.

3.5 Local History and Demographic Information

The city of Clyde is located in northwest Ohio on land that historically contained a forested area on the eastern edge of the Great Black Swamp. It was first settled in the early 1820s. It was named after Clyde, New York and is known for pioneering ventures during the automobile revolution in the early 1900s. The Elmore Car manufacturing facility was located on Amanda Street, which is now the current site of Whirlpool Corporation.

According to the United States Census Bureau, the city has a total area of 4.4 square miles containing mostly land and very little water. As of the 2000 census, there were 6,064 people, 2,304 households, and 1,633 families residing in the city. The population density was 1,381.5 people per square mile. The median income for a household in the city was $39,764, and the median income for a family was $45,646. The per capita income for the city was $17,966. About 6.8% of families and

8.6% of the population were below the poverty line. 4-Mile Radius Maps and Demographic Data tables are contained in Appendix F.

4.0 SAMPLE LOCATIONS & ANALYTICAL RESULTS

Surface water, sediment, and soil samples, were collected during the SRA. A photographic log of sampling locations can be found in Appendix C. Figure 5 contains a map depicting the locations of photographs. As indicated above, ground water samples were not collected during the SRA because a viable water bearing unit was not present between the bottom of waste and the hardpan clay layer.

Samples were analyzed by USEPA Contract Laboratory Program laboratories. Analyses included the following parameters: Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), pesticides, PCBs, and TAL metals. Complete analytical results of this investigation are contained in Appendix E. Data were reviewed by USEPA, Region V, personnel for compliance with the Contract Laboratory Program, and validated by Region V, Central Regional Laboratory staff.

Significant detection data tables were developed based on USEPA Hazard Ranking System guidance. Background was determined by averaging the concentrations between the two collected background sample parameters for each media sampled. All significant detections are in both bold font and red shaded cells in the data tables. Some elevated contaminant concentrations were compared to USEPA Regional Screening Values (RSVs) for discussion purposes in this section and the pathways section of this report.

Standard Quality Assurance and Quality Control (QA/QC) procedures for Site Investigation (SI) field activities were followed during the investigation. These procedures, including sample collection, packaging and shipping, and equipment decontamination, are documented in the Quality Assurance Project Plan (QAPP) for Region V, Superfund SI Activities for Ohio EPA and Ohio EPA Field Standard Operating Procedures.

4.1 Groundwater

The groundwater pathway was investigated during this SRA utilizing a GeoProbe® 5410 rig. Temporary groundwater monitoring wells were scheduled to be installed in four locations around the perimeter of site, but no saturated units capable of being monitored were found to exist above the hardpan clay. The hardpan clay layer was encountered at pre-fill depths of approximately 8 feet to 11 feet across the site or at approximate elevations of 641 to 634 ft from mean sea level (MSL). The hardpan clay encountered during boring installation quickly stopped tool advancement (refusal conditions), thereby preventing additional subsurface investigation. As a result, no ground water samples were able to be collected during the SRA. The locations of these planned wells are shown in Figure 4-2 and labeled GP-1 through GP-4. Two of these borings (GP-3 & GP-4) were utilized for characterization of local background soil conditions. Although borings GP-5 through GP-8 were advanced within the fill area (fill borings) primarily to obtain soil and leachate samples at the waste-till interface, geologic stratigraphy and hydrogeologic information was also recorded during continuous coring. The maximum depth of fill borings targeted the waste/till interface to minimize the potential of creating a vertical preferential pathway for contaminant migration beneath the limits of fill.

A shallow partially saturated sand unit (SW, SM, SC & SP soil classifications) was observed at the ground surface at boring locations GP-2 and GP-4 and extends to depths of 4 and 6 feet below ground surface, respectively. These two borings are located outside the limits of fill; GP-2 being at the southeast corner of the site and GP-4 being at the northwest corner of the site at Raccoon Creek. Similar sand units were seen at corresponding elevations in fill borings GP-5 through GP-8, indicating the unit may have been or remains continuous across the central and southern portions of the fill area (See Figure 6 for geologic cross section maps). This unit is saturated in the bottom 1 foot at boring GP-2, saturation expands to 8 feet or more in thickness across the bottom of the unit within the fill area, and then reduces back to 2 feet in saturated thickness at the bottom of the unit at boring GP-4. Based on information obtained from the fill borings, this partially saturated unit is in direct contact with waste materials. The base elevations of the unit slope toward Raccoon Creek similar to the hardpan layer, indicating that horizontal flow in the unit is to the west-northwest. Raccoon Creek is the likely discharge point of perched water and/or leachate impacted ground water from this unit as vertical movement is limited by lean clays and the hardpan layer below it. The above conditions are suspected to be causing leachate outbreaks at the dump site along Raccoon Creek.

In the vicinity of GP-2 at the southwest corner of the site, this saturated unit is commonly discharging clear ground water to the ground surface during wet conditions. Disturbance of the upper till in this area from the natural gas pipeline installation and filling operations at the dump has likely created a pathway to the ground surface. The lateral extent of this unit to the east of the site is unknown, but is suspected to be a source of incoming ground water that contributes to the generation of leachate within the fill area. The shallow perimeter leachate collection tile in this area is suspected to be influenced by water in this unit based on a comparison of elevation data collected during the SRA. A complete report containing information pertaining to the site specific geology and hydrogeology, including boring logs and a geologic cross section map of the fill area, can be found in Appendix D.

Due to the presence of an apparent continuous hardpan clay layer located beneath a relatively shallow saturated sand unit that discharges to nearby Raccoon Creek, there is no reason to suspect that the regional bedrock aquifer is being impacted by contaminants leaching from the dump. Also, ODNR literature suggests that any limited domestic use of intermittent glacial till aquifers in Sandusky County is occurring several miles south of the site from the city of Clyde toward the village of Green Springs.

4.2 Surface Water

Surface water samples were obtained from seven locations along Raccoon Creek, beginning downstream of the site and ending upstream of Whirlpool Corporation. See Figure 4-1 for sample locations. Samples collected in the creek adjacent to the site (Samples SW-3, SW-6, and SW-8) were from areas of historic intermittent leachate outbreaks. Additionally, two leachate samples were collected; one from within waste borehole GP-7 (Sample L-10) and the other from a sump (Sample L-9) located in the northeast corner of the site that is connected to a perimeter leachate collection tile. Two background water samples (SW-1 and SW-7) were collected upstream of the WWTP.

Sample SW-6 is mostly representative of the WWTP effluent and was collected just downstream of the mixing zone. Due to low flow conditions in Raccoon Creek upstream of the WWTP at the time of sampling, surface water samples SW-8, SW-3, SW-2, and SW-4 are also mostly representative of WWTP effluent. Sample SW-3 was collected in the mixing zone area just downstream of where the

perimeter drainage ditch enters Raccoon Creek. There was no flow in the perimeter ditch at the time of sampling.

Inorganic sample results indicate the presence of elevated metals in leachate, with the highest concentrations occurring in sample L-10 taken directly from waste boring GP-7. Elevated metals were also observed in leachate sample L-9 taken from the leachate collection system sump; although, the concentrations were significantly less than sample L-10. This indicates that the movement of heavy metals contained in leachate is being limited by the waste itself, native soil, and clay cover soils. The intermittent nature and low flow of leachate within leachate outbreak areas is also suspected to be limiting the movement of heavy metals to the surface water pathway.

Significant detections of contaminants from all water samples are listed in data table 1. There were no significant organics detected in the water samples, but there were some significant inorganic metal detections primarily in the two leachate samples and to a lesser extent in sample SW-6.

While elevated detections of numerous metals were noted in leachate samples, concentrations of these same metals within the waters of Raccoon Creek were either greatly diminished or not detected. The significant detections of metals in surface water are more likely attributed to the effluent from the Clyde WWTP and/or other upstream sources rather than leachate discharges from the site.

4.3 Sediment

Sediment samples were obtained from seven locations along Raccoon Creek in the same general area as the surface water samples. Samples collected adjacent to the site (SE-3, SE-6, and SE-8) were biased toward the east stream bank in areas of historic intermittent leachate outbreaks. See Figure 4-1 for sample locations. Very little fine grain sediment exists in Raccoon Creek within the study area due to the lack of stream meanders and high flow rates from local urbanization. These conditions cause scouring of the creek bed which moves sediment far distances downstream during storm events. The creek bed in the assessment area consists mainly of course grain sand, gravel, and rocks overlying hardpan clay. Sediment samples were collected from areas in the creek containing features that tend to accumulate finer grain particles, such as behind log jams and large rocks. Sediment collected during this assessment is expected to be indicative of more recent deposition due to current stream conditions. Significant detections of contaminants from all sediment samples are listed in data table 2.

Inorganics detected at significant levels both adjacent to the site and downstream of the site include the metals Cobalt and Potassium. Cobalt is the only metal that may be attributed to the site based on the analysis of leachate and onsite soils. The highest Cobalt concentration in sediment occurred in sample SE-3 at 15.4 mg/Kg, well below the non-cancer residential RSV of 23 mg/Kg.

Organic sample results from sediment indicate the presence of contaminants at very low levels for certain volatile, semi-volatile, and pesticide parameters. Many of these contaminants were also observed in the background sediment samples at higher concentrations than samples taken at the site and downstream of the site. There were no PCB contaminants detected in any of the samples.

Volatile contaminants mostly associated with petroleum fuels (gasoline) were observed in most release (non-background) samples at estimated concentrations. Ethylbenzene and Xylenes were

observed in all release samples (with the exception of SE-6) at maximum estimated concentrations of 0.87ug/Kg and 1.9 ug/Kg respectively. 1,4-Dichlorobenzene was detected in all release samples with a maximum concentration occurring in sample SE-3 of 0.95 ug/Kg. Toluene and 2-Butanone were the only significant volatile detections occurring in sample SE-3 at 200 ug/Kg and 24 ug/Kg respectively. 2-Butanone was observed in the background sample just upstream of the site at an estimated concentration of 8.1 ug/Kg. Both Toluene and 2-Butanone concentrations are well below residential RSVs.

Semi-volatile compounds Acetophenone and 4-Methylphenol were observed in most sediment release samples at estimated maximum concentrations of 12 ug/Kg and 160 ug/Kg respectively. Numerous other semi-volatile compounds (mostly PAHs) were observed in sediment release samples, but cannot be attributed to Clyde Dump because they are present in upstream background samples at similar or higher concentrations. PAHs in Raccoon Creek sediment are predominantly anthropogenic in nature and can be attributed to local urban runoff from the Clyde area. None of these detections are considered significant and most are below the residential RSVs.

Pesticides were observed in 3 of the 5 sediment release samples. Beta-BHC was detected at an estimated concentration of 0.5 ug/Kg in release sample SE-3 only. Dieldrin was observed in samples SE-3, SE-4, and SE-6 with a maximum concentration occurring in SE-3 at 3.7 ug/Kg. Delta-BHC and Heptachlor epoxide were only observed in sample SE-6 with an estimated concentration of 0.68 ug/Kg and 0.8 ug/Kg respectively. 4,4'-DDE was the only pesticide detected at significant concentrations in release samples SE-3 and SE-6, with the maximum estimated concentration of 8.1 ug/Kg occurring in sample SE-3. 4,4'-DDE was the only pesticide that was also detected in both upstream background samples at estimated concentrations of less than 2.0 ug/Kg.

Although many organic contaminants were observed in release sediment samples, most were at estimated concentrations and were also found in upstream background samples. Clyde is known historically as a hub for numerous railways that in addition to having crossings over Raccoon Creek, also contribute storm water drainage from their right-of-ways. Contaminants found in background samples are likely attributed to railways in town and other non-point sources. 4, 4' DDE and Toluene can be considered partially attributable to the site. However, the concentrations for these contaminants are well below the residential RSVs.

4.4 Soil

Soil samples were obtained from the surface and subsurface both within and outside of the fill area during this investigation. See Figure 4-2 for boring locations. Subsurface samples were collected at the base of fill near the waste/soil interface using direct push technology equipment. Exact depth intervals for subsurface sample collection are contained in the boring logs located in Appendix D. Surface samples were collected within the upper six inches of soil just below the root zone using hand shovels and spoons. Surface samples taken from fill areas were collected in the same general locations as the subsurface boring locations.

Two background locations (GP-3 & GP-4) were selected outside of the fill area where ground water wells were previously planned to be installed. Both surface and subsurface soil samples were collected from GP-3 & GP-4 for comparison purposes to samples collected from within the fill area. Inorganic sample results indicate the presence of heavier metals in both the surface and subsurface

soils at these background locations. Significant detections of contaminants from all soil samples are listed in data tables 3 & 4.

Elevated metals concentrations above background in the surface soil occur primarily at boring location GP-5, which is within the fill area. This area was void of vegetation at the time of sampling and the depth of cover soil is 8 feet. This cover soil is likely excess material from the expansion project at Whirlpool Corporation discussed in section 3.2. The analytical result for Lead in GP-5 surface soil (SO-5) is 188 mg/Kg, well below the residential RSV of 400 mg/Kg. However, its duplicate sample (SO-12) concentration is significantly higher at 708 mg/Kg. It should be noted that both results are reported as estimated due to laboratory QA/QC issues and this is the only parameter in the duplicate sample that does not correlate well with the original sample. The duplicate sample concentration for SO-12, although suspect for elevated Lead contamination, is below the industrial RSV of 800 mg/Kg. Cobalt is the only detected metal that exceeds the non-cancer residential RSV in surface soil at boring location GP-5, but is below the industrial RSV of 300 mg/Kg. All other significant metals detections in GP-5 surface soils and the other surface samples from borings GP-6 through GP-8 within the fill area are below residential RSVs.

Elevated levels above background of similar metals occurred in the subsurface primarily at boring locations GP-5 (Sample SO-4) and GP-6 (SO-6). Lead was the only metal that slightly exceeded the residential RSV in these two samples with an estimated maximum concentration of 646 mg/Kg occurring in sample SO-4. Lead was detected in all other subsurface samples well below the residential RSV.

Organic sample results indicate low levels of VOCs, SVOCs, Pesticides, and PCBs in most of the surface and subsurface samples taken within the fill area. BTEX, TCE, Acetone, Isopropylbenzene, and 2-Butanone are VOCs that were found intermittently in the subsurface waste samples. While these are considered significant based on the absence of these parameters in background samples, they are all well below residential RSVs and represent worst case conditions within the dump.

PAHs are SVOCs that were found in predominantly all surface samples at low estimated concentrations. PAHs were also mostly observed in the subsurface at boring GP-5 (sample SO-4) at higher concentrations above both residential and industrial RSVs. Again, these concentrations are considered significant based on the absence of these parameters in background samples, but they represent worst case conditions within the dump.

Pesticides were commonly detected at estimated significant concentrations above background in both the surface and subsurface soils. Dieldrin is the only pesticide that exceeded the residential RSV of 30 ug/Kg in all surface soils with a maximum estimated concentration of 170 ug/Kg occurring in the duplicate (SO-12) of surface sample SO-5. Sample SO-5 and its duplicate also exceeded the industrial RSV of 100 ug/Kg. Sample SO-5 was collected from boring location GP-5. Dieldrin is a bioaccumulator and is classified as a suspected human carcinogen according to USEPA, but is not classified as a carcinogen by ATSDR. Dieldrin is widespread and persistent in the environment and bonds tightly to soil particles. Exposure to Dieldrin in the environment usually occurs through incidental ingestion and can affect the nervous system at lower concentrations over repeated exposures.

Two PCBs (Aroclor 1254 and Aroclor 1260) were detected at significant concentrations above background and the residential RSV of 220 ug/Kg in surface sample SO-5 with maximum

concentrations of 4400 ug/Kg and 350 ug/Kg respectively. Aroclor 1254 also exceeded the industrial RSV of 740 ug/Kg in surface sample SO-5. Aroclor 1254 exceeded both the residential and industrial RSV in subsurface samples SO-4 and SO-8. Surface sample SO-5 and subsurface sample SO-4 were taken from boring location GP-5 within the fill area. Subsurface sample SO-8 was collected from boring location GP-7 within the fill area. These PCB congeners are also widespread and persistent in the environment and they bond tightly to soil particles. PCB congeners are also bioaccumulators and are classified as carcinogens by USEPA and probable human carcinogens by ATSDR. Exposure to PCBs can cause multiple health affects in humans.

The thickness of cover soils at the boring locations ranged from 4 feet at GP-7 to 8 feet at GP-5. Thickness of wastes ranged from as little as 1.5 feet at GP-6 to 12 feet at GP-7. Limited waste thickness observations in some of the boring locations could be from trench walls and other anomalies common to the area-fill disposal method.

4.5 Air

Air samples were not collected during the SRA.

5.0 MIGRATION AND EXPOSURE PATHWAYS

5.1 Ground Water

Residents near the site within the Clyde corporation limits utilize local public water that is obtained by a surface water reservoir system located south of the city. The city of Clyde operates this community public water system and serves a population of approximately 7,330 people, including water sold to the village of Green Springs to the south. The city of Clyde draws water from a surface water intake on Beaver Creek and pumps into the Beaver Creek above ground reservoir. Water is then gravity-fed from the Beaver Creek Reservoir to the Raccoon Creek Reservoir and then to the water treatment plant. The system's treatment capacity is approximately 2.4 million gallons per day, but current average production is 1.2 million gallons per day. The city of Clyde's water treatment system consists of coagulation, lime softening, sedimentation, filtration, adsorption, stabilization, fluoridation and disinfection.

The rural community commonly uses cisterns, hauled water, or a rural public water system due to the poor quality (taste & odors from the presence of hydrogen sulfide) of drinking water available from the regional aquifer. Although domestic use of water for potable purposes may be occurring from intermittent glacial till sources several miles south of the site, this practice is limited due to inadequate water flow and volume. Northern Ohio Rural Water (NORW) is the rural public water system in the area. The finished water supply for this system is provided under a cooperative agreement with the Erie County Sanitary District, which draws raw water from Lake Erie. It serves select areas within Green Creek, York, Sandusky and Riley Townships.

Due to the absence of a transport pathway from the site to the confined regional aquifer or to intermittent saturated till units, contamination of ground water resources is not expected. Shallow ground water beneath and nearby the site which may be impacted by site contaminants is suspected to be discharging into Raccoon Creek. Because most nearby residents utilize publicly available water

sources or the regional aquifer, the ground water pathway is not expected to substantially contribute to the site score due to the limited number of targets.

5.2 Surface Water

Extensive studies of Raccoon Creek in the vicinity of the site have occurred by Ohio EPA over the years due to major upstream impairment sources. The most recent study of Raccoon Creek occurred in 2009 by Ohio EPA. The findings of the study are contained in a report entitled Biological & Water Quality Study of Sandusky Bay Tributaries, 2010, and can be found on Ohio EPA's web site at the following address: http://www.epa.ohio.gov/dsw/document_index/psdindx.aspx, References to the findings in Raccoon Creek are made in the following paragraphs. Major historical and ongoing point sources of impairment include Whirlpool Corporation and the Clyde WWTP. Whirlpool previously discharged industrial wastewater directly into Raccoon Creek under a NPDES permit. Whirlpool is now an indirect discharger of industrial wastewater into the city sewer, while storm water continues to be discharged directly into the creek by permit. Clyde Paint & Supply Company is not considered a major upstream impairment source because there were never any permitted direct discharges from the site and the facility has been closed since 1985.

Clyde's current WWTP was constructed in 1986 and was significantly upgraded with treatment improvements in 2006. The plant discharges treated wastewater immediately upstream of the site. The system is designed to treat an average flow of 1.9 MGD and consists of primary and secondary aerobic digesters, a pair of oxidation ditches with clarifier, tertiary lagoons and UV disinfection. Thirty-five (35) percent of the sewage collection system in the city is combined with one CSO discharge to Raccoon Creek located at the head of the plant.

The Clyde WWTP is a significant point source of impairment to Raccoon Creek despite the upgrades to the plant in 2006. Sewage from the single CSO and excessive nutrient discharge from the Clyde WWTP contributes to organic enrichment and eutrophication in Raccoon Creek. Crop production with subsurface drainage was the most common nonpoint source of impairment in Raccoon Creek contributing to increased siltation/sedimentation, nutrient enrichment and channel erosion/incision downstream of the site. Poor biological and fish community conditions are well documented both at the site and several miles downstream of the site. Raccoon Creek is in non-attainment of its warm water habitat (WWH) aquatic life use designation from the Clyde Dump site to the confluence with Sandusky Bay.

Sensitive environments such as wetlands and managed wildlife areas exist in the 3 mile lower reach of Raccoon Creek where it discharges into Sandusky Bay. Most of these areas are owned and actively managed by private conservation clubs and the State of Ohio. Interconnection of the creek with most of these large wetland areas is very limited due to diking of both agricultural lands and managed wetlands to control water levels and flooding. According to Ohio Department of Natural Resources Division of Wildlife, only 170 acres of wetlands within a roughly 2,000 acre wetland complex may be subject to uncontrolled floodwaters within the 3 mile lower reach. Although water from Raccoon Creek is used to fill controlled wetland areas during extended dry periods, the water is most commonly transferred by non-mechanical means during seiche effect conditions. Seiche effect conditions occur during extended periods of strong northeast winds when water is blown from Lake Erie and Sandusky Bay into the lower reach of the creek, causing water levels to rise and stream flows to reverse. During seiche conditions, wooden sluice gates are opened to allow water from Sandusky Bay to flow into the controlled wetland areas naturally. While transfer of water from

Raccoon Creek to managed wetlands occurs at limited times by mechanical means (pumping), these occurrences are not the norm due to the added utility and maintenance costs.

The Raccoon Creek stream segment is approximately 11 miles from Sandusky Bay to Clyde Dump. In the middle to upper reaches toward Clyde Dump, four identified wetland areas exist that may interact with flood waters from the creek. They are located at 2 miles (7acres), 3 miles (9 acres), 4 miles (12 acres), and 6 miles (8 acres) heading downstream of the site. The extent of interaction with flood waters and the quality and type of wetlands at these private locations is unknown.

Raccoon Creek was recently recommended for primary contact recreation (PCR) in 2010. Recreation use attainment status is determined by comparing E. coli sample results. Raccoon Creek is impaired for recreational use due to the presence of pathogens. Sources of bacteria included combined sewer overflows from the Clyde WWTP, livestock access and/or runoff, and failing home sewage systems.

PCBs have been detected in sediment collected from Raccoon Creek near the confluence with Sandusky Bay, with concentrations of total PCBs at 281.5 µg/Kg and individual PCBs at 249 ug/Kg (Aroclor 1254) and 32.5 ug/Kg (Aroclor 1260) respectively. PCB levels at that location are such that probable aquatic impairment effects are occurring. The source of PCB contamination in this area is unknown, but potential sources include Clyde Dump (10 miles upstream) and Waste Management's Vickery Environmental Incorporated (WMVE) site, which is located 4 miles upstream via Little Raccoon Creek and Meyers Ditch. Aroclor 1254 was detected at estimated concentrations below 100 ug/Kg in two sediment samples taken on the WMVE site in 2008; however, no PCBs were detected above the laboratory detection limits in samples taken from Meyers Ditch and Little Raccoon Creek. The WMVE site is currently a deep well injection facility regulated under the Resource Conservation and Recovery Act. The facility is subject to corrective actions and formerly contained waste oil lagoons. Additional information on the WMVE site is available in Ohio EPA files.

The Clyde Dump may have also been a contributing source of PCB contamination based on data from this SRA, and from sediment data published in a 1997 Biological and Water Quality Study Report by Ohio EPA. This report can also be found on Ohio EPA's web site at the following address: http://www.epa.ohio.gov/dsw/document_index/psdindx.aspx. Although PCB congeners were not detected in sediment at or near the site from this SRA, the same congeners were detected in surface soils of the dump. Historic sediment contamination documented near the site in the 1997 report is suspected to have been scoured and then deposited downstream near the confluence with Sandusky Bay, where flow velocities are much lower. As previously indicated, PCBs may be of concern for the aquatic environment. These contaminants are also of concern to human health due to the potential for bioaccumulation up the human food chain. PCBs have been detected in bottom dwelling fish tissue throughout the 11 mile segment downstream of Clyde Dump. While fishing is not expected at or near the Clyde Dump site, it is likely occurring further downstream near Sandusky Bay along with the taking of other human food chain organisms such as frogs and turtles.

Historically, the surface water pathway has had the most potential for impact by the site due to erosion of waste areas and chronic leachate discharges directly into Raccoon Creek. Potential impacts to surface water from site contaminants have been a concern primarily due to fisheries designations and sensitive wetland areas identified downstream of the site. As previously indicated, most of the 2,000 acres of prime wetland habitat located 10 miles downstream are isolated from the creek by active management practices. The remaining five wetland areas identified nearer to the site

are of unknown quality and interaction with the creek, and together total 206 acres. See Figure 7 (maps 1 and 2) for locations of these five wetlands.

The frequency and quantity of leachate discharges and eroded soils/waste from the site into Raccoon Creek has been significantly minimized in recent years due to the implementation of routine maintenance practices by the city of Clyde. Although observed releases of leachate impacted ground water continue to be documented by both direct observation and sample data, the impacts to surface water are minimal at best due to intermittent leachate flows containing mostly low level metals. Severe impacts from sources containing similar pollutants in addition to other pollutant loads both upstream and downstream of the site overshadow possible impacts from the Clyde Dump site.

The contaminant probable point of entry from Clyde Dump is along the bank of Raccoon Creek where shallow impacted ground water is discharging from the toe-of-slope. These discharges are on relatively steep slopes along Raccoon Creek and are not easily accessible to trespassers. Leachate discharges east of the site are currently under control and can be managed by pumping from the leachate collection system manhole. Control of leachate impacted ground water discharges to Raccoon Creek can be addressed through improvements to the current leachate collection system and subsequent treatment at the WWTP.

5.3 Soil

Analysis of surface cover soils at the site indicate that contaminates may have migrated from the buried waste to surface soils in at least one area located near GP-5. However, this situation may also be due to impacted cover soils being brought in from off-site locations. While concentrations near GP-5 for Cobalt exceed the residential RSV, all other metals were below their screening value. PCBs and the pesticide Dieldrin were identified above background and at levels that exceeded both the residential and industrial RSVs. Some VOCs were detected at very low levels in subsurface soils taken at depth from within the fill area. No VOCs were detected in surface soils at significant concentrations. SVOCs, primarily in the form of PAHs were detected in surface and subsurface soils at elevated concentrations. However PAHs are anthropogenic and ubiquitous in the environment as evidenced by similar observations in background samples.

As indicated in Section 3.1 of this report, the Clyde Dump site has very limited access to the general public due to adjoining private property, physical deterrence from Raccoon Creek and the perimeter drainage ditch, and the fence and gate at the WWTP. City personnel conduct routine maintenance activities at the site such as mowing and erosion control. These activities (trespassing & maintenance) could create limited short term exposures to low level contaminants in surface soils.

Currently, the closest residence to the site is located 700 feet to the west along Woodland Avenue. Residents along Woodland Avenue utilize publicly available water. Warnecke subdivision has been platted for several years, but for the most part no roads, utilities, and homes have been constructed to date. The closest undeveloped lot to the site is approximately 220 feet away. Currently there are no administrative controls at the site such as warning signs to notify trespassers or adjacent property owners that health threats may be present on the property.

Ongoing maintenance by the city of Clyde to the cap and vegetative cover will continue to minimize the potential for contaminant exposure to trespassers, workers, and terrestrial animals. It will also minimize the potential for transport of contaminants to the surface water and air pathways by

weathering forces. Cover soil thickness over wastes ranged from 4 feet to 8 feet in the boring locations. Due to the limited number and type of contaminants at or near residential and industrial RSVs in surface soil, the soil pathway is not expected to substantially contribute to the site score.

5.4 Air

The air pathway (ambient air) was not directly evaluated during the SRA through utilization of fixed air monitoring devices. Air monitoring was conducted with a photo-ionization detector within work areas for sample screening and for worker health and safety purposes. No unusual conditions were observed while monitoring work areas. Waste areas at the site are predominantly covered with non-impacted soil and vegetation, which minimize the potential for contaminated airborne particulates to migrate from the site by the air pathway. Subsurface migration of explosive gas or other soil gases to structures is not suspected at this time due to the distances to nearby structures and the nature of the waste. Based on current site conditions, this pathway is not expected to substantially contribute to the site score.

6.0 SUMMARY

The nature and extent of the fill material at the Clyde Dump site has been fairly well delineated through completion of this SRA and previous sampling events. Industrial, commercial, and residential wastes were deposited in the dump at known depths and quantities. Contaminants from past disposal practices are present in leachate and surface soils. These contaminants are migrating to surface water through leachate seeps and to a lesser extent by erosion forces.

Despite the presence of these contaminants, adverse impacts to human health or the environment are suspected to be minimal due to current site conditions and based on the types and concentrations of the contaminants. Presently, any additive impacts to Raccoon Creek that may be occurring from leachate outbreaks cannot be fully determined due to pollutant loads from other sources in the watershed. Based on site specific hydrology and geology, leachate from the site is not expected to be impacting local or regional ground water resources.

PCB congeners noted in the sediment of Raccoon Creek 11 miles downstream near Sandusky Bay could potentially be partially attributable to this dump site and at least one other potential source. However, sediment samples taken during this assessment do not indicate that the Clyde Dump site is an ongoing source of PCB contamination at this time, based on data obtained at and near the site. Although PCB congeners were seen in surface soils primarily near boring location GP-5, they bond tightly to soils and appear to be immobile at this time. PCBs found in cover soils may be attributed to contamination at off-site sources where cover soils originated.

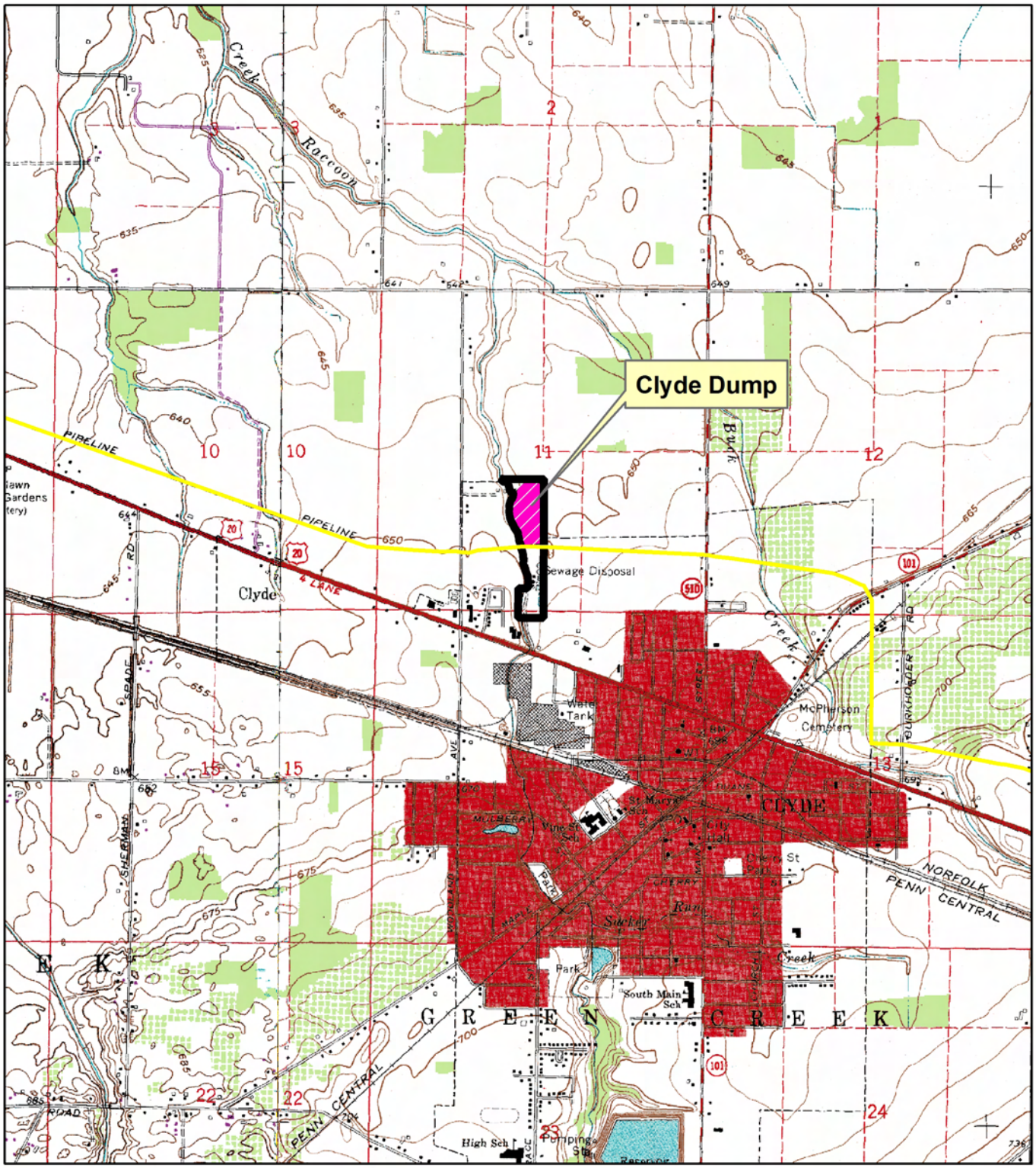
Improvements made to the site since 2005 and the implementation of routine maintenance activities by the city of Clyde has greatly diminished the environmental problems documented during previous site investigations. Placement of additional cover soils from proper sources and the establishment of a dense vegetative cover in a few bare spots would further minimize the likelihood of future exposure to workers and trespassers and contaminant migration to other environmental media. The city of Clyde has indicated a willingness to address persistent intermittent leachate outbreaks through containment system improvements, which would further minimize potential impacts to Raccoon Creek from uncontrolled discharges.

7.0 REFERENCES

1. 2000 U.S. Census Data
2. Ohio EPA STEP Report, 1998
3. Whirlpool Corporation September 14, 1995, CERCLA 104(e) Response
4. Site Files, Ohio EPA and Sandusky County Health Department
5. Aerial photos, Ohio Department of Transportation and Sandusky County Engineer
6. Ohio EPA, Biological & Water Quality Study of Sandusky Bay Tributaries, 2010
7. Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Tox FAQ
8. Ohio EPA, Biological & Water Quality Study of Raccoon Creek, 1997

APPENDIX A

Figures



Miles

0.5 0.25 0 0.5 1 1.5

Clyde 7-1/2 Minute Topographic Map
Sandusky County, Ohio

Figure 1
Site Location Map
Clyde Dump
Sandusky County, Clyde, OH

Ohio Environmental Protection Agency

Legend

- High Pressure Gas Line
- Property Boundary
- Waste Limits

N

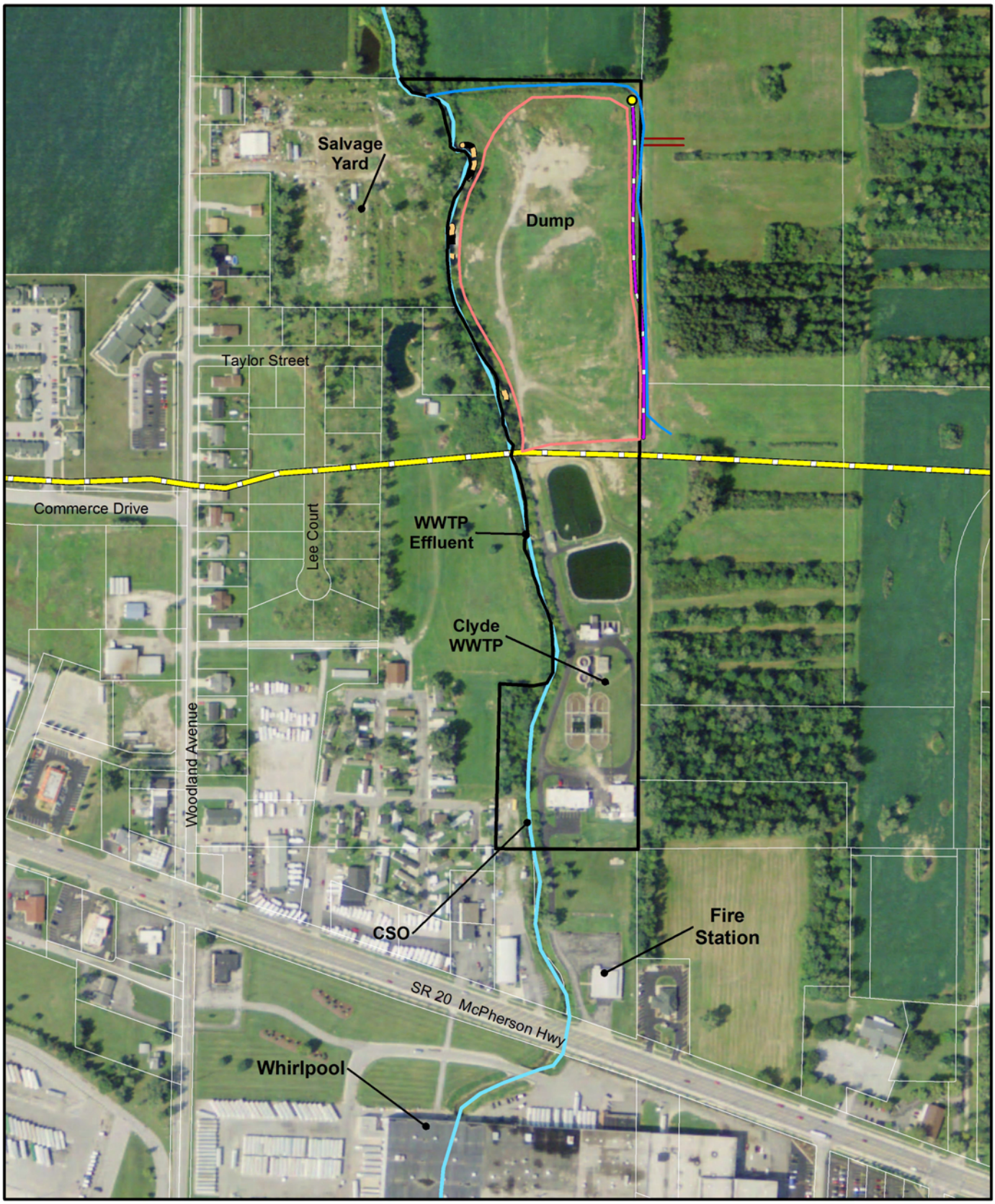


Figure 2
Site Features Map
Clyde Dump
Sandusky County, Clyde, OH
NAIP 2011 Imagery

0 145 290 580 870 1,160 Feet

N

Legend

- Ditch Line
- Waste Limits
- Property Bundary
- High Pressure Gas Line
- Field Tiles
- Perimeter Leachate Line
- RipRap
- Leachate Manhole

Ohio Environmental Protection Agency

0 75 150 300 450 600 Feet

N

Figure 3:
Site Topographic Map
Clyde Dump
Sandusky County, Clyde, OH
OSIP 2007 Imagery

Ohio Environmental Protection Agency

Figure 4-1:
Sediment and Surface Water Location Map
Clyde Dump
Sandusky County, Clyde, OH
OSIP 2007 Imagery

Ohio Environmental Protection Agency

Legend

N

Sediment/Surface Water Location

RevisedWasteLimits

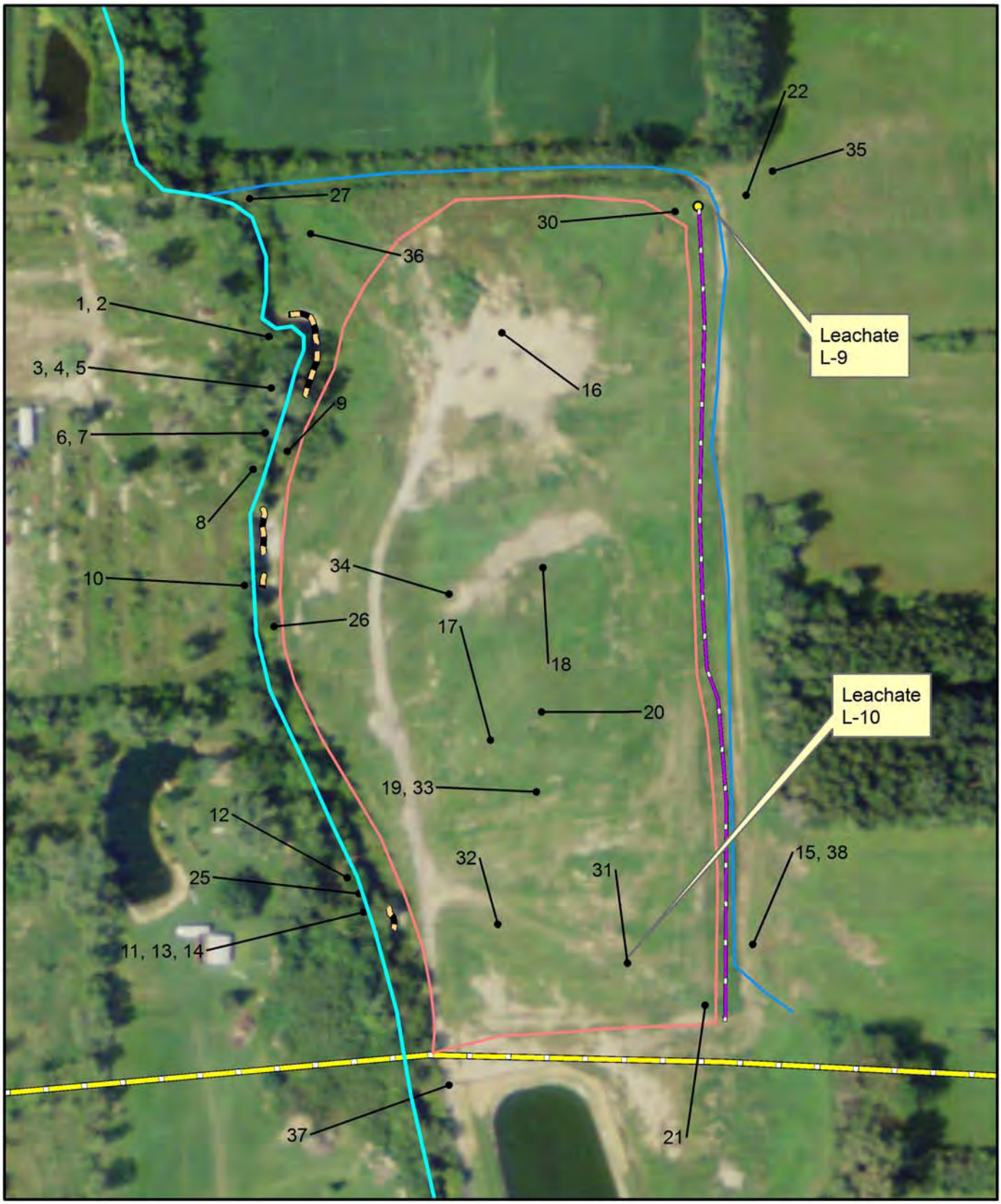
0 130 260 520 780 1,040 Feet

Figure 4-2:
Geoprobe Soil Sample Location Map
Clyde Dump
Sandusky County, Clyde, OH
OSIP 2007 Imagery

Ohio Environmental Protection Agency

Legend

- Geoprobe Fill Boring Locations
- Geoprobe Non-Fill Boring Locations
- Revised Waste Limits



0 62.5 125 250 375 500 Feet

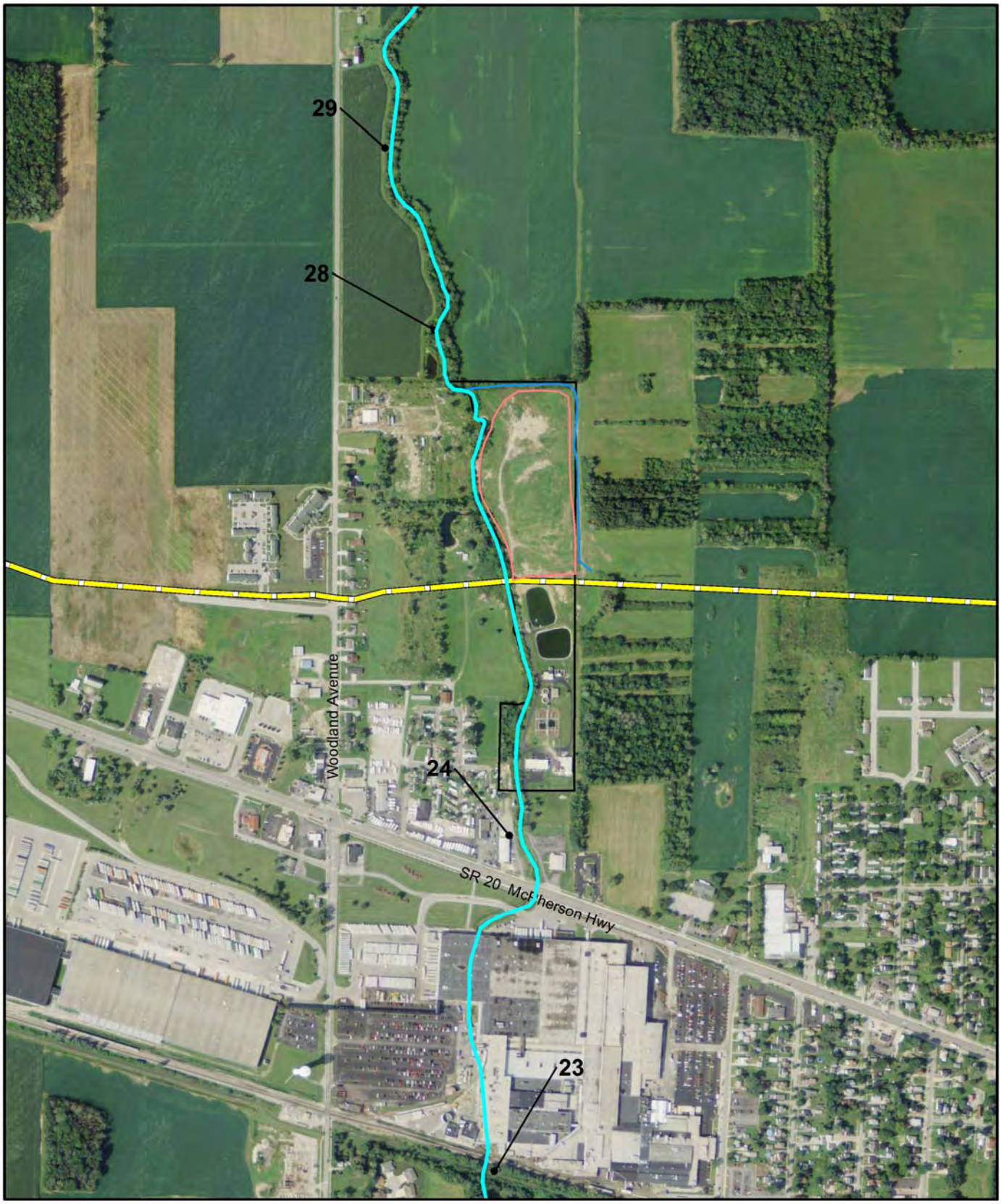
N

Legend

- Ditch Line
- Waste Limits
- High Pressure Gas Line
- Raccoon Creek
- Leachate Manhole
- RipRap
- Perimeter Leachate Line

Figure 5 (1 of 2)
Leachate Sample Locations & Photos Map
Clyde Dump
Sandusky County, Clyde, OH
NAIP 2011 Imagery

Ohio Environmental Protection Agency



0 295 590 1,180 1,770 2,360 Feet

Figure 5 (2 of 2)
Leachate Sample Locations & Photos Map
Clyde Dump
Sandusky County, Clyde, OH
NAIP 2011 Imagery

Ohio Environmental Protection Agency

N

Legend

- Ditch Line
- Waste Limits
- High Pressure Gas Line
- Raccoon Creek

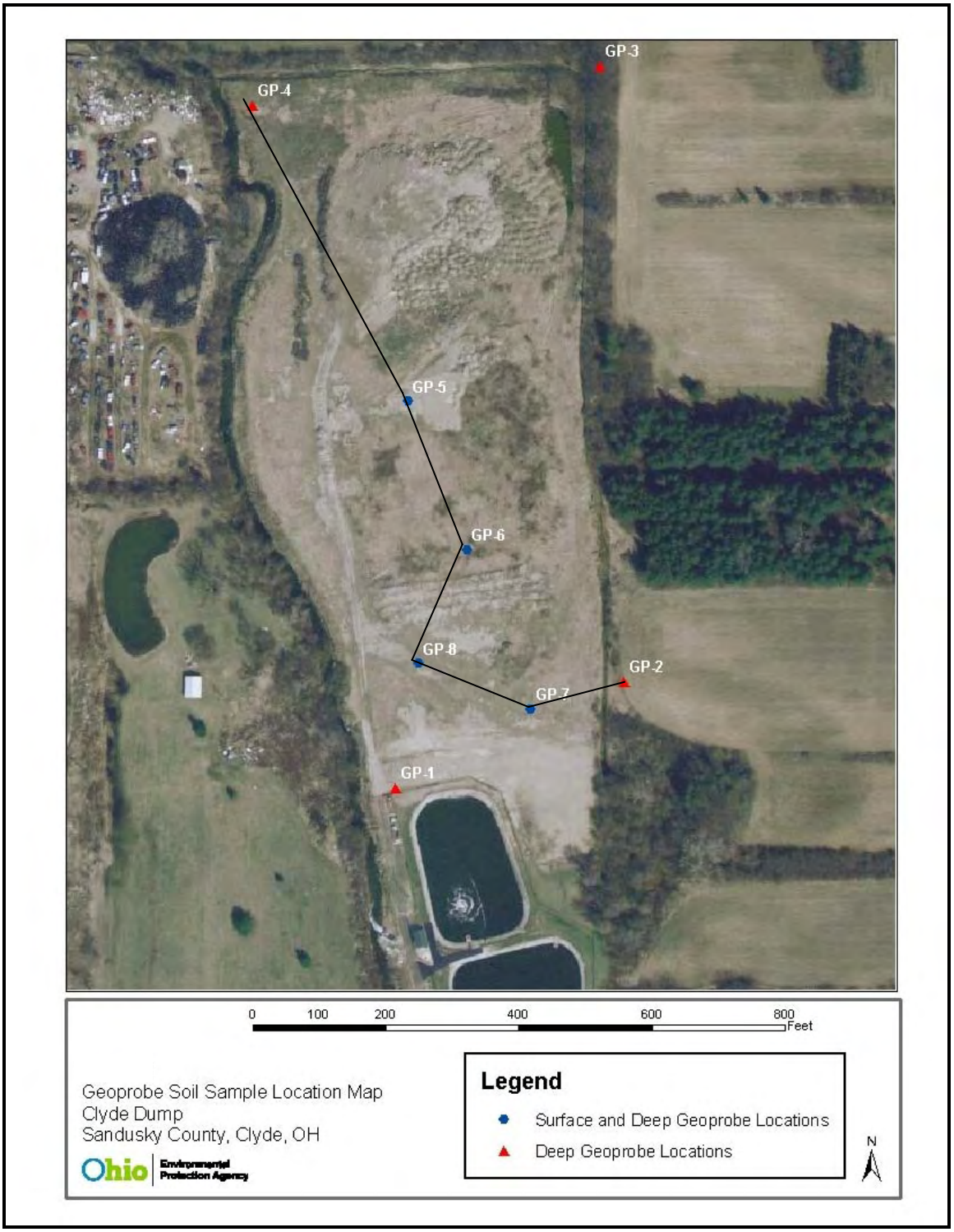


Figure 6: The soil borings are labeled GP-1 through GP-8 in this image of the Clyde Dump. Borings GP-1 through GP-4 are outside the limits of waste placement and borings GP-5 through GP-8 are inside the limits of waste placement. The black line in Figure 1 connecting GP-2 to GP-4 is the traverse of the geologic cross section shown in Figure 2.

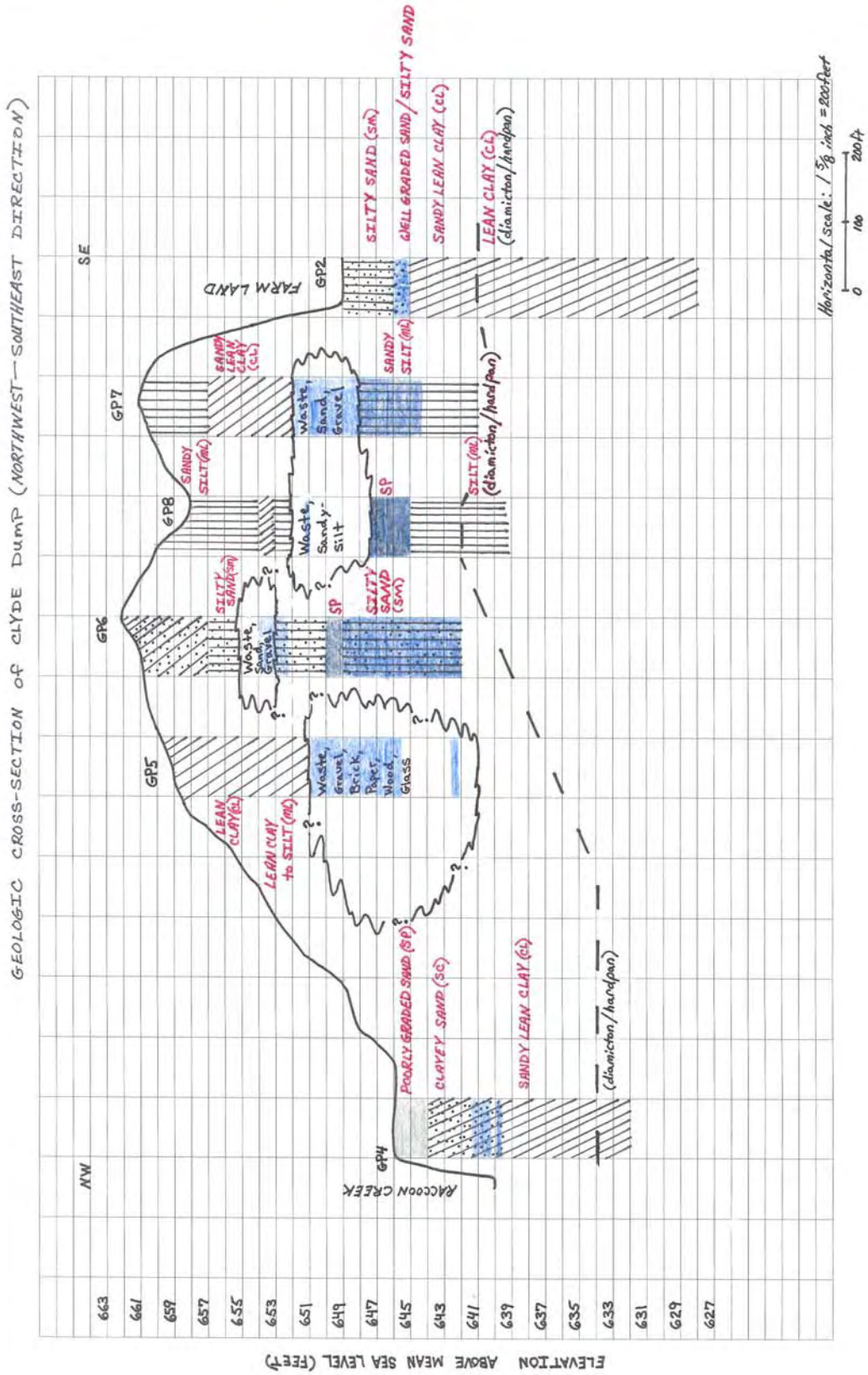
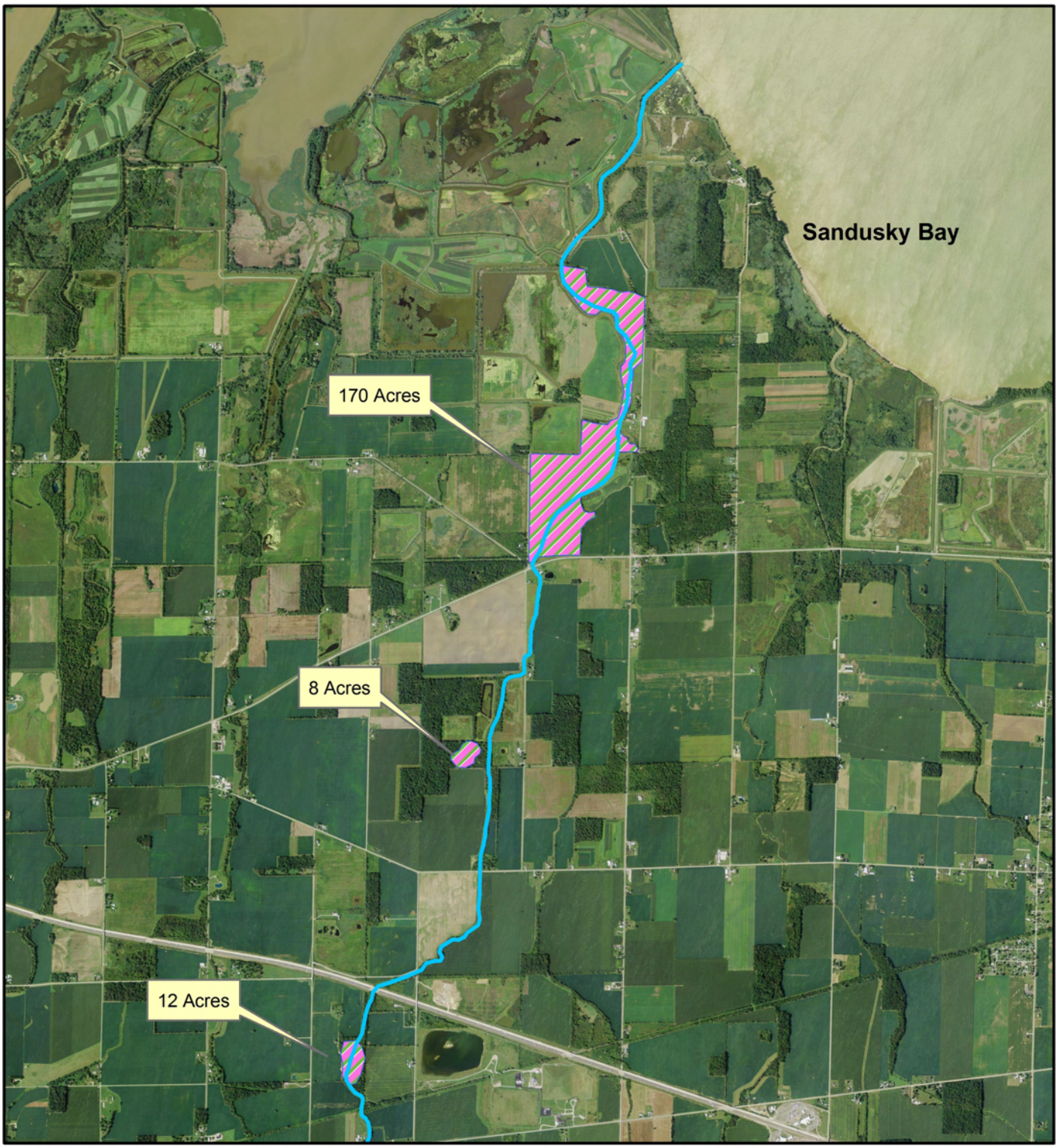


Figure 6: Saturated intervals are colored blue in this geologic cross section (see Figure 1). The dashed line marks the top of stratigraphic Unit 1.



0 0.25 0.5 1 1.5 2 Miles

Figure 7: (1 of 2)
Wetland Map - Lower Reach
Clyde Dump
Sandusky County, Clyde, OH

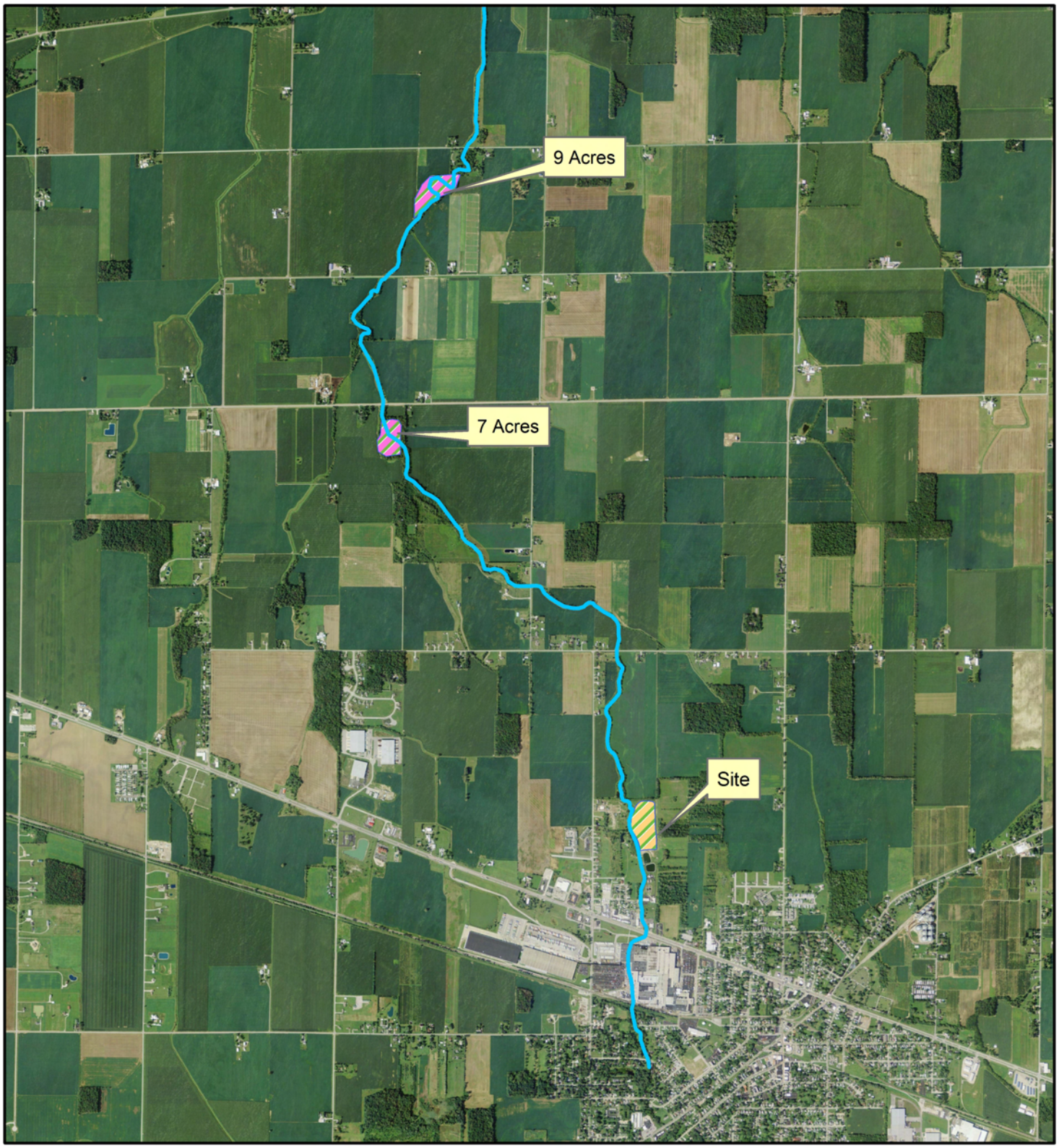
Ohio Environmental Protection Agency

N

Legend

RaccoonCreek

Wetlands



0 0.2 0.4 0.8 1.2 1.6 Miles

Figure 7: (2 of 2)
Wetland Map - Upper/Middle Reach
Clyde Dump
Sandusky County, Clyde, OH

Ohio Environmental Protection Agency

N

Legend

- RaccoonCreek
- Wetlands
- WasteLimits

APPENDIX B

Significant Detections Tables

Clyde Dump Site Reassessment
Table 1
Surface Water Inorganic Analytical Results
Metals Significant Detections

Sample Number :	ME5KS7		ME5KT3		ME5KS8		ME5KS9		ME5KT0		ME5KT1		ME5KT2		ME5KT4		ME5KT5		ME5KT5	
Sampling Location :	**SW-1**		**SW-7**		**SW-2**		**SW-3**		**SW-4**		**SW-5**		**SW-6**		**SW-8**		**L-9**		**L-10**	
	Background		Background								Dup of SW-4									
Matrix :	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	8/8/2011		8/8/2011		8/8/2011		8/8/2011		8/8/2011		8/8/2011		8/8/2011		8/8/2011		8/8/2011		8/8/2011	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	**7.5**	
CYANIDE	10.0	U	4.6	J	5.1	J	10.0	U	10	U	3.5	J	**27.1**		5.2	J	**10.7**		7.6	J
ALUMINUM	90.2	J	92	J	114	J	105	J	72.1	J	78.4	J	**523**		136	J	**3820**		**22300**	
ARSENIC	10	U	10.0	U	10.0	U	10.0	U	10	U	10.0	U	10	U	10.0	U	**18.6**	**J+**	**102**	
BARIUM	37.7	J	43.8	J	35.5	J	35.7	J	34.1	J	35.3	J	54.8	J	34.6	J	23.5	J	**1310**	
CADMIUM	5	U	5.0	U	0.12	J	5.0	U	5.0	U	5.0	U	0.15	J	5.0	U	5.0	U	**9.8**	
CALCIUM	64100		70500		74700		74600		71800		74000		77000		74100		18000		**359000**	
CHROMIUM	10	U	10.0	U	10	U	10	U	10.0	U	10.0	U	10.0	U	10.0	U	**67.1**		**75**	
COBALT	50	U	50.0	U	12.2	J	12.6	J	11.6	J	11.6	J	14	J	12.9	J	0.82	J	**78.6**	
COPPER	25	U	25.0	U	25.0	U	25.0	U	25.0	U	25.0	U	10.6	J	25.0	U	12.3	J	**728**	
IRON	258		278		144	J+	140	J+	100	U	101	J+	**1350**		185		**896**		**155000**	
LEAD	1.3	J	10.0	U	1.9	J	1.5	J	10.0	U	1.5	J	4.4	J	10.0	U	2.8	J	**2050**	
MAGNESIUM	13500		13300		11000		10900		10600		10900		12600		10700		16900		**82300**	
MANGANESE	42.2		56		16.7		15.3		11	J	11.8	J	**160**		18.1		84.8		**7020**	
NICKEL	2.4	J	3.1	J	12.5	J	12	J	11.5	J	13.1	J	13.6	J	13.8	J	5.7	J	**239**	
POTASSIUM	4710	J	5950	J	**25000**		**25200**		**24600**		**25500**		**25500**		**24900**		**35700**	**J**	**121000**	
SODIUM	44700		79700		**128000**		**130000**		**124000**		**129000**		**130000**		**130000**		**416000**		**1140000**	
ZINC	5.6	J	10.5	J	45.1	J	35.6	J	30	J	31.3	J	55.5	J	35.9	J	6.8	J	**4560**	

Legend

Analyte		
Background		
HRS Significant	**Bold**	

Clyde Dump Site Reassessment
Table 2
Sediment Organic Analytical Results
Volatile Significant Detections

Sample Number :	E5KQ6		E5KR2		E5KQ8	
Sampling Location :	**SE-1**		**SE-7**		**SE-3**	
	Background		Background			
Matrix :	Sediment		Sediment		Sediment	
Units :	ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	8/8/2011		8/8/2011		8/8/2011	
%Moisture :	22.8162		21.2963		54.6197	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag
2-Butanone	12	U	8.1	J	**24**	
Toluene	6.1	UJ	5.9	U	**200**	

Legend

Compound		
Background		
HRS Significant	**Bold**	

Clyde Dump Site Reassessment
Table 2
Sediment Organic Analytical Results
Pesticide Significant Detections

Sample Number :	E5KQ6		E5KR2		E5KQ8		E5KR1	
Sampling Location :	SE-1		SE-7		SE-3		SE-6	
	Background		Background					
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	8/8/2011		8/8/2011		8/8/2011		8/8/2011	
%Moisture :	22.8162		21.2963		54.6197		32.2226	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDE	1.6	J	1.9	J	**8.1**	**J**	**5.2**	**J**

Legend

Compound		
Background		
HRS Significant	**Bold**	

Clyde Dump Site Reassessment
Table 2
Sediment Inorganic Analytical Results
Metals Significant Detections

Sample Number :	ME5KQ6		ME5KR2		ME5KQ7		ME5KQ8		ME5KQ9		ME5KR1	
Sampling Location :	**SE-1**		**SE-7**		**SE-2**		**SE-3**		**SE-4**		**SE-6**	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
	Background		Background									
Date Sampled :	8/8/2011		8/8/2011		8/8/2011		8/8/2011		8/8/2011		8/8/2011	
%Solids :	79.5		75.2		73		46.9		68		74.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
COBALT	6.3	U	5.4	U	**10.1**		**15.4**		**9.6**		**6.6**	
POTASSIUM	629	U	536	U	596	U	**1110**		**608**		**1210**	

Legend

Analyte		
Background		
HRS Significant	**Bold**	

Clyde Dump Site Reassessment
Table 3
Shallow Soil Organic Analytical Results
BNA Significant Detections

Sample Number :	E5KR6		E5KS6		E5KR8		E5KS5		E5KS0		E5KS2	
Sampling Location :	**SO-3**		**SO-13**		**SO-5**		**SO-12**		**SO-7**		**SO-9**	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Depth:	0-6"		2-6"		0-6"		0-6"		0-6"		0-6"	
	Surface		Surface		Surface		Surface/Dup SO-5		Surface		Surface	
	Background		Background									
Soil Boring:	GP-3		GP-4		GP-5		GP-5		GP-6		GP-7	
Date Sampled :	8/9/2011		8/9/2011		8/10/2011		8/10/2011		8/10/2011		8/10/2011	
%Moisture :	21.8196		13.5534		13.8842		20.3909		8.5806		9.7264	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Phenanthrene	52	J	10	J	88	J	50	J	**700**		**670**	
Anthracene	9.3	J	200	U	21	J	11	J	**190**		**88**	**J**
Fluoranthene	41	J	24	J	**160**	**J**	**130**	**J**	**870**	**J**	**2200**	**J**
Pyrene	26	J	19	J	**100**	**J**	**83**	**J**	**460**	**J**	**1300**	**J**
Benzo(a)anthracene	15	J	14	J	**72**	**J**	**73**	**J**	**310**	**J**	**730**	**J**
Chrysene	9.9	J	14	J	**74**	**J**	**85**	**J**	**230**	**J**	**750**	**J**
Bis(2-ethylhexyl)phthalate	1100	U	1000	U	140	J	**3600**		42	J	90	J
Benzo(b)fluoranthene	14	J	21	J	**120**	**J**	**120**	**J**	**350**		**1200**	
Benzo(k)fluoranthene	220	U	7.1	J	**33**	**J**	**34**	**J**	**98**	**J**	**400**	
Benzo(a)pyrene	8.8	J	14	J	**73**	**J**	**69**	**J**	**240**		**760**	
Indeno(1,2,3-cd)pyrene	220	U	14	J	**65**	**J**	**69**	**J**	**160**	**J**	**600**	
Benzo(g,h,i)perylene	220	U	9.7	J	**37**	**J**	**46**	**J**	**76**	**J**	**400**	

Legend

Compound		
Background		
HRS Significant	Bold	

Clyde Dump Site Reassessment
Table 3
Shallow Soil Organic Analytical Results
Pesticide Significant Detections

Sample Number :	E5KR6		E5KS6		E5KR8		E5KS5		E5KS0	
Sampling Location :	**SO-3**		**SO-13**		**SO-5**		**SO-12**		**SO-7**	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Depth:	0-6"		2-6"		0-6"		0-6"		0-6"	
	Surface		Surface		Surface		Surface/Dup SO-5		Surface	
	Background		Background							
Soil Boring:	GP-3		GP-4		GP-5		GP-5		GP-6	
Date Sampled :	8/9/2011		8/9/2011		8/10/2011		8/10/2011		8/10/2011	
%Moisture :	21.8196		13.5534		13.8842		20.3909		8.5806	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Heptachlor epoxide	2.2	U	0.67	J	**20**	**J**	**39**	**J**	0.8	J
Dieldrin	2.2	U	3.8	U	**110**	**J**	**170**	**J**	**37**	
4,4'-DDE	21		1.7	J	**150**		**210**		3.1	J
Endrin	4.2	U	3.8	U	**26**	**J**	**51**	**J**	1.2	J
Endosulfan II	4.2	U	0.99	J	**24**	**J**	**39**	**J**	3.5	U
4,4'-DDT	12		9.2		**340**	**J**	**410**	**J**	4.3	J
Endrin ketone	4.2	U	3.8	U	2.7	J	**4.7**	**J**	3.5	U
Endrin aldehyde	4.2	U	3.8	U	**44**		**77**	**J**	3.5	U
alpha-Chlordane	2.2	U	2	U	**54**	**J**	**59**	**J**	**8.5**	**J**
gamma-Chlordane	0.48	J	2	U	**53**	**J**	**67**	**J**	**9.5**	

Legend

Compound		
Background		
HRS Significant	Bold	

Clyde Dump Site Reassessment
Table 3
Shallow Soil Organic Analytical Results
PCB Significant Detections

Sample Number :	E5KR6		E5KS6		E5KR8		E5KS5		E5KS0	
Sampling Location :	**SO-3**		**SO-13**		**SO-5**		**SO-12**		**SO-7**	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Depth:	0-6"		2-6"		0-6"		0-6"		0-6"	
	Surface		Surface		Surface		Surface/Dup SO-5		Surface	
	Background		Background							
Soil Boring:	GP-3		GP-4		GP-5		GP-5		GP-6	
Date Sampled :	8/9/2011		8/9/2011		8/10/2011		8/10/2011		8/10/2011	
%Moisture :	21.8196		13.5534		13.8842		20.3909		8.5806	
Aroclor Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1254	42	U	98		**4400**		**5000**		**94**	
Aroclor-1260	42	U	38	U	**350**	**J**	**3500**	**J**	35	U

Legend

Compound		
Background		
HRS Significant	Bold	

Clyde Dump Site Reassessment
Table 3
Surface Soil Inorganic Analytical Results
Metals Significant Detections

Sample Number :	ME5KR6		ME5KS5		ME5KR8		ME5KS5		ME5KS2		ME5KS4	
Sampling Location :	**SO-3**		**SO-13**		**SO-5**		**SO-12**		**SO-9**		**SO-11**	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Depth	0-6"		2-6"		0-6"		0-6"		0-6"		0-6"	
	Surface		Surface		Surface		Surface/Dup SO-5		Surface		Surface	
	Background		Background									
Soil Boring	GP-3		GP-4		GP-5		GP-5		GP-7		GP-8	
Date Sampled :	8/9/2011		8/9/2011		8/9/2011		8/10/2011		8/10/2011		8/10/2011	
%Solids :	79.7		81.9		83.2		83.5		90		87.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
MERCURY	0.041	J	0.037	J	**0.29**		**0.21**		0.025	J	0.11	U
BARIUM	59.2		45.7		**1110**		**1040**		64.9		54.2	
CADMIUM	0.63		0.6	J	**3.4**		**3.3**		1.6		0.46	
CALCIUM	14900		3820		24300		**56300**		**36000**		**50500**	
CHROMIUM	17.1	J-	9.1	J-	**48.2**	**J-**	39.1	J-	16.6	J-	11.8	J-
COBALT	20.6		8.3		**111**		**104**		13		11.6	
COPPER	16.5	J	14.1	J	**113**	**J**	**81.9**	**J**	24.9	J	24.3	J
LEAD	18.5	J	15.7	J	**188**	**J**	**708**	**J**	34.8	J	14.7	J
MAGNESIUM	4290		2440		8030		**12600**		**13600**		9110	
NICKEL	24.5	J	20.3	J	**128**	**J**	**120**	**J**	30.2	J	31.9	J
SILVER	0.92	UJ	1.2	UJ	**3.9**	**J-**	**3.5**	**J-**	0.77	UJ	0.79	UJ
ZINC	76.2		68.6		**558**		**521**		107		75.2	

Legend

Analyte		
Background		
HRS Significant	**Bold**	

Clyde Dump Site Reassessment
Table 4
Deep Soil Organic Analytical Results
VOA Significant Detections

Sample Number :	E5KR4		E5KR5		E5KR7		E5KR9		E5KS1		E5KS3	
Sampling Location :	**SO-1**		**SO-2**		**SO-4**		**SO-6**		**SO-8**		**SO-10**	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Depth:	8-12'		10-14'		11.9-12.5'		12-13'		12.5-13.4'		10.6-11.5'	
	Deep		Deep		Deep		Deep		Deep		Deep	
	Background		Background									
Soil Boring:	GP-3		GP-4		GP-5		GP-6		GP-7		GP-8	
Date Sampled :	8/9/2011		8/9/2011		8/9/2011		8/10/2011		8/10/2011		8/10/2011	
%Moisture :	10.2051		13.0377		17.0852		19.565		21.5178		20.8215	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	4.5	J	8.1	J	**24**		**18**		**42**		**31**	
2-Butanone	9.7	U	9.3	U	**13**		11	J	**22**		**16**	
Trichloroethene	4.9	U	4.6	R	4.9	U	**6.8**		5.5	U	0.31	J
Ethylbenzene	4.9	U	4.6	R	3.3	J	5.4	U	0.19	J	**23**	
o-Xylene	4.9	U	4.6	R	**15**		5.4	U	1.2	J	0.37	J
m,p-Xylene	4.9	U	4.6	R	**14**		0.22	J	0.33	J	1.8	J
Isopropylbenzene	4.9	U	4.6	R	0.7	J	5.4	U	5.5	U	**6.7**	

Legend

Compound		
Background		
HRS Significant	Bold	

Clyde Dump Site Reassessment
Table 4
Deep Soil Organic Analytical Results
BNA Significant Detections

Sample Number :	E5KR4		E5KR5		E5KR7		E5KR9		E5KS1		E5KS3	
Sampling Location :	**SO-1**		**SO-2**		**SO-4**		**SO-6**		**SO-8**		**SO-10**	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Depth:	8-12'		10-14'		11.9-12.5'		12-13'		12.5-13.4'		10.6-11.5'	
	Deep		Deep		Deep		Deep		Deep		Deep	
	Background		Background									
Soil Boring:	GP-3		GP-4		GP-5		GP-6		GP-7		GP-8	
Date Sampled :	8/9/2011		8/9/2011		8/9/2011		8/10/2011		8/10/2011		8/10/2011	
%Moisture :	10.2051		13.0377		17.0852		19.565		21.5178		20.8215	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Naphthalene	190	U	200	U	**420**		9.6	J	**270**		14	J
Acenaphthylene	190	U	200	U	**210**		210	U	17	J	21	J
Dibenzofuran	190	U	200	U	**200**		8.6	J	210	U	15	J
Fluorene	190	U	200	U	**270**		10	J	7.1	J	26	J
Phenanthrene	24	J	13	J	**2600**		160	J	59	J	**310**	
Anthracene	190	U	200	U	**430**		18	J	15	J	29	J
Carbazole	190	U	200	U	**400**		17	J	210	U	26	J
Fluoranthene	190	U	200	UJ	**3500**		**210**		70	J	**370**	**J**
Pyrene	13	J	200	UJ	**2100**	**J**	160	J	61	J	**230**	**J**
Benzo(a)anthracene	15	J	7.1	J	**1200**	**J**	76	J	37	J	98	J
Chrysene	6.3	J	200	UJ	**1300**	**J**	92	J	40	J	130	J
Bis(2-ethylhexyl)phthalate	950	U	1000	U	**330**		16	J	**520**		47	J
Benzo(b)fluoranthene	190	U	200	U	**1900**		150	J	51	J	150	J
Benzo(k)fluoranthene	190	U	200	U	**610**		42	J	19	J	52	J
Benzo(a)pyrene	190	U	200	U	**1200**		88	J	39	J	100	J
Indeno(1,2,3-cd)pyrene	190	U	200	U	**770**		92	J	39	J	96	J
Benzo(g,h,i)perylene	7.6	J	200	U	**510**		48	J	18	J	51	J

Legend

Compound		
Background		
HRS Significant	Bold	

Clyde Dump Site Reassessment
Table 4
Deep Soil Organic Analytical Results
Pesticide Significant Detections

Sample Number :	E5KR4		E5KR5		E5KR7		E5KS1	
Sampling Location :	**SO-1**		**SO-2**		**SO-4**		**SO-8**	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/kg		ug/kg		ug/kg		ug/kg	
Depth:	8-12'		10-14'		11.9-12.5'		12.5-13.4'	
	Deep		Deep		Deep		Deep	
	Background		Background					
Soil Boring:	GP-3		GP-4		GP-5		GP-7	
Date Sampled :	8/9/2011		8/9/2011		8/9/2011		8/10/2011	
%Moisture :	10.2051		13.0377		17.0852		21.5178	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dieldrin	3.7	U	3.8	U	**9.8**	**J**	**6.6**	**J**
4,4'-DDE	3.7	U	3.8	U	**100**		**29**	
Endrin	3.7	U	3.8	U	**12**	**J**	5.8	J
Endosulfan II	3.7	U	3.8	U	**9.6**	**J**	**4.7**	**J**
4,4'-DDD	3.7	U	3.8	U	**52**		**10**	**J**
4,4'-DDT	3.7	U	3.8	U	**140**	**J**	**59**	**J**
alpha-Chlordane	1.9	U	2.0	U	1.9	U	**2.3**	**J**

Legend

Compound		
Background		
HRS Significant	Bold	

Clyde Dump Site Reassessment
Table 4
Deep Soil Organic Analytical Results
PCB Significant Detections

Sample Number :	E5KR4		E5KR5		E5KR7		E5KS1	
Sampling Location :	**SO-1**		**SO-2**		**SO-4**		**SO-8**	
Matrix :	Soil		Soil		Soil		Soil	
Units :	ug/kg		ug/kg		ug/kg		ug/kg	
Depth:	8-12'		10-14'		11.9-12.5'		12.5-13.4'	
	Deep		Deep		Deep		Deep	
	Background		Background					
Soil Boring:	GP-3		GP-4		GP-5		GP-7	
Date Sampled :	8/9/2011		8/9/2011		8/9/2011		8/10/2011	
%Moisture :	10.2051		13.0377		17.0852		21.5178	
Aroclor Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1254	37	U	38	U	**3000**		**1100**	

Legend

Compound		
Background		
HRS Significant	Bold	

Clyde Dump Site Reassessment
Table 4
Deep Soil Inorganic Analytical Results
Metals Significant Detections

Sample Number :	ME5KR4		ME5KR5		ME5KR7		ME5KR9		ME5KS1		ME5KS3	
Sampling Location :	**SO-1**		**SO-2**		**SO-4**		**SO-6**		**SO-8**		**SO-10**	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Depth	8-12'		10-14'		11.9-12.5'		12-13'		12.5-13.4'		10.6-11.5'	
	Deep		Deep		Deep		Deep		Deep		Deep	
	Background		Background									
Soil Boring	GP-3		GP-4		GP-5		GP-6		GP-7		GP-8	
Date Sampled :	8/9/2011		8/9/2011		8/9/2011		8/10/2011		8/10/2011		8/10/2011	
%Solids :	88.4		84.8		80.2		78.5		77.6		79.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
MERCURY	0.016	J	0.019	J	**0.27**		**0.26**		**0.28**		0.042	J
ANTIMONY	0.9	J	0.8	J	**9.9**	**J**	**10.6**	**J**	1.5	J	2	J
BARIUM	97.5		107		**2300**		**308**		47.1		83.1	
CADMIUM	0.58		0.54		**8.1**		**5.6**		0.81		1.3	
CHROMIUM	14.3	J-	17.9	J-	**184**	**J-**	43	J-	11	J-	11.1	J-
COBALT	16.9		13.6		**204**		19.7		7.3		7.4	
COPPER	23.1	J	22.6	J	**429**	**J**	**86.3**	**J**	32.2	J	25.2	J
LEAD	12.9	J	11	J	**646**	**J**	**402**	**J**	**61.2**	**J**	**64.2**	**J**
NICKEL	39	J	40.9	J	**233**	**J**	56.2	J	21.4	J	20.2	J
SILVER	1	J-	0.81	UJ	**7.3**	**J-**	1.7	J-	0.94	UJ	0.99	J-
SODIUM	398	U	404	U	**4400**		**1440**		**1390**		717	
ZINC	77.9		70.4		**1670**		**1210**		163		153	

Legend

Analyte		
Background		
HRS Significant	**Bold**	

Appendix C

Photographic Log

and 27-13 Authorization and Approval Request for 2005

Photo No: 1
Northernmost riprap location at “S” curve in Raccoon Creek looking upstream.

Photo No: 2
Ground water seep in riprap with white precipitate at “S” curve in Raccoon Creek.

Photo 3:
Leachate seep along Raccoon Creek just upstream of "S" curve.

Photo 4:
Leachate seep along Raccoon Creek just upstream of "S" curve.

Photo 5:
Leachate seep along Raccoon Creek just upstream of "S" curve.

Photo 6:
Leachate seep along Raccoon Creek just upstream of "S" curve.

Photo 7:
Leachate seep along Raccoon Creek just upstream of "S" curve.

Photo 8:
Raccoon Creek looking downstream (north) at segment containing leachate photos 2 thru 7, just south of S curve.

Photo 9:
Raccoon Creek looking upstream (south) from same location as photo 8.

Photo 10:
Leachate seep area halfway up bank of Raccoon Creek at southern edge of middle riprap area.

Photo 12:
Leachate seep along Raccoon Creek at middle rip-rap area.

Photo 13:
Southernmost riprap area along Raccoon Creek where leachate photos 14 and 15 were taken.

Photo 14:
Leachate seep at toe-of-slope along Raccoon Creek, northern edge of riprap area.

Photo 15:
Leachate seep area halfway up bank of Raccoon Creek at northern edge of riprap area.

Photo 16:
Boring operations at location GP-2 near southeast corner of fill.

Photo 17:
Hard fill/spoils disposal at northern limits of fill.

Photo 18:
View of the top of dump looking south toward WWTP.

Photo 19:
View of the top of dump looking north toward hard fill/spoils area.

Photo 20:
View of the top of dump looking east toward farm field and pine grove.

Photo 21:
View of the top of dump looking west toward Raccoon Creek.

Photo 22:
View looking north from the southeast corner of fill showing reworked eastern slope and perimeter drainage ditch.

Photo 23:
View looking south from the northeast corner of fill showing reworked eastern slope, perimeter drainage ditch, and leachate manhole.

Photo 24:
View looking south at creek background sample location SE-1/SW-1.

Photo 25:
View looking south at background creek sample location SE-7/SW-7.

Photo 26:
View looking east at creek sample location SE-6/SW-6 near leachate outbreak.

Photo 27:
View looking west at creek sample location SE-8/SW-8.

Photo 28:
View looking northwest at creek sample location SE-3/SW-3.

Photo 29:
View looking southeast at creek sample location SE-2/SW-2.

Photo 30:
View looking southeast at creek sample location SE-4&5/SW-4&5.

Photo 31:
View looking east at leachate manhole and sample location L-9.

Photo 32:
View looking south at boring location GP-7, site of soil samples SO-8 & SO-9, and leachate sample L-10.

Photo 33:
View looking south at boring location GP-8, site of soil samples SO-10 & SO-11 .

Photo 34:
View looking east at boring location GP-6, site of soil samples SO-6 & SO-7.

Photo 35:
View looking east at boring location GP-5, site of soil sample SO-4, and sample SO-5 and it's duplicate sample SO-12.

Photo 36:
View looking southwest at boring location GP-3, site of background soil samples SO-1 & SO-3.

Photo 37:
View looking west at boring location GP-4, site of background soil samples SO-2 & SO-13.

Photo 38:
View looking northeast at boring location GP-1.

Photo 39:
View looking southeast at boring location GP-2.

OhioEPA
State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.state.oh.us

Bob Taft, Governor
Bruce Johnson, Lieutenant Governor
Joseph P. Koncelik, Director

Re: Clyde City Dump
3745-27-13 Authorization
Sandusky County

March 10, 2005

Mr. Dan Weaver
Manager
City of Clyde
222 North Main Street
Clyde, OH 43410

Dear Mr. Weaver:

Ohio EPA has reviewed your correspondence dated February 18, 2005, regarding site improvements to the closed Clyde City Dump, and has the following recommendations:

1. The Gas Company should be notified prior to conducting any work in the vicinity of the high pressure gas line located near the south end of the site;

2. While removing the field tiles near the northwest corner of the site, the eroded bank of Racoon Creek in this area should be graded back to an appropriate slope. Vegetation and rip-rap (if necessary) should be used to prevent further erosion upon completion of the regrading. Any other areas of bank erosion along the western perimeter of the site along Racoon Creek should be addressed in a similar manner. Also, debris that has accumulated in the creek bed should be removed and properly handled.

3. The facility cap must be replaced as required by paragraph (H) (9) of the rule. The cap specifications were previously transmitted to you and GGJ Inc. in e-mail correspondence dated November 05, 2004. Final slopes should be no less than one (1) percent and no greater than twenty-five (25) percent. The soil piles noted in the plan drawing near the center of the site should be graded to achieve appropriate final contours and slope .

4. The City may wish to consider installing a drainage tile in the existing east perimeter ditch prior to backfilling and reconstructing the eastern slope of the dump. This tile would drain to a sump where any intercepted leachate could be extracted. This low cost system could be useful to help control leachate should additional outbreaks occur along this slope in the future.

5. Upon completion of activities, a certification report as required by paragraph (H) (10) of the rule should be submitted to this office. In addition, the site should be mowed on a scheduled basis to prevent the overgrowth of trees and brush. Routine inspections of the site should be made so that problems can be identified and corrected in a timely fashion. A record of inspections and maintenance activities should be kept.

The proposed activities may occur in accordance with paragraph (H) (2) of the rule. Please notify this office at least 7 days prior to commencing major portions of the improvements so that routine inspections can be conducted if necessary.

If you have any questions concerning the above, please contact me at (419) 373-3040.

Sincerely,

Steven C. Snyder

Steven C. Snyder
Division of Emergency and Remedial Response

/csl

pc: William Boyle, GGJ Inc.
Sandusky County Health Department
File, Clyde City Dump

February 18, 2005

RECEIVED
FEB 25 2005
OHIO E.P.A.
N.W.D.O.

Mr. Steve Snyder
Ohio Environmental Protection Agency
Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402

RE: City of Clyde Closed Landfill

Dear Mr. Snyder:

(11, 12) On behalf of the City of Clyde, we respectfully request authorization to perform excavation, filling, and grading at the Clyde Dump located at the Site of the Clyde WWTP (749 West McPherson Highway, Clyde Ohio 43410). This request is in conformance with the OAC 3745-27-13 (including all applicable portions of Part (H). The work will be performed in compliance with the requirements of Chapter 3734 of the Ohio Revised Code and as described herein.

Project Information *OAC3745-27-13 (F)(1-5)*

(1)	Name of the Facility:	Clyde Dump
(2)	Address of the Site:	749 West McPherson, Clyde Ohio 43410
(3)	County and Township:	Sandusky, Green Creek
(4)	Contact Name:	William Boyle, GGJ Inc.
	Phone Number:	(440) 953-1567

The Clyde Dump meets the description in OAC Chapter 3745-27-13 D(2)(a) that states, "An unlicensed or unpermitted solid waste landfill that ceased acceptance of waste prior to July 29, 1976.". Therefore, all work must be performed as described in OAC Chapter 3745-27-13 (F).

(5) The site covers approximately 11 acres to the North of the Clyde WWTP.

Proposed Work *OAC3745-27-13 (F)(6-9))*

(6) The Clyde Dump ceased operations in 1969 due to the implementation of the first solid waste law in the State of Ohio. It is presumed that the dump when in operation accepted for disposal municipal, commercial, and Industrial waste (From eye-witness accounts it was learned that much of the refuse that was accepted was burned). It is estimated that there is approximately 29,300 Cubic

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◆ www.clydeohio.org ◆ email dweaver@clydeohio.org ◆

Yards of debris that is contained within this area and an additional 29,300 Cubic Yards of soil. This information was not obtained from records of receipts but by interpolation of existing contours and fill soil contours.

The site covers approximately 11 acres to the North of the Clyde WWTP. It is shown in the Site Location Map that is included with this package (this location is labeled as Site #1). The Site Location Map also shows a second site located to the south of the WWTP (Site #2) this site had previously been suspected of containing debris from the Clyde Dump. However, on January 21, 2005 exploratory borings (5) were performed at Site #2 and disproved the notion that this area accepted and contains refuse. Results of the borings have been sent to the Ohio EPA under correspondence dated, January 31, 2005, and are included in the Appendices of this report.

(7) The following is a list of the work that is being proposed at the Clyde Dump as well as an estimated schedule of when each portion is to be completed;

- The City will use their own personnel and equipment to eliminate both of the locations that are leaching into Raccoon Creek near the Southwestern area of the Dump Site. The work will include excavation of these areas and fill the areas with clay to prevent future leaching of these locations. If, during the course of this work any debris is encountered, the debris will be relocated towards the north side of the site where it can be properly buried and covered. The City will then grade this disturbed area and seed and mulch it to provide vegetative growth prior to the final grading of the site. This work is scheduled for completion during the Spring of 2005.
- The City will use their own personnel and equipment for the elimination of the two drainage tiles located in the Northwest corner of the landfill. The elimination of the tiles will include the removal of up to 20 feet of the buried tile. The City will excavate the existing tile and fill this area with clay. If, during the course of this work any debris is encountered, the debris will be relocated towards the north side of the site where it can be properly buried and covered. The City will then seed and mulch the disturbed areas to provide vegetative growth prior to the final grading of the site. This work is also scheduled to be completed in the Spring of 2005.
- The City will use their own personnel and equipment to remove the peninsula area located in the Southeast corner of the dump. This is the old Police Firing Range and was one of the areas that a boring was performed (location #1, See Appendix for results). The City will relocate this material towards the north side of the site where it can be properly buried and covered. The City will then seed and mulch the disturbed areas to provide vegetative growth prior to the final

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grading of the site. The intent of this work is to remove all portions of the Dump located on or above the Columbiana Gas Transmission line. In doing so, the City will eliminate the potential excavation of debris should the transmission line ever need repairs. It should be noted that all debris placed in this area was done so on top of the previously existing grade. Therefore, this work will reestablish the previously existing grade above the transmission line. This work is also scheduled to be completed in the Spring of 2005.

- The final improvement that is being proposed is to relocate a section of the existing ditch that runs along the eastern and northern side of the site. This ditch receives the drainage from the site and discharges all flow into Raccoon Creek. The City plans on filling in the portion of the existing ditch that runs alongside the eastern edge of the dump site and relocate this segment of the ditch approximately 20 feet further East. This proposed work will also include increasing the cover over portions of the landfill and grading the entire area to provide positive overland flow to the ditch to the north and to the east (See attached the proposed Grading Plan). Seeding and mulching of the entire site will also be performed at this time. The City does not currently own the land where the proposed new ditch is to be located. Therefore, this work cannot be performed until the proper arrangements are made. It is anticipated that these arrangements will include the City purchasing this property (the City is beginning the process of contacting the existing owner to pursue title of the land). The proposed schedule for this work is dependent on when the City acquires rights to this land. It is estimated that the City will be able to begin the improvements during the Spring of 2006. The City will not attempt to do this work with their own forces but will hire a Contractor.

(8) The above-mentioned work will be performed in compliance with Ohio EPA regulations and direction.

(9) The following is a list of control measures to minimize pollution during construction;

- **Air Emissions**- The potential concern with air emissions during the construction of the proposed work is with dust caused during the grading of the site. The control of the dust will be done by wetting down the surface of the site to prevent the dust from traveling off the site.
- **Control leachate**- The areas where leaching is a concern are the locations along the west boundary of the dump near Raccoon Creek. The control of the leachate is the reason why work is being performed in these areas. During construction, the removal of the current fill in those areas will be done in such a way to contain

the leachate within one area (utilizing existing earth in place as containment walls) that will allow for it to be pumped and hauled to the Clyde WWTP

- **Surface Water Runoff and Run-on-** The dump site was constructed on top of existing grade. Therefore, the site sits higher than all land adjacent to it and is not impacted by surface water run-on. Surface water runoff will be a concern during the proposed work and will be addressed by the use of silt fencing around the perimeter of the Dump that will protect Raccoon Creek and the ditches surrounding the site. In addition, all areas that will be disturbed during construction will be immediately seeded and mulched to prevent long term surface water problems.
- **Protection of Ground Water-** It is not anticipated that the proposed work will impact ground water in the area. As stated previously, the dump was created on top of existing grade. Therefore, all work will be performed above the horizon in which the migration of groundwater occurs.

(10) The City owns all the land that the proposed work will be conducted with the exception of the location of the new ditch. As stated above the City plans on purchasing this land prior to the work being performed. When the land is purchased or the necessary agreements are made with the current owner the City will supply the Ohio EPA the proof of acknowledgement from the owner (either the City or the current owner). This letter shall be considered the acknowledgment for all land currently owned by the City.

We would appreciate your approval of this request. If there is any additional information necessary for approval of this request, please feel free to contact us.

(13) I hereby affirm that all assertions made within this application are to the best of my knowledge true.

City Of Clyde.

Sworn and subscribed to me this 22nd day of February, 2005

(14) Dan Weaver, City Manager

Sharon S. Smith

Cc. Mr. Fred Craig, Superintendent
Mr. William B Boyle Jr. P.E.

Sharon S. Smith
Notary Public, State of Ohio
My Commission Expires May 1, 2006

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◆ www.clydeohio.org ◆ email dweaver@clydeohio.org ◆

APPENDIX D

Site Specific Geology/Hydrogeology

Report & Boring Logs

Interoffice Memo

Ohio Environmental Protection Agency

To: Steve Snyder, Site Coordinator, DERR-NWDO

From: Pete Sokoloski, through John Weaver, Geologist 4, DDAGW-NWDO

Date: November 28, 2011

Property: Clyde Dump Depot, located behind 749 West McPherson Highway, Clyde, OH 43410, Sandusky County.

Subject: August 2011 Fieldwork Findings **(5-10964)**

INTRODUCTION

The Division of Environmental Response and Revitalization (DERR) requested that the Division of Drinking and Ground Waters (DDAGW) describe and otherwise characterize soil cores extracted from the closed Clyde Dump (site) during fieldwork conducted on August 8 and 9, 2011. Background information including site history and regional geologic and hydrogeologic information is contained in the Ohio EPA-DERR Site Team Evaluation Prioritization (dated September 30, 1998) and the Site Characterization Work Plan (undated). The methodology and results of the August 2011 fieldwork are discussed below.

METHODOLOGY

Ohio EPA proposed to install up to four (4) ground water monitoring wells outside the limits of waste on the south, east, and north sides of the dump site. An additional four (4) boring~~s~~ locations were planned to characterize the stratigraphy and hydrogeology within the limits of waste. A GeoProbe® 5410 rig mounted on a Ford 450 truck was used to advance dual tubes with the intention of collecting continuous 4 foot long soil cores. Soil cores were described using the Ohio EPA-DERR-SIFU Field Guide for Soil Description (July 2009) which follows the Unified Soil Classification System (USCS). The field guide provided a useful reference for the uniform description of consistency, moisture content, plasticity, color, percent grain abundance, and soil type. Any loss of core was assumed to have occurred from the bottom of the run.

OBSERVATIONS

The borings ranged from 12 to 25 feet (ft) in depth with half the number of borings (GP-1, GP-3, GP-4, GP-5) ending at refusal. Figure 1 shows the location of the borings. Attempts were made to core toward the southwest end of the site, approximately 40 yards east of the creek. This attempt ended in refusal at 1.95 ft below ground surface (bgs). Refusal was met again at 4 ft bgs after moving the drill rig approximately 5 ft west of this point and again at 4 ft bgs after moving the rig an additional 20 yards to the north.

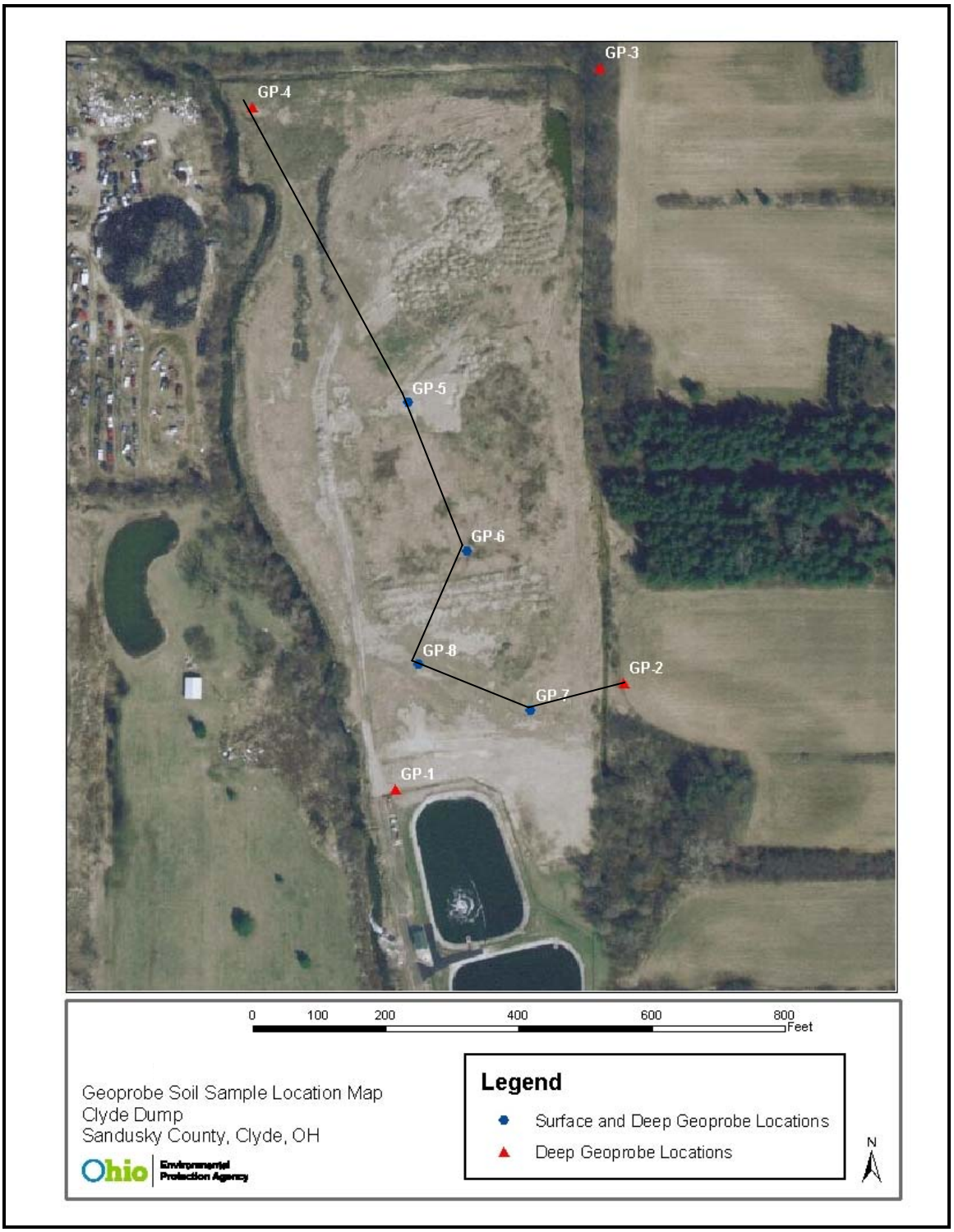

Figure 1: The soil borings are labeled GP-1 through GP-8 in this image of the Clyde Dump. Borings GP-1 through GP-4 are outside the limits of waste placement and borings GP-5 through GP-8 are inside the limits of waste placement. The black line in Figure 1 connecting GP-2 to GP-4 is the traverse of the geologic cross section shown in Figure 2.

The unconsolidated materials examined from the soil borings can be divided into 4 hydrogeologic units, discussed in ascending stratigraphic order as Units 1 through 4. **Unit 1** is a hard to very hard, grey lean clay (CL) or silt (ML) referred to in geologic literature as *diamicton*, or in archaic terms 'hardpan.' The top of this unit is shown in the geologic cross section in Figure 2 as a dashed-line and occurs beneath the site at depths of 8 to 19 ft bgs or approximate elevations of 641 to 634 ft from mean sea level (MSL). **Unit 2** is mainly brown lean clay or silt (measuring 8 to 10 ft thick) and typically located outside the limits of waste placement. **Unit 3** is grey silt or sand (measuring 0 to >11 ft thick). Unit 3 is a looser material than the other units, typically saturated, and occurs exclusively within the limits of waste placement based on present information. **Unit 4** is the waste material (measuring 2 to >10 ft thick) in the dump consisting of gravel, brick, paper, wood, glass, paint, lime/crushed limestone, plastic, wire/metal. Table 1 contains basic information about the completed borings and Table 2 describes the basic stratigraphy encountered. Detailed soil boring descriptions are included in Appendix A.

Staff that walked the parameter of the site located six leachate/ground water seeps near the creek (Figure 3). The maximum and minimum elevation of the seeps was 649.36 and 641.94 ft AMSL.

DISCUSSION

The geology/hydrogeology differs significantly outside the limits of waste at borings GP-1, GP-2, GP-3, and GP-4 compared to the sample locations inside the limits of waste placement at borings GP-5, GP-6, and GP-8 (Table 2).

Saturation outside the limits of waste placement is limited to intervals a foot thick, located within 6 ft of the surface. No saturated zones occur up to depths of 12 ft at boring GP-3. The grey silt of Unit 3 occurs beneath waste and in place of the brown lean clay to silt material of Unit 2. Unit 3 includes saturated, black-stained sand immediately below waste at GP-6 and GP-8, measuring 1 and 3 ft thick, respectively. Unit 3 is seen in borings GP-6, GP-7 and GP-8 with saturated thicknesses below waste of 8, 3 and 3 ft, respectively. Unit 3 may be present where waste is thickest at GP-5, however this boring did not extend below the interval containing waste (8 to 18 ft bgs).

The seeps on the west side of the site are at the same elevation as saturated zones within and below waste just east of the creek according to the geologic cross section in Figure 2. The presence of leachate/ground water seeps that are predominately on the west side of the site, and little to no saturation in the borings to the north, south and east, suggests that shallow ground water mainly flows towards the west and discharges as surface water to Raccoon Creek from perched ground water zones under the site.

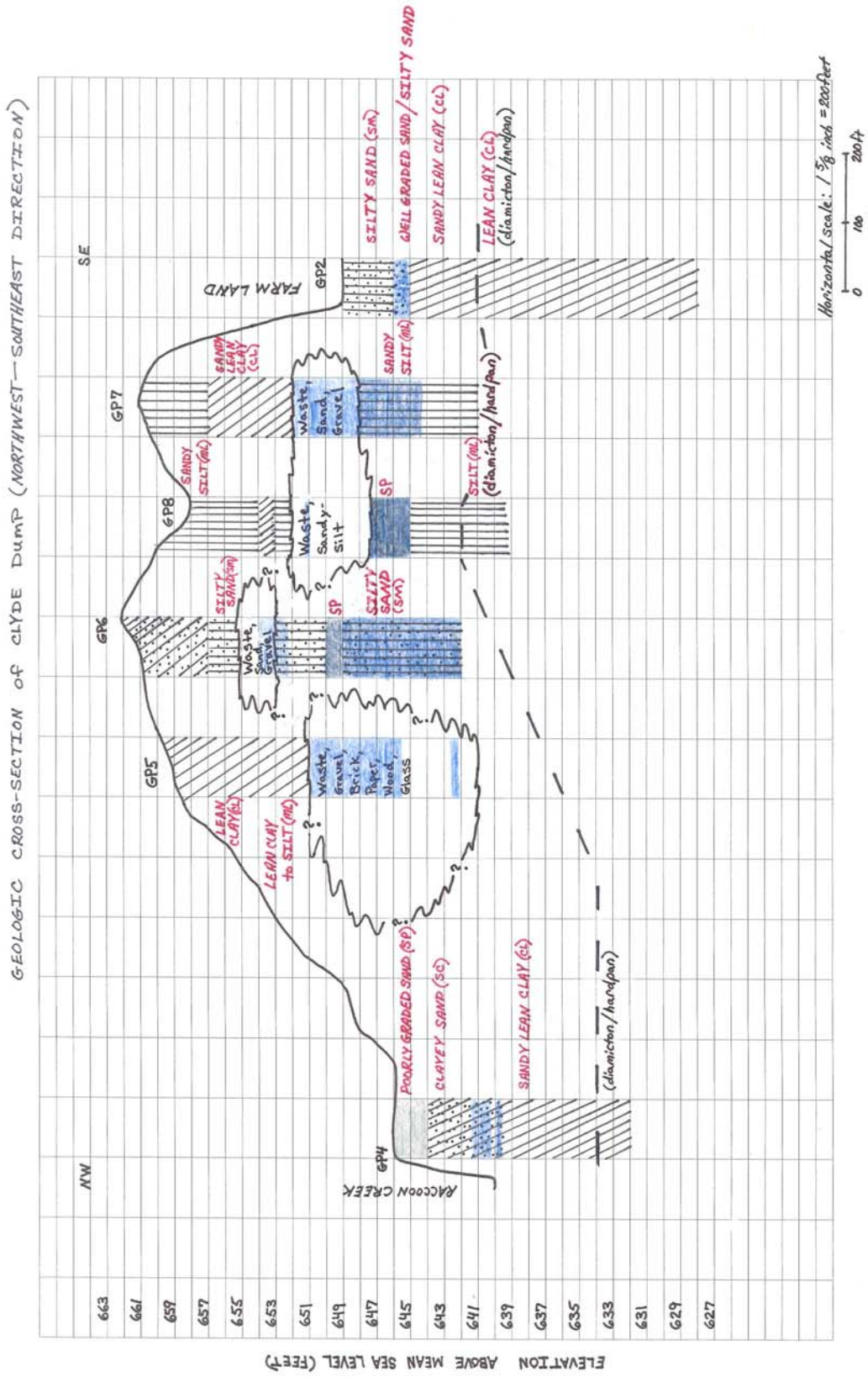

Figure 2: Saturated intervals are colored blue in this geologic cross section (see Figure 1). The dashed line marks the top of stratigraphic Unit 1.

Table 1: Soil boring information. The saturated interval shown includes saturated waste.

Location/Boring ID		Surface Elevation (ft MSL)	Total Depth (ft)	Bottom Elevation (ft MSL)	Saturated Interval (ft MSL)	Approximate Saturated Thickness (ft)
outside limits of waste placement	GP-1	653.20	25.3	628	652 to 651	1
	GP-2	648.64	20	629	645 to 644	1
	GP-3	646.97	12	635	none	none
	GP-4	645.87	14	632	641 to 640	1
inside limits of waste placement	GP-5	659.01	18	641	651 to 645 642.8 to 642.6	6 (in waste) 0.2 (in waste)
	GP-6	662.17	20	642	665 to 654 650 to 642	1 (in waste) 8
	GP-7	661.46	20	641	653 to 645	8 (upper 4 ft in waste)
	GP-8	658.04	18.5	640	648 to 645	3

Table 2: Boring hole summary describing the basic stratigraphy encountered in different parts of the site.

Boring Location/ID		Unit 4: Waste			Unit 3: Grey Silt (ML)				Unit 2: Brown Lean Clay (CL) or Silt (ML)			Unit 1: Grey Lean Clay (CL) or Silt (ML) (Diamicton)	
		thick-ness (ft)	depth (ft bgs)	approx elev (ft MSL)	thick-ness (ft)	depth (ft bgs)	approx elev (ft MSL)	elev. of saturated interval below waste (ft MSL	thick-ness (ft)	bottom of unit		Top of unit	
										depth (ft bgs)	approx elev (ft MSL)	depth (ft bgs)	approx elev (ft MSL)
outside limits of waste placement	GP-1	NP (surface fill 0 to 8 ft bgs)			NP				11	19	634	19	634
	GP-2	NP			NP				8	8	641	8	641
	GP-3	NP (surface fill 0 to 2 ft bgs)			NP				9	11	636	11	636
	GP-4	NP (surface fill 0 to 2 ft bgs)			NP				10	12	634	12	634
inside limits of waste placement	GP-5	≥10	8 to ≥18	651 to 641	NP (interval logged as waste to E.O.B.)				NP			NP	
	GP-6	2	7 to 9	655 to 653	≥11	9 to ≥20	650 to 642	650 to 642	NP			NP	
	GP-7	6	7 to 13	654 to 648	≥7	13 to ≥20	648 to 645	648 to 645	NP			NP	
	GP-8	5	5 to 10	653 to 648	6	10 to 16	648 to 645	648 to 645	NP			16	642

Abbreviations and symbols used in Table 2: (ft) feet; (MSL) mean sea level; (≥) at least , i.e., greater than or equal to; (NP) not present; (E.O.B.) end of boring; (approx.) approximate; (elev) elevation; (ML) silt: defined under the Unified Soil Classification System (USCS) as fine-grained soil with 50 percent or more passing through a #200 sieve (0.075 mm mesh), liquid limit of less than 50 percent, and nonplastic to low plasticity; (CL) lean clay: defined under the USCS similar to silt, but exhibiting medium (to low) plasticity. (Diamicton) term commonly used in preference to 'tillite' describing an unlithified, conglomeratic, siliciclastic rock that is unsorted with sand and/or coarser particles dispersed through a mud matrix.

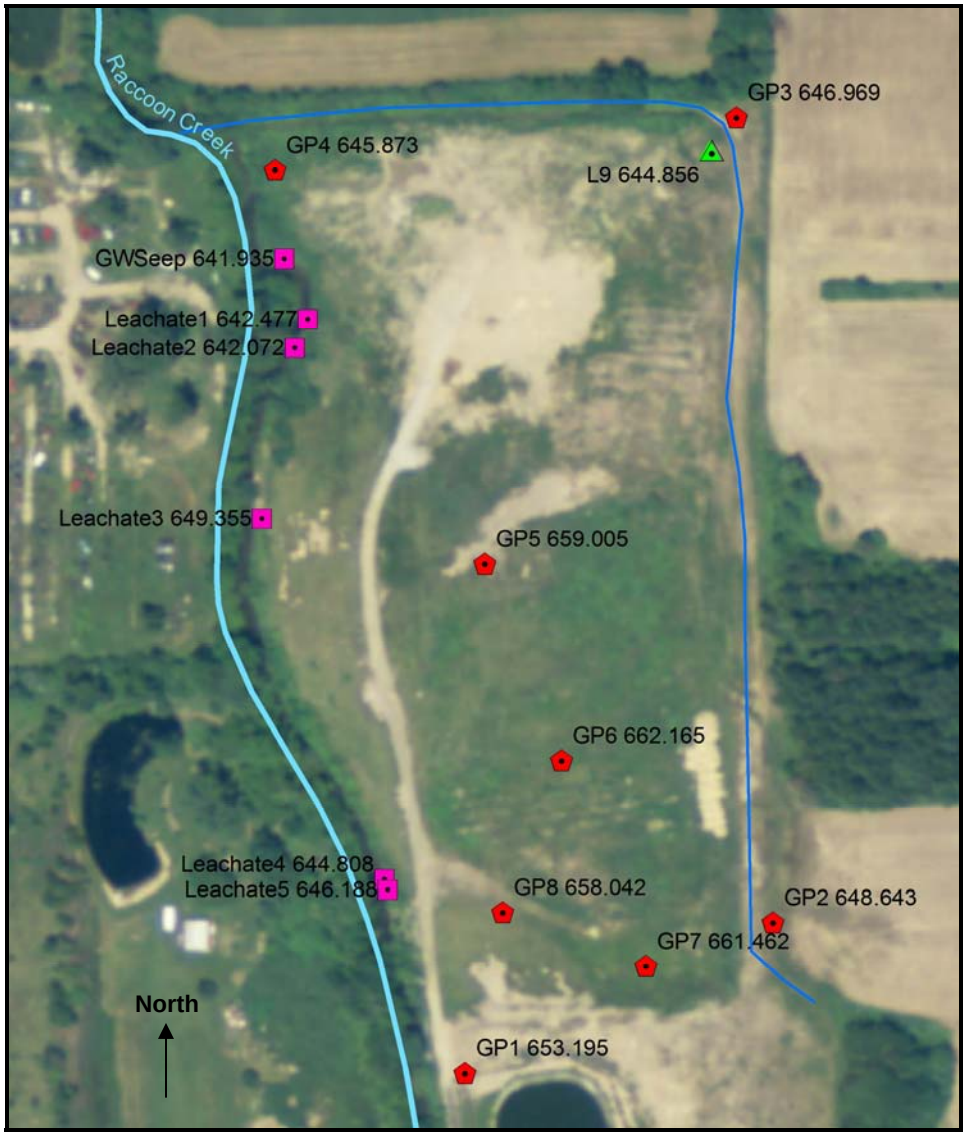

Figure 3: Site map showing the surface elevations of the boring locations (GP) and leachate/ground water seeps. Raccoon Creek ranges in elevation from 641.5 in the southern upstream portion to 638.1 in the northern downstream portion onsite. Elevations are in feet above mean sea level (ft AMSL).

CONCLUSION

Borings outside of waste did not encounter any significant continuous saturated zones beneath the site which could be monitored. Therefore, no ground water monitoring wells were installed at the site. All boreholes were backfilled with cuttings and granular bentonite. Additional work would be needed to determine the lateral extent of the perched ground water zones found beneath the site.

ec: Steve Snyder, DERR-NWDO
Lindsay Taliaferro III, DDAGW-CO

Work ID: 5000010964

APPENDIX A:

Soil Boring Logs

Ohio EPA
4675 Homer Ohio Lane
Groveport, OH 43125
Telephone: 614-836-8760, Fax: 614-836-8795
ed.link@epa.state.oh.us

Clyde Dump -- Site Re-Assessment
749 West McPherson Hwy (St. Rt. 20)
Clyde, OH 43410
Sandusky County, NWDO

Project No./Type: USEPA ID: OHD980905251/

DERR-SIFU
Soil Boring Log
GP-1 (SB-1)

Page 1 of 2

LAT/LONG and/or **LOCATION DESCRIPTION:** SouthWest corner of landfill

GROUND ELEVATION:
TOC ELEVATION:
DRILLING SERVICES: Ohio EPA DERR-SIFU
START DATE: 8/9/11
COMPLETION DATE: 8/9/11
DRILLER: Karl Reinbold & Gavin Armstrong, SIFU
DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Dual Tube cores down to 28' D. No MW was installed.
LOGGED BY: William "Pete" Sokoloski, NWDO--DDAGW
DIAMETER (in): 2.25 O.D.
TOTAL DEPTH (ft): 25.3
REFUSAL (ft): 25.3
NOTES: Overcast sky, ~70 degrees F.; 08:30 hours begin

GROUND WATER LEVELS

Date	Time	Depth (ft)	Notes

DEPTH (ft)	CORING Core Type	CORING Core Interval/ Recovery (ft)	SAMPLING Sample Interval (ft)	SAMPLING Sample Purpose/ID	SAMPLING PID (ppmv)	REMARKS	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION
2	DT	0.0-4.0 2.5	0.0 - 4.0	NS = Not Sampled	0		0.3' 0.7' 1.1' 2.1'	SW	FILL: Fill from at least 0--8', light brown SILTY SAND (SM); FILL: grey, well-graded GRAVEL (GW); FILL: blue grey SILT w/ trace GRAVEL (ML); FILL: dark grey SAND w/ GRAVEL (SW), wet @ 1.1--2.1'
4								SC	FILL: dark, yellow brown CLAYEY SAND to LEAN CLAY; dry to moist, 7.9--8.0' dry; wood fragment @ ~7.8--7.9'
6	DT	4.0-8.0 1.5	4.0 - 8.0	NS	0				
8							8'	CL	reddish brown LEAN CLAY, dry; darker, reddish mottling from 9-10'
10	DT	8.0-12.0 4.0	8.0 - 12.0	NS	0		11'	ML	brown SILT, moist; becoming dark brown w/ at least 15% coarse SAND and trace GRAVEL, dry @ 11.3'
12							12'	ML	greyish brown SILT w/ ~20% SAND, dry to End of Boring (E.O.B.)
14	DT	12.0-16.0 4.0	12.0 - 16.0	NS	--		15'	ML	grey brown to grey SILT, hard, trace coarse SAND, dry
16							16'	ML	(same as above) but with low plasticity, grey, trace small GRAVEL, dry
18	DT	16.0-20.0 4.0	16.0 - 20.0	NS	--		18'	ML	grey SILT, non-plastic, no gravel, dry
20							19'	ML	(same as above) but firm, low-plasticity, dry; limestone chunk from 22.65--22.80'; 09:38 hours; sunny, ~74 degrees F.

(Continued)

REMARKS:
1. GENERAL NOTE: For these 8 sampling and/or screening locations (intended for monitoring wells), the gINT boring logs are a compilation of info from log sheets from field geologist, Geoprobe operator's log book, and chain-of-custodies.
2. GENERAL NOTE: All 8 borings completed by Geoprobe Direct-Push Model 5410 mounted on Ford F-450 flatbed.
3. Per hand-written, soil boring log sheet, "Hole backfilled with cuttings and granular bentonite." "Site Coordinator: Steve Snyder (DERR--NWDO)"
4. Per hand-written, soil boring log sheet, "Begin 0830 hrs, when obstruction hit at 6". Replace drive shoe & move over 6". Intend to collect continuous 4' soil cores. Assume any loss is from bottom of run. No monitoring well set. Took picture of core."

OHIO EPA GEOPROBE LOG - OHIO EPA GEOPROBE LOG.GDT - 9/15/11 10:43 - G:\CLYDE--GINT\CLYDE.GPJ

Ohio EPA
4675 Homer Ohio Lane
Groveport, OH 43125
Telephone: 614-836-8760, Fax: 614-836-8795
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Clyde Dump -- Site Re-Assessment
749 West McPherson Hwy (St. Rt. 20)
Clyde, OH 43410
Sandusky County, NWDO

Project No./Type: USEPA ID: OHD980905251/

DERR-SIFU
Soil Boring Log
GP-1 (SB-1)

Page 2 of 2

DEPTH (ft)	CORING: Core Type	CORING: Core Interval/ Recovery (ft)	SAMPLING: Sample Interval (ft)	SAMPLING: Sample Purpose/ID	SAMPLING: PID (ppmv)	REMARKS	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION
22	DT	20.0-24.0 2.8	20.0 - 24.0	NS	--		22.8'	ML	(same as above) but firm, low-plasticity, dry; limestone chunk from 22.65--22.80'; 09:38 hours; sunny, ~74 degrees F. *(continued)*
24			24.0 - 25.3	NS	--		25.3'	CL/ML	grey SILT to LEAN CLAY with trace of coarse SAND, low to medium plasticity, dry
	DT	24.0-28.0 1.3				5 6 7			End of Soil Boring with Refusal at 25.3' b.g.s.

REMARKS:
5. Per Geoprobe log book, "SB/MW-1 (SW corner). Soil cores to 28' b.g.s. No well -- very hard, dry clay." [No monitoring well set.]
6. GENERAL NOTE: During the investigation, PID readings taken with MultiRAE, MiniRAE and/or MSA Sirius detectors (relative units of ppmv).
7. ABREVIATIONS USED: b.g.s. = Subsurface measurements in feet "below ground surface"; a.m.s.l. = feet above mean sea level; E.O.B. = End of Boring; GP = Geoprobe; DT = Geoprobe Dual Tube soil cores; SB = soil boring.

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Sandusky County, NWDO

Project No./Type: USEPA ID: OHD980905251/

DERR-SIFU
Soil Boring Log
GP-2 (SB-2)

Page 1 of 1

LAT/LONG and/or **LOCATION DESCRIPTION:** SouthEast corner of landfill

GROUND ELEVATION:	**TOC ELEVATION:**	**DRILLING SERVICES:** Ohio EPA DERR-SIFU
START DATE: 8/9/11	**COMPLETION DATE:** 8/9/11	**DRILLER:** Karl Reinbold & Gavin Armstrong, SIFU
DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Dual Tube cores down to 20' D. No MW was installed.		**LOGGED BY:** William "Pete" Sokoloski, NWDO--DDAGW

DIAMETER (in): 2.25 O.D. | **TOTAL DEPTH** (ft): 20 | **REFUSAL** (ft):

NOTES: 10:42 hours begin; end @ 11:20 hours

GROUND WATER LEVELS

Date	Time	Depth (ft)	Notes

DEPTH (ft)	CORING: Core Type	CORING: Core Interval/ Recovery (ft)	SAMPLING: Sample Interval (ft)	SAMPLING: Sample Purpose/ID	SAMPLING: PID (ppmv)	REMARKS	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION
2	DT	0.0-4.0 2.9	0.0 - 3.0	NS = Not Sampled	--	1 2	3'	SM	dark, yellow-brown SILTY SAND; 10:42 hours begin
4			3.0 - 4.1	NS	0		4.1'	SW-SM	well-graded SAND / SILTY SAND; wet 3-4.1'
6	DT	4.0-8.0 4.0	4.1 - 8.0	NS	--		8'	CL	reddish brown grading to dark yellow-brown SANDY LEAN CLAY, hard, dry, low plasticity, trace coarse SAND and fine GRAVEL
8									
10	DT	8.0-12.0 4.0	8.0 - 12.0	NS	--		12'	CL	grey LEAN CLAY, firm, dry to E.O.B. @ 20', trace GRAVEL 8-20'
12									
14	DT	12.0-16.0 3.0	12.0 - 16.0	NS	--		16'	CL	(same as above)
16									
18	DT	16.0-20.0 4.0	16.0 - 20.0	NS	--		20'	CL	(same as above) but with up to 1.5-3.0 cm. diameter GRAVEL (trace)
20						3 4			End of Soil Boring at 20' b.g.s., 11:20 hours

REMARKS:
1. Per hand-written, soil boring log sheet, "No monitoring well set. Assume any loss is from bottom of run. Intended to collect continuous core in 4 ft. pushes."
2. Per hand-written, soil boring log sheet, "Hole backfilled with cuttings and granular bentonite."
3. Per Geoprobe log book, "(SE corner) DT cores to 20'. No well (dry & hard)."
4. ABREVIATIONS USED: b.g.s. = Subsurface measurements in feet "below ground surface"; a.m.s.l. = feet above mean sea level; E.O.B. = End of Boring; GP = Geoprobe; DT = Geoprobe Dual Tube soil cores; SB = soil boring.

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Sandusky County, NWDO

Project No./Type: USEPA ID: OHD980905251/

DERR-SIFU
Soil Boring Log
GP-3 (SB-3)

Page 1 of 1

LAT/LONG and/or **LOCATION DESCRIPTION:** NorthEast corner of landfill. NE of leachate collection sump. E. side of drainage ditch. ~15' S. of tree line.

GROUND ELEVATION:	**TOC ELEVATION:**	**DRILLING SERVICES:** Ohio EPA DERR-SIFU
START DATE: 8/9/11	**COMPLETION DATE:** 8/9/11	**DRILLER:** Karl Reinbold & Gavin Armstrong, SIFU
DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Dual Tube cores down to 12' D. No MW was installed.		**LOGGED BY:** William "Pete" Sokoloski, NWDO--DDAGW
DIAMETER (in): 2.25 O.D.	**TOTAL DEPTH** (ft): 12	**REFUSAL** (ft): 12

GROUND WATER LEVELS

Date	Time	Depth (ft)	Notes

NOTES: 12:00 hours begin

DEPTH (ft)	CORING: Core Type	CORING: Core Interval/ Recovery (ft)	SAMPLING: Sample Interval (ft)	SAMPLING: Sample Purpose/ID	SAMPLING: PID (ppmv)	REMARKS	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION
			0.0 - 0.5	CLP Surface Soil Sample, SO-3; 0-6"; 1640 hours; CLP # M/E5KR6	--	1, 2		ML	dark, yellow brown SANDY SILT; burned wood fragment @ 1.8--1.9'
2	DT	0.0-4.0 2.9	0.5 - 4.0	NS = Not Sampled	--		2'	CL/ML	brown with grey mottling SANDY SILT towards LEAN CLAY, dry, low plasticity, firm, trace (from 2--4') increasing to "few" (5-10%) GRAVEL; includes some grey, white & reddish ozidized areas from 2--10.5'
4									
6	DT	4.0-8.0 4.0	4.0 - 8.0	NS	--				
8									
10	DT	8.0-12.0 4.0	8.0 - 12.0	CLP Soil Sample, SO-1; 8-12'; 1235 hours; CLP # M/E5KR4; VOC soil sample, 8-9'	--		9.5'	CL/ML	(same as above), but with [only] reddish-brown from ozidization from 9.5--10.5'
							10.5'	CL/ML	grey LEAN CLAY to SILT, hard, low to no plasticity, dry, trace GRAVEL & coarse SAND; dry hole
12						3, 4	12'		End of Soil Boring with Refusal at 12' b.g.s.

REMARKS:
1. Per hand-written, soil boring log sheet, "No monitoring well set. Assume any core loss is from bottom of run. Intended to collect continuous core in 4 ft. pushes."
2. Per hand-written, soil boring log sheet, "Hole backfilled with cuttings and granular bentonite."
3. Per Geoprobe log book, "(NE corner). DT cores to 12' -- 'Refusal'."
4. ABREVIATIONS USED: CLP = USEPA's Contract Laboratory Program; b.g.s. = Subsurface measurements in feet "below ground surface"; E.O.B. = End of Boring; GP = Geoprobe; DT = Geoprobe Dual Tube soil cores; SB = soil boring.

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Project No./Type: USEPA ID: OHD980905251/

DERR-SIFU
Soil Boring Log
GP-4 (SB-4)

Page 1 of 1

LAT/LONG and/or **LOCATION DESCRIPTION:** NorthWest corner of landfill, ~20' east of creek.

GROUND ELEVATION:
TOC ELEVATION:
DRILLING SERVICES: Ohio EPA DERR-SIFU
START DATE: 8/9/11
COMPLETION DATE: 8/9/11
DRILLER: Karl Reinbold & Gavin Armstrong, SIFU
DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Dual Tube (DT) cores down to 14' D. No MW was installed.
LOGGED BY: William "Pete" Sokoloski, NWDO--DDAGW
DIAMETER (in): 2.25 O.D.
TOTAL DEPTH (ft): 14
REFUSAL (ft): 14

GROUND WATER LEVELS

Date	Time	Depth (ft)	Notes

NOTES: Begin @ 14:45 hours; Sunny, ~80 degrees F.

DEPTH (ft)	CORING: Core Type	CORING: Core Interval/ Recovery (ft)	SAMPLING: Sample Interval (ft)	SAMPLING: Sample Purpose/ID	SAMPLING: PID (ppmv)	REMARKS	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION
			0.0 - 0.5	Surface, SO-13; 1600 hrs.; 2-6"; CLP # M/E5KS6; MS/MSD	--	1 2	1.8'	SP	brown SAND, poorly graded (well sorted) sand, wood chip @ 0.4'; FILL?
2	DT	0.0-4.0 2.6	0.5 - 4.0	NS = Not Sampled	0		4'	SC	brown CLAYEY SAND
4							4.6'	SC	same as above, but moist from 4--4.6'
							5.6'	SC	same as above, but wet from 4.6--5.6'
6	DT	4.0-8.0 3.1	4.0 - 8.0	NS	--		5.8' 6' 6.2'	CL	blue-grey SANDY LEAN CLAY (CL), firm, dry, trace coarse SAND & fine GRAVEL; same as above, but changing color to brown CL [LEAN CLAY] from 5.8--6'; brown GRAVEL with SAND (GW), well graded (poorly sorted), moist to wet 6--6.2'
8			8.0 - 10.0	NS	--		8.8' 9.4'	CL	brown LEAN CLAY, hard, low plasticity, dry 6.2--9.4'; trace GRAVEL (no dilantancy); change to dark yellow brown CL [LEAN CLAY]; medium plasticity, dry
10	DT	8.0-12.0 4.0						CL	changing to grey CL [LEAN CLAY], with brown oxidized zone (fracture), moist 9-12'
12			10.0 - 14.0	CLP Soil Sample, SO-2; 10-14'; @ 1500 hours; CLP # M/E5KR5; VOC soil sample, 12-14'	--		12'	CL	grey SANDY LEAN CLAY, very hard, no gravel, "hardpan" or diamicton; dry 12--14'
14	DT	12.0-15.0 2.0				3 4	14'		End of Soil Boring with Refusal at 14' b.g.s.

REMARKS:
1. Per hand-written, soil boring log sheet, "No monitoring well set. Assume any core loss is from bottom of run. Intended to collect continuous core in 4 ft. pushes."
2. Per hand-written, soil boring log sheet, "Hole backfilled with cuttings and granular bentonite."
3. Per Geoprobe log book, "(NW corner). DT cores to 15'. (Refusal -- hard & dry)."
4. ABREVIATIONS USED: CLP = USEPA's Contract Laboratory Program; b.g.s. = Subsurface measurements in feet "below ground surface"; E.O.B. = End of Boring; GP = Geoprobe; DT = Geoprobe Dual Tube soil cores; SB = soil boring.

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Groveport, OH 43125
Telephone: 614-836-8760, Fax: 614-836-8795
ed.link@epa.state.oh.us

Clyde Dump -- Site Re-Assessment
749 West McPherson Hwy (St. Rt. 20)
Clyde, OH 43410
Sandusky County, NWDO

Project No./Type: USEPA ID: OHD980905251/

DERR-SIFU
Soil Boring Log
GP-5 (SB-7)

Page 1 of 1

LAT/LONG and/or **LOCATION DESCRIPTION:** Central part of landfill

GROUND ELEVATION:	**TOC ELEVATION:**	**DRILLING SERVICES:** Ohio EPA DERR-SIFU
START DATE: 8/10/11	**COMPLETION DATE:** 8/10/11	**DRILLER:** Karl Reinbold & Gavin Armstrong, SIFU
DRILLING & SAMPLING METHODS: SB-5 & SB-6 attempted, but hit refusal. SB-7 (GP-5) completed w/ DT cores down to 18'D w/ refusal. No MW installed.		**LOGGED BY:** William "Pete" Sokoloski, NWDO--DDAGW

DIAMETER (in): 2.25 O.D. | **TOTAL DEPTH** (ft): 18 | **REFUSAL** (ft): 18

NOTES: Sunny, ~70 degrees F.; 09:15 hours begin

GROUND WATER LEVELS

Date	Time	Depth (ft)	Notes

DEPTH (ft)	CORING: Core Type	CORING: Core Interval/ Recovery (ft)	SAMPLING: Sample Interval (ft)	SAMPLING: Sample Purpose/ID	SAMPLING: PID (ppmv)	REMARKS	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION
			0.0 - 0.5	Surface, 0-6", SO-5 (10:00, CLP# M/E5KR8) & dup., SO-12 (1015, ME5KS5)	--	1 2 3 4		CL	brown LEAN CLAY changing to
2	DT	0.0-4.0 2.2	0.5 - 4.0	NS = Not Sampled	0		1'	CL	dark brown to black in color LEAN CLAY, with trace GRAVEL; piece of rounded gravel 4.5--4.6', dry
4							4.6'	CL/ML	brown LEAN CLAY to SILT, firm, dry
6	DT	4.0-8.0 3.3	4.0 - 8.0	NS	0		5.8' 6.2'	CL/ML	greyish brown SAND with GRAVEL, SILT & CLAY (SW), well graded (poorly sorted)
							8'	CL/ML	brown LEAN CLAY to SILT, firm, dry, trace GRAVEL
8									FILL / WASTE: brown to black GRAVEL, BRICK, PAPER, WOOD; red (brick) in areas, moist to wet, 8--18' [of fill]
10	DT	8.0-12.0 1.3	8.0 - 11.9	NS	0				
							11.5'		FILL / WASTE: (same as above), but black in color from 11.5--13'
12									
14	DT	12.0-16.0 2.4	11.9 - 15.4	CLP Soil Sample, SO-04; 11.9--15.4'; 0945 hours; CLP # M/E5KR7; VOC from 11.9--12.5'	0		13.3' 13.6'		FILL / WASTE: black LEAN CLAY
									FILL / WASTE: change to brown color waste, trace glass, moist
16							16.2' 16.4'		FILL / WASTE: same as above, but wet
	DT	16.0-18.0 1.4	15.4 - 18.0	NS	--				FILL / WASTE: same as above, but dry from 16.4' to E.O.B.
18							18'		End of Soil Boring with Refusal at 18' b.g.s.

REMARKS:
1. Per Geoprobe log book, "SB-5 -- DT to 7'. (Refusal) Moved 5' W. DT to 8'." [Refusal]. "SB-6 -- DT to 4' (Refusal)." "SB-7 -- DT to 18' (Refusal in clay)." [No monitoring well set.]
2. Per hand-written, soil boring log sheet, "Boring into waste. Tried previously over waste in western part of landfill @ 0826 hours [SB-5] & hit refusal at 8'. Moved rig 5' W. & hit refusal at 4'. Moved rig ~20 yards N. [SB-6] & hit refusal @ 4' again."
3. Per soil boring log sheet, "PID was 0 ppm @ each of these attempts [SB-5 to SB-7], except a thin layer of organic plant material (seeds)= 4.7 ppm."
4. Per hand-written, soil boring log sheet, "Assume loss is from bottom of run. Intended to collect continuous core in 4 ft. pushes, unless denoted otherwise in recovery column." "Hole backfilled with cuttings and granular bentonite."

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DERR-SIFU
Soil Boring Log
GP-6 (SB-8)

Page 1 of 1

LAT/LONG and/or **LOCATION DESCRIPTION:** Northern part of the southern half of the landfill.

GROUND ELEVATION:	**TOC ELEVATION:**	**DRILLING SERVICES:** Ohio EPA DERR-SIFU
START DATE: 8/10/11	**COMPLETION DATE:** 8/10/11	**DRILLER:** Karl Reinbold & Gavin Armstrong, SIFU
DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Dual Tube cores down to 20' D. No MW was installed.		**LOGGED BY:** William "Pete" Sokoloski, NWDO--DDAGW
DIAMETER (in): 2.25 O.D.	**TOTAL DEPTH** (ft): 20	**REFUSAL** (ft):

NOTES: 10:10 hours begin

GROUND WATER LEVELS

Date	Time	Depth (ft)	Notes

DEPTH (ft)	CORING: Core Type	CORING: Core Interval/ Recovery (ft)	SAMPLING: Sample Interval (ft)	SAMPLING: Sample Purpose/ID	SAMPLING: PID (ppmv)	REMARKS	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION
			0.0 - 0.5	CLP Surface Soil Sample, SO-07; 0-6"; 1110 hours; CLP # M/E5KS0	0	1 2 3	0.4'	CL	brown LEAN CLAY
2	DT	0.0-4.0 3.2	0.5 - 4.0	NS = Not Sampled	0		4.9'	SC	CLAYEY SAND with GRAVEL; little (15-25%) to some (30-45%) coarse, sand-sized limestone to gravel-sized pieces
6	DT	4.0-8.0 3.4	4.0 - 8.0	NS	0		6.6'	SM	SILTY SAND
							7'	GW	FILL / WASTE: red BRICK material
							8.3'	SW	black SAND, moist to wet, WELL GRADED (poorly sorted) sand
							8.8'	GW	light grey GRAVEL with SAND, lime/limestone, WELL GRADED (poorly sorted) gravel, moist @ 8.8'
10	DT	8.0-12.0 1.6	8.0 - 12.0	NS	--			SM	STAINED NATIVE MATERIAL: black, brown, grey SILTY SAND, moist
			12.0 - 13.3	CLP Soil Sample, SO-06; 12--13.3'; 1050 hours; CLP # M/E5KR9; 13--13.3' VOCs	0		12'	SP	black SAND with GRAVEL, wet, POORLY GRADED (well sorted), wet 12--20'
							13'	SM	black grading to brown SILT, wet
14	DT	12.0-16.0 2.5	13.3 - 16.0	NS	0		13.3'	SM	grey in color SILT, wet
18	DT	16.0-20.0 3.9	16.0 - 20.0	NS	0		19.2'	SM	
							20'	ML	grading to brown SANDY SILT, wet, trace coarse sand
20						4			End of Soil Boring at 20' b.g.s.

REMARKS:
1. Per Geoprobe log book, " DT to 20'. (Just into hard clay)."
2. Per hand-written, soil boring log sheet, "Boring into waste. No well set. Assume any core loss is from bottom of run. Intended to collect continuous core in 4 ft. pushes."
3. Per hand-written, soil boring log sheet, "Hole backfilled with cuttings and granular bentonite."
4. ABREVIATIONS USED: CLP = USEPA's Contract Laboratory Program; b.g.s. = Subsurface measurements in feet "below ground surface"; E.O.B. = End of Boring; GP = Geoprobe; DT = Geoprobe Dual Tube soil cores; SB = soil boring.

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Sandusky County, NWDO

Project No./Type: USEPA ID: OHD980905251/

GP-7 (SB-9)
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LAT/LONG and/or **LOCATION DESCRIPTION:** SouthEast corner of landfill

GROUND ELEVATION:	**TOC ELEVATION:**	**DRILLING SERVICES:** Ohio EPA DERR-SIFU
START DATE: 8/10/11	**COMPLETION DATE:** 8/10/11	**DRILLER:** Karl Reinbold & Gavin Armstrong, SIFU
DRILLING & SAMPLING METHODS: Soil coring using GP DT cores down to 20' D. Collected GW sample w/ GP GW Sampler. No MW was installed.		**LOGGED BY:** William "Pete" Sokoloski, NWDO--DDAGW
DIAMETER (in): 2.25 O.D.	**TOTAL DEPTH** (ft): 20	**REFUSAL** (ft):

GROUND WATER LEVELS

Date	Time	Depth (ft)	Notes
08/10/11	13:30	10.90 ▽	after sampling (~661' a.m.s.l.)

NOTES: 12:31 hours begin. Sunny / partly cloudy, ~78 degrees F.

DEPTH (ft)	CORING: Core Type	CORING: Core Interval/ Recovery (ft)	SAMPLING: Sample Interval (ft)	SAMPLING: Sample Purpose/ID	SAMPLING: PID (ppmv)	REMARKS	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION
			0.0 - 0.5	CLP Surface Soil Sample, SO-09; 0-6"; 1320 hours; CLP # M/E5KS2	--	1, 2		ML	brown to grey SANDY SILT
2	DT	0.0-4.0 3.6	0.5 - 4.0	NS = Not Sampled	0				
							3.2'	ML	brown grading to dark brown SILT with SAND & GRAVEL, dry to moist; a little coarse sand (15-25%) to fine gravel; angular to sub-angular in shape throughout
4							4'		
6	DT	4.0-8.0 2.7	4.0 - 8.0	NS	0			CL	FILL / WASTE: brown to black SANDY LEAN CLAY, trace GRAVEL, moist @ 4'
8							8'	CL	FILL / WASTE: same as above, but changing in color to grey to greenish grey
							8.4'		CLEARLY DEFINED WASTE plus SAND and GRAVEL: wood
							8.7'		CLEARLY DEFINED WASTE plus SAND and GRAVEL: black SAND & GRAVEL, GLASS, PLASTIC, WIRE, rusty METAL; wet @ 8.65--16.5'
10	DT	8.0-12.0 1.7	8.0 - 12.5	NS	0				
12							12'		Static water level of 10.9' b.g.s. after sampling
							12.8'		WASTE / SAND / GRAVEL: same as above, but changing in color to reddish brown, wet
14	DT	12.0-16.0 1.4	12.5 - 16.0	CLP Soil Sample, SO-08; 12.5--16'; 1310 hours; CLP # M/E5KS1; VOC 12.5--12.8'; SVOC 13--13.4'	0			ML	STAINED NATIVE MATERIAL: dark grey to black SILT, wet
16						3, 4	16'		
							16.5'	ML	(same as above), wet
18	DT	16.0-20.0 4.0	16.0 - 20.0	CLP Leachate/G.W. Sample, L-10; [16--20' screened int.]; 1330 hours; CLP # M/E5KT6	0			ML	UN-STAINED NATIVE MATERIAL: grading to brown SANDY SILT, trace coarse SAND (native un-stained material, the same as end of boring GB-6 [GP-6]), dry 16.5--20'
20							20'		End of Soil Boring at 20' b.g.s.

REMARKS:
1. Per Geoprobe log book, " DT to 20'. GW from 20' (16--20' [screened interval]). (1 tip, 1 screen, ~30' tube)."
2. Per hand-written, soil boring log sheet, "Boring into waste. No well set. Assume any core loss is from bottom of run. Intended to collect continuous core in 4 ft. pushes." "Hole backfilled with cuttings and granular bentonite." [Temp. well removed.]
3. Per hand-written, soil boring log sheet, "Collected LE/GW sample L-10 thru Geoprobe drill rod using checkvalve & tubing. Collected 6 amber jars [SVOC] and VOC sample (E5KT6) plus plastic bottles for cyanide & total metals (ME5KT6) @ 1330 hours ...."
4. Per soil boring log sheet, ".... PID read 0 ppm inside top of drill string after sampling. Estimated suface elevation with GPS equipment to be ~661' above mean sea level. Water level inside drill string after sampling was ~10.9' below ground surface."

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DERR-SIFU
Soil Boring Log
GP-8 (SB-10)

Page 1 of 1

LAT/LONG and/or **LOCATION DESCRIPTION:** SouthWest corner of landfill

GROUND ELEVATION: | **TOC ELEVATION:** | **DRILLING SERVICES:** Ohio EPA DERR-SIFU

START DATE: 8/10/11 | **COMPLETION DATE:** 8/10/11 | **DRILLER:** Karl Reinbold & Gavin Armstrong, SIFU

DRILLING & SAMPLING METHODS: Soil coring using Geoprobe Dual Tube cores down to 18.5' D. No MW was installed.

LOGGED BY: William "Pete" Sokoloski, NWDO--DDAGW

DIAMETER (in): 2.25 O.D. | **TOTAL DEPTH** (ft): 18.5 | **REFUSAL** (ft):

NOTES: 13:52 hours begin

GROUND WATER LEVELS

Date	Time	Depth (ft)	Notes

DEPTH (ft)	CORING: Core Type	CORING: Core Interval/ Recovery (ft)	SAMPLING: Sample Interval (ft)	SAMPLING: Sample Purpose/ID	SAMPLING: PID (ppmv)	REMARKS	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION
			0.0 - 0.5	CLP Surface Soil Sample, SO-11; 0-6"; 1440 hours; CLP # M/E5KS4	0	1 2 3		ML	brown SANDY SILT, firm, dry, with coarse SAND-sized grains
2	DT	0.0-4.0 3.8	0.5 - 4.0	NS = Not Sampled	0				
							3.2'	ML	(same as above) but change to grey, few (5-10%) coarse SAND-sized grains
4							4'		
							4.3'	ML	grey LEAN CLAY (CL), firm, dry @ 4.0'
							5.3'		brown SANDY SILT, firm, dry, trace (< 5 %) coarse SAND-sized rocks
6	DT	4.0-8.0 4.0	4.0 - 8.0	NS	0				CLEARLY DEFINED WASTE plus SANDY SILT: dark brown to black GLASS, SAND, SILT, BRICK, crushed LIMESTONE, SANDY SILT
							6.7'		
							7'		CLEARLY DEFINED WASTE plus SANDY SILT: (same as above), but wet @ 6.7--7.0'
8									CLEARLY DEFINED WASTE plus SANDY SILT: (same as above), but not wet, dry @ 8.0'
			8.0 - 10.6	NS	0				
10	DT	8.0-12.0 2.9		CLP Soil Sample, SO-10; 10.6--11.5'; 1420 hours; CLP # M/E5KS3			10.3'		
			10.6 - 11.5		0		10.7'	SP	STAINED NATIVE MATERIAL: black SAND; wet, fine, poorly-graded sand; little gravel in upper part @ 10.3--10.7'; wet @ 10.4--13.15'
12								SP	(same as above), but no gravel, wet
							13.2'		
14	DT	12.0-16.0 4.0	11.5 - 16.0	NS	--			ML	brown SANDY SILT, firm, dry, mottled reddish brown, trace GRAVEL, dry @ 13.15--18.5'
16							16'		
	DT	16.0-18.5 2.5	16.0 - 18.5	NS	--			ML	grey SILT, trace GRAVEL, hard (broken into small pieces from drilling), dry
18							18.5'		
						4			End of Soil Boring at 18.5' b.g.s.

REMARKS:
1. Per hand-written, soil boring log sheet, "Boring into waste. No well set. Assume any core loss is from bottom of run. Intended to collect continuous core in 4 ft. pushes." "Boring backfilled with cuttings and granular bentonite."
2. Per Geoprobe log book, " DT to 18'."
3. Per hand-written, soil boring log sheet, "1355 hours check PID with Sharpie marker. Reads OK."
4. ABREVIATIONS USED: CLP = USEPA's Contract Laboratory Program; b.g.s. = Subsurface measurements in feet "below ground surface"; E.O.B. = End of Boring; GP = Geoprobe; DT = Geoprobe Dual Tube soil cores; SB = soil boring.

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APPENDIX E

Complete Analytical Results

And Data Tables

Controlled Document

ESAT5.316.00067
ack
9-22-11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: 2 September 2011

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: OEPA
victoria.sigler@epa.state.oh.us; wendy.vorwerk@epa.state.oh.us

Level 3 Data Validation

We have reviewed the data for the following case:

SITE Name: Clyde Dump (OH)

Case Number: 41647 SDG Number: E5KS7

Number and Type of Samples: 12 Water Samples (12 VOA, 10 SVOA, 10 Pest, 10 Aro)

Sample Numbers: E5KS7- E5KS9, E5KT0- E5KT8

Laboratory: ALS Laboratory Group Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SA-5J**

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KS7
Laboratory: ALS Laboratory Group

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twelve (12) water samples labeled E5KS7- E5KS9 and E5KT0-E5KT8, were shipped to ALS Laboratory Group located in Salt Lake City, UT. All samples were collected between 8/4/11 and 8/10/11 and received between 8/9/11 and 8/11/11 intact. All samples arrived at the proper shipping temperature range of 2 - 6°C, except for sample E5KS7 for the semivolatile, pesticide and aroclor analysis. Sample E5KS7 arrived in a cooler with a temperature of 20°C.

All samples were analyzed for the volatile list of compounds. Ten samples; E5KS7- E5KS9 and E5KT0-E5KT6, were analyzed for the semivolatile, pesticide and aroclor list of 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 2.6).

Sample E5KS7 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

Sample E5KT7 and E5KT8 were identified as a trip blanks. Sample E5KT1 was identified as field duplicate but it is unclear as to which sample is its field duplicate.

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KS7
Laboratory: ALS Laboratory Group

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. The compound was not detected in the samples. Non-detected compounds are qualified "R".

E5KS7, E5KS7MS, E5KS7MSD, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5, E5KT6, E5KT7, E5KT8, VBLKW1, VHBLKW1
1,4-Dioxane

The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and non-detected compounds are not qualified.

E5KS7, E5KS7MS, E5KS7MSD, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5, E5KT6, E5KT7, E5KT8, VBLKW1, VHBLKW1
1,4-Dioxane-d8

The following volatile samples are associated with an opening continuing calibration percent difference (%D) outside criteria. The compound was not detected in the samples. Non-detected compounds are qualified "UJ".

E5KS7, E5KS7MS, E5KS7MSD, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5, E5KT6, E5KT7, E5KT8, VBLKW1, VHBLKW1
Bromomethane

The following volatile samples are associated with an opening and closing continuing calibration with relative response factors (RRF) outside criteria. The compound was not detected in the samples. Non-detected compounds are qualified "R".

E5KS7, E5KS7MS, E5KS7MSD, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5, E5KT6, E5KT7, E5KT8, VBLKW1, VHBLKW1
1,4-Dioxane

The following volatile samples are associated with an opening and closing continuing calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and non-detected compounds are not qualified.

E5KS7, E5KS7MS, E5KS7MSD, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5, E5KT6, E5KT7, E5KT8, VBLKW1, VHBLKW1
1,4-Dioxane-d8

The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. The compound was not detected in the samples. Non-detected compounds are not qualified.

E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5, SBLK55
Pentachlorophenol

4. BLANKS

The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated trip blank has common contaminant analyte concentration less than 2x the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to 2x the CRQL.

Acetone
E5KS7, E5KS7MS, E5KS7MSD, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5, E5KT6

The following semivolatile samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL and qualified "U".

Benzaldehyde
E5KS7, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT6

Acetophenone
E5KS9, E5KT0, E5KT1, E5KT2, E5KT3

Di-n-butylphthalate
E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5

Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Benzo(g,h,i)perylene
E5KT2

The following semivolatile samples have common contaminant analyte concentrations reported less than 5x the CRQL. The associated method blank has common contaminant analyte concentration less than 5x the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to 5x the CRQL.

Bis(2-ethylhexyl)phthalate
E5KS8, E5KS9, E5KT0, E5KT2, E5KT5, E5KT6

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. See Section 12 for more information.

Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz @ 17.80
E5KS8, E5KT0, E5KT1, E5KT2, E5KT4

Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz @ 18.59
Unknown Naphthalene, 1,2,3,4-tetrahydro-2-phenyl @ 23.66
E5KS7

Unknown Phthalic anhydride @ 18.59
Unknown 2-Propenamide, N-[4,5-dihydro-5-oxo-2ph @ 23.66
E5KT6

Unknown Octadecanoic acid, ethenyl ester @ 20.34
E5KT0

Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate @ 22.09
E5KS8, E5KS9, E5KT3, E5KT4, E5KT5

CAS No. 107-41-5 Hexylene Glycol
E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following semivolatile sample has deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E5KT6
4-Chloroaniline, Hexachlorocyclopentadiene, Fluoranthene, Pyrene, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

The following pesticide sample has surrogate recovery below the lower limit (30%) but greater than or equal to the expanded lower limit (10%) of the criteria window. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E5KT6
alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane, Toxaphene

The following aroclor sample has surrogate recovery below the lower limit (30%) but greater than or equal to the expanded lower limit (10%) of the criteria window. The compounds were not detected in the samples. Non-detected compounds are qualified "UJ".

E5KT6
Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E5KS7 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

No Problems Found.

6B. LABORATORY CONTROL SAMPLE

No Problems Found.

7. FIELD BLANK AND FIELD DUPLICATE

Sample E5KT1 was identified as field duplicate but it is unclear as to which sample is its field duplicate.

Sample E5KT7 and E5KT8 were identified as a trip blanks. Results are summarized in the following table:

	E5KT7	E5KT8
Volatile analytes:	µg/L	µg/L
Acetone	6.4	5.6
# of VOA TICs	0	0

8. INTERNAL STANDARDS

No Problems Found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all volatile, semivolatile, pesticide and aroclor compounds were properly identified.

The following pesticide samples had concentrations not confirmed by the second column analysis but reported on the Laboratory QC Form Is. The compounds were reported by the laboratory properly as non-detected compounds and qualified "U".

E5KS7MS
Alpha-BHC, delta-BHC, Heptachlor epoxide, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, Methoxychlor, Endrin aldehyde, alpha-Chlordane

E5KS7MSD
Alpha-BHC, beta-BHC, delta-BHC, Heptachlor epoxide, Endosulfan II, Endosulfan sulfate, Methoxychlor, Endrin aldehyde, gamma-Chlordane

PLCSW1
Heptachlor, Endrin aldehyde

PLCSW2
4,4'-DDT, Endrin ketone, Endrin aldehyde

PLCSW3
Alpha-BHC, delta-BHC, Heptachlor, Aldrin, Endrin aldehyde

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E5KS8, E5KT0, E5KT1
m,p-Xylene

E5KT7, E5KT8
Acetone

VBLKW1
Methylene chloride

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E5KS7
Naphthalene, 2-Methylnaphthalene, Atrazine, Bis(2-ethylhexyl)phthalate

E5KS7MS, E5KS7MSD
Atrazine, Bis(2-ethylhexyl)phthalate, 2,3,4,6-Tetrachlorophenol

E5KS8, E5KS9, E5KT4
Atrazine

E5KT0, E5KT1
Dimethylphthalate, Atrazine

E5KT2
Phenol, Dimethylphthalate, Atrazine, Phenanthrene, Fluoranthene, Pyrene

E5KT3
Phenol, Caprolactam, Dimethylphthalate, Diethylphthalate, Atrazine, Fluoranthene

E5KT6
Phenol, Acetophenone, 2,4-Dimethylphenol, Naphthalene, Diethylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

SBLK55
Benzaldehyde, Acetophenone, Di-n-butylphthalate, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

SBLK94
Benzaldehyde, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

SBLK95
Benzaldehyde, Bis(2-ethylhexyl)phthalate

A library search indicates a match below 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified "J".

Unknown 3-Cyclohexyl-1-propyne @ 6.08
Unknown 4H-1-Benzothiopyran-4-one, 2,3-dihydro-, @ 22.08
E5KT2

Unknown Benzene, 1-methyl-2-(1-methylethyl)- @ 7.60
Unknown Adamantane-1-ethynyl @ 10.99
Unknown Phthalic acid, 4-methoxyphenyl 2-methylp @ 21.55
E5KT6

Unknown Sydonone, 3-phenyl- @ 10.02
Unknown 2-Pyridinecarbonitrile @ 10.43
Unknown 1H-Benzotriazole, 5-methyl- @ 11.10
Unknown Benzaldehyde, 3-(4-fluorophenoxymethyl)- @ 14.89
Unknown Xanthine, 1,3-dimethyl-8-[2-[2-methylph @ 17.80
E5KT3

Unknown 1(2H)-dibenzofuranone, 3,4-dihyrdro-8-met @ 12.33
E5KT3, E5KT5

Unknown Phthalic acid, bis(7-methyloctyl) ester @ 15.03
Unknown b-Homomorphinan-7-one, 5,6,8,14-tetradehy @ 22.07
E5KT1

Unknown 2-Undecen-4-ol @ 17.26
Unknown Benzo[c]thiphen-1(3H)-one, 3-(3-oxobenz @ 18.59
Unknown Naphthalene, 1,2,3,4-tetrahydro-2-phenyl @ 23.66
SBLK94

Unknown 3-Methoxy-D-homoestra-1,3,5(10),8-tetrae @ 17.80
E5KS9

Unknown Phthalic anhydride @ 17.80
E5KT5

Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz @ 17.80
Unknown Octadecanoic acid, ethenyl ester @ 20.36
Unknown Picolinyl 8-(5-hexyl-2-furyl)octanoate @ 22.09
SBLK55

Unknown Phthalic anhydride @ 18.59
Unknown 2-Propenamide, N-[4,5-dihydro-5-oxo-2-ph @ 23.66
SBLK95

Unknown Palmitic acid vinyl ester @ 20.35
E5KS9, E5KT1, E5KT2, E5KT3

Unknown 16-Hexadecanoyl hydrazide @20.35
E5KS8

Unknown 2-[4-Chlorophenyl]-6-chloro-8-trifluoro @ 22.07
E5KT0

A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified "NJ".

Reviewed by: Deborah Connet / Techlaw-ESAT
Date: 9/22/2011

CAS No. 57-10-3 n-Hexadecanoic acid
E5KS8, E5KS9, E5KT6

CAS No. 70-55-3 Benzenesulfonamide, 4-methyl-
CAS No. 85-44-9 Phthalic anhydride
CAS No. 88-19-7 Benzenesulfonamide, 2-methyl-
CAS No. 98-73-7 Benzoic acid, p-tert-butyl-
CAS No. 13798-23-7 Sulfur
E5KT6

CAS No. 77-71-4 2,4-Imidazolidinedione, 5,5-dimethyl-
CAS No. 1002-84-2 Pentadecanoic acid
E5KT3

CAS No. 107-41-5 Hexylene Glycol
SBLK55

CAS No. 136-85-6 1H-Benzotriazole, 5-methyl-
E5KS9, E5KT0, E5KT2, E5KT3

CAS No. 301-02-0 9-Octadecenamide, (Z)-
E5KS7

CAS No. 1610-18-0 Prometon
E5KS7, E5KS9, E5KT3

CAS No. 29878-31-7 1H-Benzotriazole, 4-methyl-
E5KS8, E5KT1, E5KT4

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E5KS7MS, E5KS7MSD
4,4'-DDE, Endrin ketone

E5KS9
Endrin

E5KT2
gamma-Chlordane

E5KT3, E5KS7MSD
4,4'-DDE

E5KT4
4,4'-DDT

E5KT5
gamma-BHC (Lindane)

E5KT6
beta-BHC

PLCSW1
gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endosulfan sulfate, gamma-Chlordane

PLCSW2
gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endosulfan sulfate

PLCSW3
gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, gamma-Chlordane

The relative percent difference between analyte results for the following pesticide water sample is greater than 25% and the sample value is less than 25% of the CRQL. The detected compound is qualified "U" as false positives. The reported sample concentration has been elevated to the CRQL.

E5KS7
beta-BHC, gamma-BHC (Lindane), Endosulfan I, 4,4'-DDE, Endrin ketone

E5KS7MS
beta-BHC, Endosulfan I, gamma-Chlordane

E5KS7MSD
Endosulfan I, 4,4'-DDD, alpha-Chlordane

E5KS8
gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Dieldrin, 4,4'-DDE, 4,4'-DDT, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

E5KS9
Heptachlor, Heptachlor expoxide, Dieldrin, 4,4'-DDT, Endrin ketone, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

E5KT0
gamma-BHC (Lindane), Heptachlor, Dieldrin, 4,4'-DDE, 4,4'-DDT, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

E5KT1
gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Dieldrin, 4,4'-DDE, 4,4'-DDT, Endrin ketone, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

E5KT2
Heptachlor, Heptachlor epoxide, 4,4'-DDE, 4,4'-DDT, Endrin ketone, Endrin aldehyde, alpha-Chlordane

E5KT3
Heptachlor, Endrin aldehyde, alpha-Chlordane

E5KT4
Dieldrin, gamma-Chlordane

E5KT5
beta-BHC, Dieldrin, 4,4'-DDE, Endrin ketone

E5KT6
gamma-BHC (Lindane), Aldrin, 4,4'-DDE, Endosulfan sulfate

PBLKW1
Endrin ketone

PBLKW2, PBLKW3
beta-BHC

PLCSW1, PLCSW3
4,4'-DDT, Endrin ketone

The relative percent difference between analyte results for the following pesticide water sample is greater than 25% and the sample value is greater than 25% of the CRQL. Detected compounds are qualified "J".

E5KT5
gamma-BHC (Lindane)

PLCSW1
Endosulfan sulfate

The following aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

ALCSW1, ALCSW2
Aroclor-1016

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KS7
Laboratory: ALS Laboratory Group

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide and aroclor analysis was acceptable.

12. ADDITIONAL INFORMATION

The Semivolatile Sample Summary Reports does not include the TICs without CAS Numbers. Please refer to the TIC Report – NFG #9 for a complete list of the TICs associated with following samples.

E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT5, E5KT6, SBLK55, SBLK94, SBLK95

The following semivolatile samples have a compound identified by CAS No. in some samples and as an Unknown TIC in other samples. A comparison of the chromatograms demonstrated that the same compound was present in the respective samples. Copies of the chromatograms are included with the validation report. See Section 4 for more information.

Unknown @ 3.54
E5KT2, E5KT4, E5KT5
versus
CAS No. 107-41-5 Hexylene Glycol
SBLK55

Unknown @ 17.80
E5KS8, E5KT0, E5KT1, E5KT2
versus
Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz @ 17.80
SBLK55

Unknown @ 22.09
E5KS9, E5KT4, E5KT5
versus
Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate @ 22.09
SBLK55

Unknown @ 18.59
Unknown @ 23.66
E5KS7
versus
Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz @ 18.59
Unknown Naphthalene, 1,2,3,4-tetrahydro-2-phenyl @ 23.66
SBLK94

Unknown @ 23.66
E5KT6
versus
Unknown 2-Propenamide, N-[4,5-dihydro-5-oxo-2ph @ 23.66
SBLK95

The following pesticide samples were not included in the sample summary or superset. Form Is are included with the hard copy data package.

PLCSW1, PLCSW2, PLCSW3

The following aroclor samples were not included in the sample summary or superset. Form Is are included with the hard copy data package.

ALCSW1, ALCSW2, ALCSW3

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KS7
Laboratory: ALS Laboratory Group

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: 9/22/2011

Sample Summary Report

Case No:	41647	Contract:	EPW11037	SDG No:	E5KS7	Lab Code:	DATAC
Sample Number:	ABLKW1	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: ABLKW2	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: ABLKW3	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-1	pH: 1.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-1	pH: 7.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-1	pH: 7.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	0.65	ug/L	1.0	J	J	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	0.16	ug/L	1.0	J	J	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.66	ug/L	1.0	J	J	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	0.22	ug/L	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	0.22	ug/L	1.0	J	J	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
Prometon	2.6	ug/L	1.0	JN	JN	Yes	
9-Octadecenamide, (Z)-	2.8	ug/L	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-1	pH: 7.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	JBP	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	JP	U	Yes	
Heptachlor	0.050	ug/L	1.0	U	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	JP	U	Yes	
Dieldrin	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	JP	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	U	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	JP	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	U	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	U	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7MS	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH: 7.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	3.6	ug/L	1.0			Yes	
Aroclor-1260	3.4	ug/L	1.0			Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7MS	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH: 7.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	U	U	Yes	
Phenol	27	ug/L	1.0			Yes	
2-Chlorophenol	25	ug/L	1.0			Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	33	ug/L	1.0			Yes	
4-Chloro-3-methylphenol	29	ug/L	1.0			Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
Acenaphthene	31	ug/L	1.0			Yes	
4-Nitrophenol	27	ug/L	1.0			Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	30	ug/L	1.0			Yes	
Pentachlorophenol	33	ug/L	1.0			Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
Pyrene	36	ug/L	1.0			Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.65	ug/L	1.0	J	J	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	0.40	ug/L	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	0.40	ug/L	1.0	J	J	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	0.35	ug/L	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7MS	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH: 7.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.54	ug/L	1.0			Yes	
Heptachlor	0.47	ug/L	1.0			Yes	
beta-BHC	0.050	ug/L	1.0	JBP	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
Aldrin	0.52	ug/L	1.0			Yes	
Dieldrin	1.1	ug/L	1.0			Yes	
Endrin	1.0	ug/L	1.0			Yes	
4,4'-DDT	0.99	ug/L	1.0			Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	JP	U	Yes	
4,4'-DDE	0.0056	ug/L	1.0	J	J	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.042	ug/L	1.0	J	J	Yes	
Endrin aldehyde	0.10	ug/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	U	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7MS	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-1	pH: 1.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1-Dichloroethene	45	ug/L	1.0			Yes	
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	
Benzene	48	ug/L	1.0			Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Trichloroethene	47	ug/L	1.0			Yes	
Toluene	48	ug/L	1.0			Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chlorobenzene	49	ug/L	1.0			Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7MSD	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH: 7.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	U	U	Yes	
Phenol	20	ug/L	1.0			Yes	
2-Chlorophenol	19	ug/L	1.0			Yes	
N-Nitroso-di-n-propylamine	24	ug/L	1.0			Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	23	ug/L	1.0			Yes	
Acenaphthene	24	ug/L	1.0			Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
4-Nitrophenol	27	ug/L	1.0			Yes	
2,4-Dinitrotoluene	25	ug/L	1.0			Yes	
Acetophenone	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	28	ug/L	1.0			Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
Pyrene	29	ug/L	1.0			Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.55	ug/L	1.0	J	J	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	0.26	ug/L	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	0.26	ug/L	1.0	J	J	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	0.28	ug/L	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7MSD	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH: 7.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.54	ug/L	1.0			Yes	
Heptachlor	0.48	ug/L	1.0			Yes	
beta-BHC	0.050	ug/L	1.0	U	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
Aldrin	0.53	ug/L	1.0			Yes	
Dieldrin	1.0	ug/L	1.0			Yes	
Endrin	1.0	ug/L	1.0			Yes	
4,4'-DDT	0.92	ug/L	1.0			Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	JP	U	Yes	
4,4'-DDE	0.0047	ug/L	1.0	J	J	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	JP	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.042	ug/L	1.0	J	J	Yes	
Endrin aldehyde	0.10	ug/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	U	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7MSD	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH: 7.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	3.6	ug/L	1.0			Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	3.6	ug/L	1.0			Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS7MSD	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-1	pH: 1.0	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1-Dichloroethene	43	ug/L	1.0			Yes	
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Benzene	46	ug/L	1.0			Yes	
Trichloroethene	44	ug/L	1.0			Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Toluene	47	ug/L	1.0			Yes	
Chlorobenzene	48	ug/L	1.0			Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS8	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-2	pH: 6.0	Sample Date: 08082011	Sample Time: 11:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	U	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	JP	U	Yes	
Heptachlor	0.050	ug/L	1.0	JP	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	JP	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	JP	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	JP	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	JP	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	U	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	JP	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS8	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-2	pH: 6.0	Sample Date: 08082011	Sample Time: 11:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.38	ug/L	1.0	J	J	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	25	ug/L	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	25	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
Total Alkanes	41	ug/L	1.0	J	J	Yes	
Hexylene Glycol			1.0	JNB		No	
1H-Benzotriazole, 4-methyl-	6.6	ug/L	1.0	JN	JN	Yes	
n-Hexadecanoic acid	4.0	ug/L	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS8	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-2	pH: 6.0	Sample Date: 08082011	Sample Time: 11:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS8	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-2	pH: 1.0	Sample Date: 08082011	Sample Time: 11:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	0.11	ug/L	1.0	J	J	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS9	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-3	pH: 6.0	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	U	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	U	U	Yes	
Heptachlor	0.050	ug/L	1.0	JP	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	JP	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	JP	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	U	U	Yes	
Endrin	0.016	ug/L	1.0	J	J	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	JP	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	JBP	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	JP	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS9	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-3	pH: 1.0	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS9	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-3	pH: 6.0	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	JB	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.43	ug/L	1.0	J	J	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	25	ug/L	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	25	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
Hexylene Glycol			1.0	JNB		No	
1H-Benzotriazole, 5-methyl-	7.9	ug/L	1.0	JN	JN	Yes	
Prometon	2.0	ug/L	1.0	JN	JN	Yes	
n-Hexadecanoic acid	2.0	ug/L	1.0	JN	JN	Yes	
Total Alkanes	32	ug/L	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KS9	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-3	pH: 6.0	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT0	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-4	pH: 6.0	Sample Date: 08082011	Sample Time: 10:15:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT0	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-4	pH: 6.0	Sample Date: 08082011	Sample Time: 10:15:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	JB	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	0.24	ug/L	1.0	J	J	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.47	ug/L	1.0	J	J	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	25	ug/L	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	25	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
1H-Benzotriazole, 5-methyl-	7.0	ug/L	1.0	JN	JN	Yes	
Total Alkanes	26	ug/L	1.0	J	J	Yes	
Hexylene Glycol			1.0	JNB		No	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT0	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-4	pH: 1.0	Sample Date: 08082011	Sample Time: 10:15:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	0.16	ug/L	1.0	J	J	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT0	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-4	pH: 6.0	Sample Date: 08082011	Sample Time: 10:15:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	U	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	JP	U	Yes	
Heptachlor	0.050	ug/L	1.0	JP	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	JP	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	JP	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	JP	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	U	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	JP	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT1	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-5	pH: 7.0	Sample Date: 08082011	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	JB	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	0.20	ug/L	1.0	J	J	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.46	ug/L	1.0	J	J	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
Hexylene Glycol			1.0	JNB		No	
Total Alkanes	24	ug/L	1.0	J	J	Yes	
1H-Benzotriazole, 4-methyl-	6.1	ug/L	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT1	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-5	pH: 7.0	Sample Date: 08082011	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT1	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-5	pH: 7.0	Sample Date: 08082011	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	U	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	JP	U	Yes	
Heptachlor	0.050	ug/L	1.0	JP	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	JP	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	JP	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	JP	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	JP	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	JBP	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	JP	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT1	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-5	pH: 1.0	Sample Date: 08082011	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	0.18	ug/L	1.0	J	J	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT2	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-6	pH: 7.0	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Phenol	0.18	ug/L	1.0	J	J	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	JB	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	0.25	ug/L	1.0	J	J	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.34	ug/L	1.0	J	J	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	0.20	ug/L	1.0	J	J	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Fluoranthene	0.38	ug/L	1.0	J	J	Yes	
Pyrene	0.33	ug/L	1.0	J	J	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	JB	U	Yes	
Chrysene	5.0	ug/L	1.0	JB	U	Yes	
Bis(2-ethylhexyl)	25	ug/L	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	25	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	JB	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	JB	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	JB	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
IH-Benzotriazole, 5-methyl-	5.6	ug/L	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT2	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-6	pH: 7.0	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT2	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-6	pH: 7.0	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	U	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	U	U	Yes	
Heptachlor	0.050	ug/L	1.0	JP	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	JP	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	JP	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	JP	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	JBP	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	JP	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
gamma-Chlordane	0.0068	ug/L	1.0	J	J	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT2	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-6	pH: 1.0	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT3	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-7	pH: 6.0	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Phenol	0.17	ug/L	1.0	J	J	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	JB	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	0.76	ug/L	1.0	J	J	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	0.24	ug/L	1.0	J	J	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	0.18	ug/L	1.0	J	J	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.73	ug/L	1.0	J	J	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Fluoranthene	0.15	ug/L	1.0	J	J	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Imidazolidinedione, 5,5-dimethyl-	16	ug/L	1.0	JN	JN	Yes	
Hexylene Glycol			1.0	JNB		No	
Prometon	5.3	ug/L	1.0	JN	JN	Yes	
Pentadecanoic acid	3.9	ug/L	1.0	JN	JN	Yes	
Total Alkanes	25	ug/L	1.0	J	J	Yes	
1H-Benzotriazole, 5-methyl-	8.2	ug/L	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT3	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-7	pH: 6.0	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	U	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	U	U	Yes	
Heptachlor	0.050	ug/L	1.0	JP	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDE	0.0022	ug/L	1.0	J	J	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	U	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	U	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	JP	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	U	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT3	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-7	pH: 6.0	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT3	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-7	pH: 1.0	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT4	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-8	pH: 6.0	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT4	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-8	pH: 6.0	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	U	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	U	U	Yes	
Heptachlor	0.050	ug/L	1.0	U	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	JP	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	U	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.0021	ug/L	1.0	J	J	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	U	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	U	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	JP	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT4	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-8	pH: 6.0	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	0.38	ug/L	1.0	J	J	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
1H-Benzotriazole, 4-methyl-	6.7	ug/L	1.0	JN	JN	Yes	
Total Alkanes	32	ug/L	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT4	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-8	pH: 1.0	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT5	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location: L-9	pH: 9.0	Sample Date: 08082011	Sample Time: 13:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	U	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT5	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: L-9	pH: 1.0	Sample Date: 08082011	Sample Time: 13:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT5	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: L-9	pH: 9.0	Sample Date: 08082011	Sample Time: 13:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	U	U	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	JB	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	25	ug/L	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	25	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
Total Alkanes	2.7	ug/L	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT5	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: L-9	pH: 9.0	Sample Date: 08082011	Sample Time: 13:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	JP	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.020	ug/L	1.0	JP	J	Yes	
Heptachlor	0.050	ug/L	1.0	U	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	JP	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	JP	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	U	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	JBP	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	U	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	U	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No:	41647	Contract:	EPW11037	SDG No:	E5KS7	Lab Code:	DATAC
Sample Number:	E5KT6	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	L-10	pH:	9.0	Sample Date:	08102011	Sample Time:	13:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0	U	UJ	Yes	
Aroclor-1221	1.0	ug/L	1.0	U	UJ	Yes	
Aroclor-1232	1.0	ug/L	1.0	U	UJ	Yes	
Aroclor-1242	1.0	ug/L	1.0	U	UJ	Yes	
Aroclor-1248	1.0	ug/L	1.0	U	UJ	Yes	
Aroclor-1254	1.0	ug/L	1.0	U	UJ	Yes	
Aroclor-1260	1.0	ug/L	1.0	U	UJ	Yes	
Aroclor-1262	1.0	ug/L	1.0	U	UJ	Yes	
Aroclor-1268	1.0	ug/L	1.0	U	UJ	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT6	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location: L-10	pH: 9.0	Sample Date: 08102011	Sample Time: 13:30:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	UJ	Yes	
beta-BHC	0.018	ug/L	1.0	JB	J	Yes	
delta-BHC	0.050	ug/L	1.0	U	UJ	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	JP	UJ	Yes	
Heptachlor	0.050	ug/L	1.0	U	UJ	Yes	
Aldrin	0.050	ug/L	1.0	JP	UJ	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	UJ	Yes	
Endosulfan I	0.050	ug/L	1.0	U	UJ	Yes	
Dieldrin	0.10	ug/L	1.0	U	UJ	Yes	
4,4'-DDE	0.10	ug/L	1.0	JP	UJ	Yes	
Endrin	0.10	ug/L	1.0	U	UJ	Yes	
Endosulfan II	0.10	ug/L	1.0	U	UJ	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	UJ	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	JP	UJ	Yes	
4,4'-DDT	0.10	ug/L	1.0	U	UJ	Yes	
Methoxychlor	0.50	ug/L	1.0	U	UJ	Yes	
Endrin ketone	0.10	ug/L	1.0	U	UJ	Yes	
Endrin aldehyde	0.10	ug/L	1.0	U	UJ	Yes	
alpha-Chlordane	0.050	ug/L	1.0	U	UJ	Yes	
gamma-Chlordane	0.050	ug/L	1.0	U	UJ	Yes	
Toxaphene	5.0	ug/L	1.0	U	UJ	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT6	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: L-10	pH: 1.0	Sample Date: 08102011	Sample Time: 13:30:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	J	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT6	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: L-10	pH: 9.0	Sample Date: 08102011	Sample Time: 13:30:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	JB	U	Yes	
Phenol	0.29	ug/L	1.0	J	J	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	0.23	ug/L	1.0	J	J	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	0.36	ug/L	1.0	J	J	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	0.26	ug/L	1.0	J	J	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	UJ	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	UJ	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	0.85	ug/L	1.0	J	J	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	UJ	Yes	
Pyrene	5.0	ug/L	1.0	U	UJ	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	UJ	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	UJ	Yes	
Chrysene	5.0	ug/L	1.0	U	UJ	Yes	
Bis(2-ethylhexyl)	25	ug/L	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	25	ug/L	1.0	JB	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	0.25	ug/L	1.0	J	J	Yes	
Benzo(k)fluoranthene	0.24	ug/L	1.0	J	J	Yes	
Benzo(a)pyrene	0.30	ug/L	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	0.28	ug/L	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	0.26	ug/L	1.0	J	J	Yes	
Benzo(g,h,i)perylene	0.27	ug/L	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
Benzoic acid, p-tert-butyl-	37	ug/L	1.0	JN	JN	Yes	
Phthalic anhydride	7.3	ug/L	1.0	JN	JN	Yes	
Sulfur	3.3	ug/L	1.0	JN	JN	Yes	
Benzenesulfonamide, 4-methyl-	2.2	ug/L	1.0	JN	JN	Yes	
Benzenesulfonamide, 2-methyl-	2.1	ug/L	1.0	JN	JN	Yes	
n-Hexadecanoic acid	3.5	ug/L	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT7	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: TB-01	pH: 1.0	Sample Date: 08042011	Sample Time: 13:05:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	6.4	ug/L	1.0	J	J	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: E5KT8	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location: TB-02	pH: 1.0	Sample Date: 08042011	Sample Time: 13:10:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	5.6	ug/L	1.0	J	J	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: PBLKW1	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	U	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	U	U	Yes	
Heptachlor	0.050	ug/L	1.0	U	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	U	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	U	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	JP	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	U	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	U	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: PBLKW2	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	JP	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	U	U	Yes	
Heptachlor	0.050	ug/L	1.0	U	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	U	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	U	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	U	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	U	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	U	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: PBLKW3	Method: Pest	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	ug/L	1.0	U	U	Yes	
beta-BHC	0.050	ug/L	1.0	JP	U	Yes	
delta-BHC	0.050	ug/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	ug/L	1.0	U	U	Yes	
Heptachlor	0.050	ug/L	1.0	U	U	Yes	
Aldrin	0.050	ug/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	ug/L	1.0	U	U	Yes	
Endosulfan I	0.050	ug/L	1.0	U	U	Yes	
Dieldrin	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDE	0.10	ug/L	1.0	U	U	Yes	
Endrin	0.10	ug/L	1.0	U	U	Yes	
Endosulfan II	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDD	0.10	ug/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	ug/L	1.0	U	U	Yes	
4,4'-DDT	0.10	ug/L	1.0	U	U	Yes	
Methoxychlor	0.50	ug/L	1.0	U	U	Yes	
Endrin ketone	0.10	ug/L	1.0	U	U	Yes	
Endrin aldehyde	0.10	ug/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	ug/L	1.0	U	U	Yes	
gamma-Chlordane	0.050	ug/L	1.0	U	U	Yes	
Toxaphene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: SBLK55	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	0.43	ug/L	1.0	J	J	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	0.16	ug/L	1.0	J	J	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	0.36	ug/L	1.0	J	J	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	0.18	ug/L	1.0	J	J	Yes	
3,3'-Dichlorobenzidine	0.30	ug/L	1.0	J	J	Yes	
Benzo(a)anthracene	0.40	ug/L	1.0	J	J	Yes	
Chrysene	0.35	ug/L	1.0	J	J	Yes	
Bis(2-ethylhexyl)	0.61	ug/L	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	0.61	ug/L	1.0	J	J	Yes	
Di-n-octylphthalate	0.23	ug/L	1.0	J	J	Yes	
Benzo(b)fluoranthene	0.28	ug/L	1.0	J	J	Yes	
Benzo(k)fluoranthene	0.37	ug/L	1.0	J	J	Yes	
Benzo(a)pyrene	0.40	ug/L	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	0.20	ug/L	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	0.19	ug/L	1.0	J	J	Yes	
Benzo(g,h,i)perylene	0.19	ug/L	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: SBLK94	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	0.18	ug/L	1.0	J	J	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	U	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	0.16	ug/L	1.0	J	J	Yes	
Benzo(g,h,i)perylene	0.18	ug/L	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: SBLK95	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	0.19	ug/L	1.0	J	J	Yes	
Phenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	
Acetophenone	5.0	ug/L	1.0	U	U	Yes	
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	
Isophorone	5.0	ug/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	
Naphthalene	5.0	ug/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	
Caprolactam	5.0	ug/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluorene	5.0	ug/L	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Atrazine	5.0	ug/L	1.0	U	U	Yes	
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	
Anthracene	5.0	ug/L	1.0	U	U	Yes	
Carbazole	5.0	ug/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Pyrene	5.0	ug/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	
Chrysene	5.0	ug/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	0.22	ug/L	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	0.22	ug/L	1.0	J	J	Yes	
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: VBLKW1	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	0.41	ug/L	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KS7	Lab Code: DATAC
Sample Number: VHBLKW1	Method: VOA_Low_Med	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	UJ	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS7 Location=SW-1 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
1610-18-0	Prometon	10.7275	2.6118	ug/L	JN
301-02-0	9-Octadecenamide, (Z)-	14.8096	2.7977		JN

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS8 Location=SW-2 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	40.5213	ug/L	J
29878-31-7	1H-Benzotriazole, 4-methyl-	8.5396	6.595		JN
57-10-3	n-Hexadecanoic acid	11.9982	4.0007		JN
	Unknown 16-Hexadecanoyl hydrazide	20.3506	4.6006		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS9 Location=SW-3 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	32.0314	ug/L	J
136-85-6	1H-Benzotriazole, 5-methyl-	8.5454	7.8602		JN
1610-18-0	Prometon	10.3276	2.0453		JN
57-10-3	n-Hexadecanoic acid	11.9981	2.0475		JN
	Unknown 3-Methoxy-D-homoestra-1,3,5(10),8-tetraene-17a-o	17.7977	3.1599		J
	Unknown Palmitic acid vinyl ester	20.3505	4.3085		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KT0 Location=SW-4 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	25.6949	ug/L	J
136-85-6	1H-Benzotriazole, 5-methyl-	8.5396	7.0144		JN
	Unknown 2-[4-Chlorophenyl]-6-chloro-8-trifluoromethylcin	22.0681	2.3923		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KT1 Location=SW-5 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	24.121	ug/L	J
29878-31-7	1H-Benzotriazole, 4-methyl-	8.5396	6.1253		JN
	Unknown Phthalic acid, bis(7-methyloctyl) ester	15.0333	2.0918		J
	Unknown Palmitic acid vinyl ester	20.3506	4.5152		J
	Unknown b-Homomorphinan-7-one,5,6,8,14-tetradehydro-2,3,	22.074	2.1067		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KT2 Location=SW-6 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown 3-Cyclohexyl-1-propyne	6.0809	26.7187		J
136-85-6	1H-Benzotriazole, 5-methyl-	8.5454	5.636		JN
	Unknown Palmitic acid vinyl ester	20.3506	5.671		J
	Unknown 4H-1-Benzothiopyran-4-one, 2,3-dihydro-, 1,1-dio	22.0799	2.8917		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KT3 Location=SW-7 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	25.0262	ug/L	J
77-71-4	2,4-Imidazolidinedione, 5,5-dimethyl-	6.4632	16.4664		JN
136-85-6	1H-Benzotriazole, 5-methyl-	8.5395	8.1983		JN
	Unknown Sydnone, 3-phenyl-	10.0159	3.0537		J
1610-18-0	Prometon	10.3159	5.2998		JN
	Unknown 2-Pyridinecarbonitrile	10.4276	3.2827		J
	Unknown 1H-Benzotriazole, 5-methyl-	11.1041	5.1547		J
1002-84-2	Pentadecanoic acid	12.004	3.9042		JN
	Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-methoxy-	12.3275	2.1424		J
	Unknown Benzaldehyde, 3-(4-fluorophenoxymethyl)-4-methox	14.8862	2.4003		J
	Unknown Xanthine, 1,3-dimethyl-8-[2-[2-methylphenyl]ethe	17.7977	4.6694		J
	Unknown Palmitic acid vinyl ester	20.3446	6.6558		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KT4 Location=SW-8 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	31.5739	ug/L	J
29878-31-7	1H-Benzotriazole, 4-methyl-	8.5395	6.7268		JN

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KT5 Location=L-9 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	2.6671	ug/L	J
	Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-methoxy-	12.3274	2.464		J
	Unknown Phthalic anhydride	17.7976	15.2228		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KT6 Location=L-10 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
85-44-9	Phthalic anhydride	7.0749	7.3448	ug/L	JN
	Unknown Benzene, 1-methyl-2-(1-methylethyl)-	7.6043	2.5839		J
98-73-7	Benzoic acid, p-tert-butyl-	8.5807	36.565		JN
13798-23-7	Sulfur	9.1395	3.3029		JN
88-19-7	Benzenesulfonamide, 2-methyl-	9.8453	2.0971		JN
70-55-3	Benzenesulfonamide, 4-methyl-	10.2041	2.1773		JN
	Unknown Adamantane-1-ethynyl	10.9923	2.0089		J
57-10-3	n-Hexadecanoic acid	12.4393	3.5016		JN
	Unknown Phthalic acid, 4-methoxyphenyl 2-methylphenyl es	21.5505	2.272		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=SBLK55 Location=No_TR_data Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
107-41-5(01)	Hexylene Glycol	3.5398	7.3619	ug/L	JN
	Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenzo[c]thie	17.8035	7.4272		J
	Unknown Octadecanoic acid, ethenyl ester	20.3622	6.7029		J
	Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	22.0856	6.875		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=SBLK94 Location=No_TR_data Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown 2-Undecen-4-ol	17.2624	35.2982	ug/L	J
	Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenzo[c]thie	18.5917	4.693		J
	Unknown Naphthalene, 1,2,3,4-tetrahydro-2-phenyl-	23.6561	3.9506		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KS7 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130719 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=SBLK95 Location=No_TR_data Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown Phthalic anhydride	18.586	16.1067	ug/L	J
	Unknown 2-Propenamide, N-[4,5-dihydro-5-oxo-2-phenyl-4-(	23.6563	16.1789		J

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 2 Sept 2011

FROM: Timothy Prendiville, Supervisor (**SR-6J**)
Superfund Contract Management Section

TO: Data User: OEPA

We have reviewed the data for the following case:

SITE NAME: Clyde Dump (OH)

CASE NUMBER: 41647 SDG NUMBER: E5KS7

Number and Type of Samples: 12 water samples

Sample Numbers: E5KS7-S9; T0-T8

Laboratory: ALS Laboratory Group Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SA-5J**

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: E5KS7

☒ ARO ☒ PEST ☒ BNA ☐ BNASIM ☐ VT ☐ VOASIM ☒ VLM

Laboratory Name: ALS Laboratory Group (SLC)

Laboratory Code: DATAC

Contract No.: EPW11037

Case No.: 41647

Analysis Price: N/A

SDG Turnaround: 21

Modified Analysis Requested: NO

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E5KS7	7) E5KT3	13)	19)
2) E5KS8	8) E5KT4	14)	20)
3) E5KS9	9) E5KT5	15)	21)
4) E5KT0	10) E5KT6	16)	22)
5) E5KT1	11) E5KT7	17)	23)
6) E5KT2	12) E5KT8	18)	24)

E5KS7

First Sample in SDG

E5KT8

Last Sample in SDG

08/09/11

First Sample Receipt Date

08/11/11

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: [signature]

Date: 8/17/2011

1122167

...ct Laboratory Program
...anic Report & Chain of Custody Record

Case No: 41647
DAS No: E5KS7

R

Region:	5	Date Shipped:	8/8/2011
Project Code:	TFA-102	Carrier Name:	FedEx
Account Code:		Airbill:	866389086520
CERCLIS ID:	OHD980905251	Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700
Spill ID:	ZZ		
Site Name/State:	Clyde Dump/OH		
Project Leader:	Victoria Sigler		
Action:	Screening Site Investigation		
Sampling Co:	Ohio EPA		

Chain of Custody Record

Sampler Signature:

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1		8/8/11 1700		8/9/11 0930
2				
3				
4				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E5KS7	Surface Water/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001388 (HCL), 5C-001389 (HCL), 5C-001390 (HCL), 5C-001391 (HCL), 5C-001392 (HCL), 5C-001393 (HCL), 5C-001394 (HCL), 5C-001395 (HCL), 5C-001396 (HCL) (9)	SW-1	S: 8/8/2011	15:00	ME5KS7	--
E5KS8	Surface Water/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001261 (HCL), 5C-001262 (HCL), 5C-001263 (HCL) (3)	SW-2	S: 8/8/2011	11:00	ME5KS8	--
E5KS9	Surface Water/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001272 (HCL), 5C-001273 (HCL), 5C-001274 (HCL) (3)	SW-3	S: 8/8/2011	13:00	ME5KS9	--
E5KT0	Surface Water/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001283 (HCL), 5C-001284 (HCL), 5C-001285 (HCL) (3)	SW-4	S: 8/8/2011	10:15	ME5KT0	--
E5KT1	Surface Water/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001294 (HCL), 5C-001295 (HCL), 5C-001296 (HCL) (3)	SW-5	S: 8/8/2011	10:25	ME5KT1	Field Duplicate
E5KT2	Surface Water/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001404 (HCL), 5C-001405 (HCL), 5C-001406 (HCL) (3)	SW-6	S: 8/8/2011	12:56	ME5KT2	--
E5KT3	Surface Water/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001415 (HCL), 5C-001416 (HCL), 5C-001417 (HCL) (3)	SW-7	S: 8/8/2011	14:05	ME5KT3	--
E5KT4	Surface Water/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001426 (HCL), 5C-001427 (HCL), 5C-001428 (HCL) (3)	SW-8	S: 8/8/2011	14:40	ME5KT4	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E5KS7	Additional Sampler Signature(s):	Chain of Custody Seal Number: 29015-29014
Analysis Key: CLP TVOA = CLP TCL Trace Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? Y

TR Number: 5-131260284-080811-0006

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No: FS187
R

Region:	5	Date Shipped:	8/8/2011
Project Code: / Account Code:	TFA-102	Carrier Name:	FedEx
CERCLIS ID:	OHD980905251	Airbill:	866389086520
Spill ID:	ZZ	Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700
Site Name/State:	Clyde Dump/OH		
Project Leader:	Victoria Sigler		
Action:	Screening Site Investigation		
Sampling Co:	Ohio EPA		

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	8/8/11 1700	[illegible]	8/9/11 936
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E5KT5	Leachate/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001437 (HCL), 5C-001438 (HCL), 5C-001439 (HCL) (3)	L-9	S: 8/8/2011	13:40	ME5KT5	--
E5KT7	Field QC/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001459 (HCL), 5C-001460 (HCL), 5C-001461 (HCL) (3)	TB-01	S: 8/4/2011	13:05		Trip Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E5KS7	Additional Sampler Signature(s):	Chain of Custody Seal Number: 29015 - 29016
Analysis Key: CLP TVOA = CLP TCL Trace Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 5-131260284-080811-0006

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No: E5 KR7

R

Region:	5	Date Shipped:	8/8/2011	Chain of Custody Record	Sampler Signature:
Project Code:	TFA-102	Carrier Name:	FedEx	Relinquished By / (Date / Time)	Received By / (Date / Time)
Account Code:		Airbill:	866389086520	1 8/8/11 1500	8/9/11 9:40
CERCLIS ID:	OHD980905251	Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2	
Spill ID:	ZZ			3	
Site Name/State:	Clyde Dump/OH			4	
Project Leader:	Victoria Sigler				
Action:	Screening Site Investigation				
Sampling Co:	Ohio EPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E5KR1	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001076 (Ice Only), 5C-001077 (Ice Only), 5C-001078 (Ice Only) (3)	SE-6	S: 8/8/2011	12:56	ME5KR1	--
E5KR2	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001080 (Ice Only), 5C-001081 (Ice Only), 5C-001082 (Ice Only) (3)	SE-7	S: 8/8/2011	14:05	ME5KR2	--
E5KT2	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001407 (Ice Only), 5C-001408 (Ice Only), 5C-001409 (Ice Only), 5C-001410 (Ice Only), 5C-001411 (Ice Only), 5C-001412 (Ice Only) (6)	SW-6	S: 8/8/2011	12:56	ME5KT2	--
E5KT3	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001418 (Ice Only), 5C-001419 (Ice Only), 5C-001420 (Ice Only), 5C-001421 (Ice Only), 5C-001422 (Ice Only), 5C-001423 (Ice Only) (6)	SW-7	S: 8/8/2011	14:05	ME5KT3	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 29009 - 29010
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? y

ARO water = CLP TCL PCB water, BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water, VOA soil = CLP TCL VOA soil

TR Number: 5-131260284-080811-0003

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EPA USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No: E5KS7
R

Region:	5	Date Shipped:	8/8/2011	Chain of Custody Record	Sampler Signature:
Project Code: / Account Code:	TFA-102	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
CERCLIS ID:	OHD980905251	Airbill:	866389086520	1 8/8/11 1445	8/9/11 1936
Spill ID:	ZZ	Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2	
Site Name/State:	Clyde Dump/OH			3	
Project Leader:	Victoria Sigler			4	
Action:	Screening Site Investigation				
Sampling Co:	Ohio EPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E5KQ7	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001059 (Ice Only), 5C-001060 (Ice Only), 5C-001061 (Ice Only) (3)	SE-2	S: 8/8/2011	11:15	ME5KQ7	--
E5KQ8	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001064 (Ice Only), 5C-001065 (Ice Only), 5C-001066 (Ice Only) (3)	SE-3	S: 8/8/2011	13:00	ME5KQ8	--
E5KS8	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001264 (Ice Only), 5C-001265 (Ice Only), 5C-001266 (Ice Only), 5C-001267 (Ice Only), 5C-001268 (Ice Only), 5C-001269 (Ice Only) (6)	SW-2	S: 8/8/2011	11:00	ME5KS8	--
E5KS9	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001275 (Ice Only), 5C-001276 (Ice Only), 5C-001277 (Ice Only), 5C-001278 (Ice Only), 5C-001279 (Ice Only), 5C-001280 (Ice Only) (6)	SW-3	S: 8/8/2011	13:00	ME5KS9	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 29005 - 29006
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? Y

ARO water = CLP TCL PCB water, BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water, VOA soil = CLP TCL VOA soil

TR Number: 5-131260284-080811-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No: E5KST

R

Region:	5	Date Shipped:	8/8/2011	Chain of Custody Record	Sampler Signature:
Project Code:	TFA-102	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	866389086520	1 8/8/11 1550	8/9/11 9:30
CERCLIS ID:	OHD980905251	Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2	
Spill ID:	ZZ			3	
Site Name/State:	Clyde Dump/OH			4	
Project Leader:	Victoria Sigler				
Action:	Screening Site Investigation				
Sampling Co:	Ohio EPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
E5KQ6	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001054 (Ice Only), 5C-001055 (Ice Only), 5C-001056 (Ice Only), 5C-001057 (Ice Only) (4)	SE-1	S: 8/8/2011 1500	ME5KQ6	--
E5KR3	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001084 (Ice Only), 5C-001085 (Ice Only), 5C-001086 (Ice Only) (3)	SE-8	S: 8/8/2011 14:40	ME5KR3	--
E5KT4	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001429 (Ice Only), 5C-001430 (Ice Only), 5C-001431 (Ice Only), 5C-001432 (Ice Only), 5C-001433 (Ice Only), 5C-001434 (Ice Only) (6)	SW-8	S: 8/8/2011 14:40	ME5KT4	--
E5KT5	Leachate/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001440 (Ice Only), 5C-001441 (Ice Only), 5C-001442 (Ice Only), 5C-001443 (Ice Only), 5C-001444 (Ice Only), 5C-001445 (Ice Only) (6)	L-9	S: 8/8/2011 13:40	ME5KT5	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E5KQ6	Additional Sampler Signature(s):	Chain of Custody Seal Number: 29011 - 29012
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? Y

ARO water = CLP TCL PCB water, BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water, VOA soil = CLP TCL VOA soil

TR Number: 5-131260284-080811-0004

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No: E5K97
R

Region:	5
Project Code:	TFA-102
Account Code:	
CERCLIS ID:	OHD980905251
Spill ID:	ZZ
Site Name/State:	Clyde Dump/OH
Project Leader:	Victoria Sigler
Action:	Screening Site Investigation
Sampling Co:	Ohio EPA

Date Shipped:	8/8/2011
Carrier Name:	FedEx
Airbill:	866389086520
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	8/8/11 1459		8/9/11 1750
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E5KQ9	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001068 (Ice Only), 5C-001069 (Ice Only), 5C-001070 (Ice Only) (3)	SE-4	S: 8/8/2011	10:30	ME5KQ9	--
E5KR0	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001072 (Ice Only), 5C-001073 (Ice Only), 5C-001074 (Ice Only) (3)	SE-5	S: 8/8/2011	10:40	ME5KR0	Field Duplicate
E5KT0	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001286 (Ice Only), 5C-001287 (Ice Only), 5C-001288 (Ice Only), 5C-001289 (Ice Only), 5C-001290 (Ice Only), 5C-001291 (Ice Only) (6)	SW-4	S: 8/8/2011	10:15	ME5KT0	--
E5KT1	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001297 (Ice Only), 5C-001298 (Ice Only), 5C-001299 (Ice Only), 5C-001300 (Ice Only), 5C-001301 (Ice Only), 5C-001401 (Ice Only) (6)	SW-5	S: 8/8/2011	10:25	ME5KT1	Field Duplicate

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 29007-29008
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? Y

ARO water = CLP TCL PCB water, BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water, VOA soil = CLP TCL VOA soil

TR Number: 5-131260284-080811-0002

REGION COPY

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W 1122348_

act Laboratory Program
ic Report & Chain of Custody Record

Case No: 41647
DAS No:
SDG No: E5KS7

L

Date Shipped:	8/9/2011
Carrier Name:	FedEx
Airbill:	866389086552
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	8/9/11 1500		08-10-11
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW11037
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
E5KS7	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001251 (Ice Only), 5C-001252 (Ice Only), 5C-001253 (Ice Only), 5C-001254 (Ice Only), 5C-001255 (Ice Only), 5C-001256 (Ice Only), 5C-001257 (Ice Only), 5C-001258 (Ice Only), 5C-001397 (Ice Only), 5C-001398 (Ice Only), 5C-001399 (Ice Only), 5C-001400 (Ice Only) (12)	SW-1	S: 8/8/2011 15:00	ME5KS7	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E5KS7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 8°	Chain of Custody Seal Number: 29019 - 29020
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? X Shipment Iced? X

ARO water = CLP TCL PCB water, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water

TR Number: 5-131260284-080911-0008

LABORATORY COPY

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W 1122352

act Laboratory Program
ic Report & Chain of Custody Record

Case No: 41647
DAS No:
SDG No: E5KS7

L

Date Shipped:	8/10/2011
Carrier Name:	FedEx
Airbill:	886389086677
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	8/10/11 1400	8/10/11	1540
2		8/11/11	1833
3			
4			

For Lab Use Only

Lab Contract No: EPW11137
Unit Price: n/a
Transfer To: 8/11/11
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
E5KT6	Leachate/ Victoria Sigler	L/G	ARO water (21), CLP TVOA (21), PEST water (21), SVOA water (21)	5C-101871 (Ice Only), 5C-101876 (Ice Only), 5C-101877 (Ice Only), 5C-101878 (Ice Only), 5C-101879 (Ice Only), 5C-101880 (Ice Only), 5C-101881 (HCL), 5C-101882 (HCL), 5C-101883 (HCL) (9)	L-10	S: 8/10/2011		ME5KT6	8/24/11
E5KT8	Field QC/ Victoria Sigler	L/G	CLP TVOA (21)	5C-001462 (HCL), 5C-001463 (HCL), 5C-001464 (HCL) (3)	TB-02	S: 8/4/2011	13:10		SDG Final Sample

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: 29027+28
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

ARO water = CLP TCL PCB water, CLP TVOA = CLP TCL Trace Volatiles, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water

TR Number: 5-131260284-081011-0001

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LABORATORY COPY

SDG Narrative
Low/Medium Volatiles

Contract: EPW11037
Case: 41647
SDG: E5KS7
Laboratory Name: ALS Environmental

Sample Number	DCL Sample ID	pH	Dilution
E5KS7	1122167001	1	
E5KS7MS	1122167002	1	
E5KS7MSD	1122167003	1	
E5KS8	1122167004	1	
E5KS9	1122167005	1	
E5KT0	1122167006	1	
E5KT1	1122167007	1	
E5KT2	1122167008	1	
E5KT3	1122167009	1	
E5KT4	1122167010	1	
E5KT5	1122167011	1	
E5KT6	1122352001	1	
E5KT7	1122167012	1	
E5KT8	1122352002	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: Agilent 5975-E GC/MSD with electron impact ionization and quadrupole detector scanning at a mass range of 35 to 300 amu.
Column: RTX-VMS - 30 meters, 0.25 mm id., 1.4 µm film
Temperature Program: 45°C (5.0 min) 15°/min ramp to 200° ;30°/min ramp to 220°C
Carrier Gas: Helium Purge Gas: Helium
Purge & Trap Device: OI Analytical-Eclipse 4660 & Varian Archon
Purge Flow: 40 mL/min Trap: OI #10 Trap Temp: 35°C Heated Purge: 40°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. 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. Manual edits were made in the calibration standards and in some samples for various mis-called 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

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 samples were performed using sample E5KS7. 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.

August 26, 2011

Matthew Goetz
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract: EP-W-11-037
Case: 41647
SDG: E5KS7
Laboratory Name: DataChem Laboratories
DCL Set ID.: 1122167, 1122352, 1122348.
Sample No.: E5KS7, E5KS7MS, E5KS7MSD, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5, E5KT6.
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 5975-D and 5975-G)
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 E5KS7.

Dilutions: None.

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	
E5KT2	Benzo(b)fluoranthene	16.62	2225	2236
SSTD020DD	Di-n-butylphthalate	12.03	1448	1472
SSTD020DD	Indeno(1,2,3-c,d)pyrene	19.73	2741	2772
SSTD020DN	Indeno(1,2,3-c,d)pyrene	19.86	2700	2726
SSTD010DN	2,4-Dinitrophenol	8.42	834	866
SSTD010DN	4-Nitrophenol	8.55	853	899
SSTD040DN	Caprolactam	6.26	459	493
SSTD040DN	4-Nitroaniline	9.30	968	1030
SSTD040DN	Indeno(1,2,3-c,d)pyrene	19.87	2762	2794
SSTD080DN	Caprolactam	6.28	466	497
SSTD080DN	4-Nitroaniline	9.30	969	1026
SSTD080DN	Indeno(1,2,3-c,d)pyrene	19.87	2767	2797
SSTD020D4	3-Nitroaniline	8.61	809	883
SSTD020D4	3,3'-Dichlorobenzidine	15.47	1974	2076
SSTD020GU	4-Nitrophenol	8.96	991	1034
SSTD080GU	Bis(2-chloroethyl)ether	4.33	208	216
SSTD080GU	Caprolactam	6.63	593	626
SSTD080GU	4-Nitrophenol	8.99	992	1026
SSTD010GU	4-Nitrophenol	8.96	993	1040
SSTD010GU	Indeno(1,2,3-c,d)pyrene	20.96	3024	3049
SSTD005GU	2,4-Dinitrophenol	8.83	971	1017
SSTD005GU	4-Nitrophenol	8.99	993	1058
SSTD005GU	4-Nitrophenol-d4	8.96	992	1059

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.

08.29.11

Seaman W. Barker August 29, 2011

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS

SDG Narrative
Pesticides

Laboratory Name: ALS/DataChem
Case: 41647
SDG: E5KS7
EPA Sample Numbers: E5KS7, E5KS7MS, E5KS7MSD, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, ETKT5 and ETKT6.
Contract Number: EP-W-11-037

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: Sample E5KT6 failed surrogate recovery criteria.

Miscellaneous Comments: None.

DataChem Laboratories, Inc.
Part of the ALS Laboratory Group
960 West LeVoy Drive, Salt Lake City, Utah 84123
Phone 801 266 7700 Fax 801 268 9992 www.datachem.com www.alsenviro.com
A Campbell Brothers Limited Company

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):

$$\text{Result ug/L} = \frac{\text{(Area response of analyte)(Extract FV uL)(Dilution Factor)(GPC factor)}}{\text{(Ave CF)(uL injected)(mL of Sample)}}$$

$$0.103 \text{ ug/L} = \frac{(10796)(10000 \text{ uL})(1)(1)}{(522000)(2 \text{ uL})(1000 \text{ mL})}$$

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08/29/11

Steven J. Sagers
Pesticide Chemist

Date

SDG Narrative
Aroclors

Laboratory Name: DataChem Laboratories
Case: 41647
SDG: E5KS7
EPA Sample Numbers: E5KS7, E5KS7MS, E5KS7MSD, E5KS8, E5KS9, E5KT0, E5KT1, E5KT2, E5KT3, E5KT4, E5KT5, and E5TK6.

Contract Number: EP-W-11-037

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 analysed within SOW specified hold times.

Dilutions: No dilutions were performed.

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 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:

	AR#####1##	AR#####2##	AR#####3##	AR#####4##	AR#####5##	AIBLK##
AR####	0.2	0.4	0.8	1.6	3.2	
Tetrachloro-m-xylene	0.01	0.02	0.04	0.08	0.16	0.04
Decachlorobiphenyl	0.02	0.04	0.08	0.16	0.32	0.08

Sample equation for individual aroclor peak AR1016-1 in ALCSW1 (1):

$$\text{Result ug/L} = \frac{\text{(Area response of analyte)(Extract FV mL)(DF)}}{\text{(Ave CF)(Liters of Sample)(uL injected)}}$$

$$0.966 \text{ ug/L} = \frac{(6267)(10 \text{ mL})(1)}{(32400)(1 \text{ L})(2 \text{ uL})}$$

The result for AR1016 in PLCSW1 (1) is the average of the three AR1016 peak results:

$$0.97 \text{ ug/L} = \frac{0.966+0.962+0.995}{3}$$

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08/30/11

Steven J. Sagers — Date
Aroclor Chemist

Meredith D. Edwards

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Wednesday, August 10, 2011 7:17 AM
To: Meredith D. Edwards; Roxanne Olson
Cc: Victoria Sigler; Carlene Thomas; Howard Pham; roberman.alida@epa.gov; Prendiville.Timothy@epamail.epa.gov; Warren Layne
Subject: Region 05 | Case 41647 | Lab DATAC | Issue Discrepancies with tags, jars, and/or TR/COC | FINAL

Roxy,

Summary Start
Issue: The TR/COC lists the analysis as TVOA; however, per scheduling samples for this Case require VOA analysis.
Resolution: In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative, perform the analyses as indicated on the Scheduling Notification Form, and proceed with the analysis of the samples. The resolution will be applied to all TR/COCs received for this Case that list an incorrect analysis.
Summary End

Let me know if you have any additional questions.
Thanks,

Please note: To waive any defect(s) associated with this issue, please contact your PO.

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: Roxanne Olson [mailto:Roxanne.Olson@ALSGlobal.com]
Sent: Tuesday, August 09, 2011 6:42 PM
To: Mroz, Ryan
Subject: RE: Region 05 | Case 41647 | Lab DATAC | Shipping information

Ryan:

We got the samples in for this case and we are getting ready to log them in. The TVOAs that you list below and which are listed on the TR are conflicting with what is scheduled. We will be logging the VOAs in for Low/Med VOAs instead of TVOAs as per the Scheduling Notification. Please give your confirmation that we have done the proper thing.

Roxy

From: Mroz, Ryan [mailto:rmroz@fedcsc.com]
Sent: Tuesday, August 09, 2011 9:08 AM
To: Meredith D. Edwards; Roxanne Olson
Subject: Region 05 | Case 41647 | Lab DATAC | Shipping information

Roxy,

Please note the shipping information for Case 41647 sent on 8/8 under airbill 866389086520 . This Case is still open. The sampler expects to send more samples later in the week.

1 Field QC CLP TCL Trace Volatiles (CLP TVOA)
1 Leachate CLP TCL PCB water (ARO water)
1 Leachate CLP TCL Pesticide water (PEST water)
1 Leachate CLP TCL Semivolatiles water (SVOA water)
1 Leachate CLP TCL Trace Volatiles (CLP TVOA)
7 Soil/Sediment CLP TCL Semivolatiles/Pesticides/PCBs (BNA/PEST)
8 Soil/Sediment CLP TCL VOA soil (VOA soil)
8 Surface Water CLP TCL PCB water (ARO water)
8 Surface Water CLP TCL Pesticide water (PEST water)
8 Surface Water CLP TCL Semivolatiles water (SVOA water)
8 Surface Water CLP TCL Trace Volatiles (CLP TVOA)

As I mentioned in my voicemail, the following samples will be shipped today (8/9) due to a leaky cooler under airbill 866389086552.
1 Surface Water CLP TCL PCB water (ARO water)
1 Surface Water CLP TCL Pesticide water (PEST water)
1 Surface Water CLP TCL Semivolatiles water (SVOA water)
1 Surface Water CLP TCL Trace Volatiles (CLP TVOA)

Please let me know if the laboratory has any questions pertaining to this particular Case or shipment. Your questions may help avoid future issues relating to the Case. This email is a summary of the analyses/samples shipped and does not replace the reporting of any TR/COC or Scheduling discrepancies.

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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****

00004

Meredith D. Edwards

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Thursday, August 11, 2011 10:43 AM
To: Meredith D. Edwards; Roxanne Olson
Cc: Victoria Sigler; Carlene Thomas; Howard Pham; roberman.alida@epa.gov; Prendiville.Timothy@epamail.epa.gov; Warren Layne
Subject: Region 05 | Case 41647 | Lab DATAC | Issue Samples received at an elevated temperature | FINAL

Roxy,

Summary Start
Issue: The laboratory received organic samples at an elevated temperature of 20 degrees C.
Resolution: Per Region 5, the laboratory shall note the elevated temperature issue in the SDG Narrative and proceed with analysis of the samples.
Summary End

Let me know if you have any additional questions.
Thanks,

Please note: To waive any defect(s) associated with this issue, please contact your PO.

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: Sigler, Victoria [mailto:victoria.sigler@epa.state.oh.us]
Sent: Thursday, August 11, 2011 12:17 PM
To: Mroz, Ryan
Subject: RE: Region 05 | Case 41647 | Lab DATAC | Issue Samples received at an elevated temperature

Yes, Please have the samples analyzed and have them note the cooler temperature in the narrative.

Thanks

From: Mroz, Ryan [mailto:rmroz@fedcsc.com]
Sent: Thursday, August 11, 2011 9:28 AM
To: Sigler, Victoria
Subject: RE: Region 05 | Case 41647 | Lab DATAC | Issue Samples received at an elevated temperature

HI Tori,

I just wanted to make sure you still wanted these sample analyzed. Region 5, has said if you don't want them run to cancel the samples, otherwise, have the lab note the temperature anomaly in the SDG Narrative and proceed with analysis.

DATAC is reporting the following Issue with Case 41647. Please advise the laboratory how to proceed.

Issue: The laboratory received organic samples at an elevated temperature of 20 degrees C. The laboratory has stated "Most likely, this cooler has sat warm for some time."

Let me know I f you have any questions.
Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

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1640 Phone conversation: Warren Layne (EPA R5) told Ryan Mroz (SMO) that if the sampler doesn't want them run to cancel the samples, otherwise, have the lab note the temperature anomaly in the SDG Narrative and proceed with analysis.
From: Mroz, Ryan
Sent: Wednesday, August 10, 2011 3:35 PM
To: 'Victoria Sigler'
Cc: 'Carlene Thomas'; 'Howard Pham'; 'roberman.alida@epa.gov'; 'Tim Prendiville (Prendiville.Timothy@epamail.epa.gov)'; 'Warren Layne'
Subject: Region 05 | Case 41647 | Lab DATAC | Issue Samples received at an elevated temperature

Tori,

DATAC is reporting the following Issue with Case 41647. Please advise the laboratory how to proceed.

Issue: The laboratory received organic samples at an elevated temperature of 20 degrees C. The laboratory has stated "Most likely, this cooler has sat warm for some time."

Let me know if you have any questions.
Thanks,

Ryan Mroz

Environmental Coordinator - Regions 5 & 8
CSC

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From: Roxanne Olson [mailto:Roxanne.Olson@ALSGlobal.com]
Sent: Wednesday, August 10, 2011 3:28 PM
To: Mroz, Ryan
Cc: Meredith D. Edwards
Subject: FW: Organic Case 41647

Ryan:

Please see Mere's comment concerning the shipment we received today for case 41647. It looks to me like the cooler was not re-iced before sending. Most likely, this cooler has sat warm for some time. We will wait to log that one in until last so in case the region opts to not analyze we will not have gone through the log in process.

Roxy

From: Meredith D. Edwards
Sent: Wednesday, August 10, 2011 1:25 PM
To: Roxanne Olson
Subject: Organic Case 41647

Please advise Region 5 that this cooler was received at 20 degrees. I think this is the one that was pulled from yesterday's shipment because of the leaky cooler. However, the TR was signed yesterday.
Thanks
Mere

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: 00000

2A - FORM II VOA-1

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E5KS7	94	105	72	79	97	100	100
02	E5KS8	98	109	73	79	99	103	101
03	E5KS9	93	107	71	78	99	103	101
04	E5KT0	94	109	71	80	100	106	102
05	E5KT1	100	114	73	78	102	105	104
06	E5KT2	94	111	68	80	99	104	102
07	E5KT3	97	109	73	80	100	105	102
08	E5KT4	97	110	74	77	101	105	101
09	E5KT5	97	113	74	78	102	105	103
10	E5KT6	97	111	75	79	100	104	103
11	E5KT7	95	109	72	77	100	105	102
12	E5KT8	95	111	71	80	102	107	102
13	E5KS7MS	94	108	96	77	97	101	102
14	E5KS7MSD	90	105	93	76	95	101	101
15	VBLKW1	95	106	75	88	99	104	102
16	VHBLKW1	102	115	75	85	106	111	106
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	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

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	E5KS7	105	103	100	81	101	103	101	0
02	E5KS8	107	103	100	80	103	103	105	0
03	E5KS9	107	102	101	79	104	104	105	0
04	E5KT0	108	103	103	79	103	104	104	0
05	E5KT1	107	102	100	80	103	105	103	0
06	E5KT2	106	100	102	82	98	106	104	0
07	E5KT3	107	103	101	79	102	104	105	0
08	E5KT4	105	103	100	76	98	103	104	0
09	E5KT5	106	102	97	78	101	101	103	0
10	E5KT6	106	104	100	78	95	104	105	0
11	E5KT7	107	102	99	75	98	103	105	0
12	E5KT8	108	100	101	80	100	105	106	0
13	E5KS7MS	105	104	101	82	99	103	104	0
14	E5KS7MSD	105	104	102	78	95	101	103	0
15	VBLKW1	106	104	100	84	101	105	105	0
16	VHBLKW1	111	103	100	84	104	106	109	0
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		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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix Spike - EPA Sample No.: E5KS7 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	45.	91	61-145
Trichloroethene	50.	0.0	47.	94	71-120
Benzene	50.	0.0	48.	97	76-127
Toluene	50.	0.0	48.	96	76-125
Chlorobenzene	50.	0.0	49.	98	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	50.	43.	86	6	0-14	61-145
Trichloroethene	50.	44.	89	5	0-14	71-120
Benzene	50.	46.	93	4	0-11	76-127
Toluene	50.	47.	94	3	0-13	76-125
Chlorobenzene	50.	48.	95	2	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab File ID: EK41BLK Lab Sample ID: 233838

Instrument ID: 5975-E

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 08/17/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:26

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E5KS7	1122167001	EK42EKS7	12:55
02	E5KS7MS	1122167002	EK43EMS7	13:23
03	E5KS7MSD	1122167003	EK44ESS7	13:51
04	E5KS8	1122167004	EK45EKS8	14:18
05	E5KS9	1122167005	EK46EKS9	14:46
06	E5KT0	1122167006	EK47EKT0	15:13
07	E5KT1	1122167007	EK48EKT1	15:41
08	E5KT2	1122167008	EK49EKT2	16:08
09	E5KT3	1122167009	EK50EKT3	16:36
10	E5KT4	1122167010	EK51EKT4	17:04
11	E5KT5	1122167011	EK52EKT5	17:31
12	E5KT7	1122167012	EK53EKT7	17:59
13	E5KT6	1122352001	EK54EKT6	18:26
14	E5KT8	1122352002	EK55EKT8	18:54
15	VHBLKW1	233839	EK56HBLK	19:21
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COMMENTS: _____

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 07/01/2011 07/01/2011

EPA Sample No.(VSTD#####): VSTD050W1 Date Analyzed: 08/17/2011

Lab File ID (Standard): EK40S50 Time Analyzed: 11:55

Instrument ID: 5975-E Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1033680	10.64	1124021	7.44	532025	13.03
	UPPER LIMIT	2067360	11.14	2248042	7.94	1064050	13.53
	LOWER LIMIT	516840	10.14	562011	6.94	266013	12.53
	EPA SAMPLE NO.						
01	VBLKW1	975922	10.64	1046438	7.44	494349	13.03
02	E5KS7	1011338	10.64	1075410	7.44	508016	13.03
03	E5KS7MS	974336	10.64	1059876	7.44	491660	13.03
04	E5KS7MSD	1003409	10.64	1087998	7.44	505138	13.03
05	E5KS8	955727	10.64	1018702	7.44	481660	13.03
06	E5KS9	966749	10.64	1027026	7.44	483548	13.04
07	E5KT0	943220	10.64	999806	7.44	471166	13.03
08	E5KT1	911712	10.64	973545	7.44	476338	13.03
09	E5KT2	939987	10.64	1006533	7.44	478790	13.03
10	E5KT3	917744	10.64	968869	7.44	462595	13.03
11	E5KT4	917272	10.64	960573	7.44	458864	13.03
12	E5KT5	900503	10.64	949125	7.44	443922	13.03
13	E5KT7	911164	10.64	967683	7.44	448409	13.04
14	E5KT6	910069	10.64	970733	7.44	447147	13.03
15	E5KT8	933158	10.64	978496	7.44	464092	13.03
16	VHBLKW1	843321	10.64	900933	7.44	405517	13.04
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 contract required QC limits with an asterisk.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK42EKS7

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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
B 67-64-1	Acetone	20 ~~1.8~~	~~J~~ 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

DRC 9-13-11

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK42EKS7

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KS7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK42EKS7

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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					
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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.

E5KS7MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK43EMS7

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	45.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	20 ~~2.1~~	~~J~~ 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	48.	
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

TB

DRC 9-13-11

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK43EMS7

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	47.	
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	48.	
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	49.	
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.

E5KS7MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK44ESS7

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	43.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
TB 67-64-1	Acetone	20 ~~2.2~~	~~J~~ U DRC 9-13-1
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	46.	
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.

E5KS7MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK44ESS7

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	44.	
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	47.	
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	48.	
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.

E5KS8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK45EKS8

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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
TB 67-64-1	Acetone	20 ~~3.7~~	~~J~~ LI DRC 9-13-11
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.

E5KS8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK45EKS8

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	0.11	J
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.

E5KS8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK45EKS8

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KS9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK46EKS9

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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
18 67-64-1	Acetone	20 ~~4.1~~	~~J~~ U DRC 9-13-11
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.

E5KS9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK46EKS9

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KS9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK46EKS9

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK47EKT0

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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
TB 67-64-1	Acetone	20 ~~3.6~~	~~J~~ LI DRC 9-13-11
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.

E5KT0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK47EKT0

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	0.16	J
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.

E5KT0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK47EKT0

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167007

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK48EKT1

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	20 ~~4.0~~	~~J~~ 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

IB

DRC 9-13-11

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167007

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK48EKT1

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	0.18	J
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.

E5KT1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167007

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK48EKT1

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167008

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK49EKT2

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	20 ~~4.8~~	~~J~~ 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

DRC 9-13-11

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167008

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK49EKT2

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167008

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK49EKT2

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167009

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK50EKT3

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	20 ~~4.0~~	~~J~~ 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

DRC 9-13-11

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167009

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK50EKT3

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167009

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK50EKT3

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167010

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK51EKT4

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	20 ~~4.9~~	~~J~~ 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

TB

DRC 9-13-11

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167010

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK51EKT4

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167010

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK51EKT4

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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					
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11					
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13					
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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.

E5KT5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167011

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK52EKT5

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	20 ~~6.1~~	~~J~~ 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

B

DRC 9-13-11

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167011

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK52EKT5

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167011

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK52EKT5

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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					
.0					
.1					
.2					
.3					
.4					
.5					
.6					
.7					
.8					
.9					
0					
1					
2					
3					
4					
5					
6					
7					
8					
9					
0					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK54EKT6

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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
TB 67-64-1	Acetone	20 ~~3.8~~	~~J~~ U DRC 9-13-11
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.

E5KT6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK54EKT6

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK54EKT6

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167012

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK53EKT7

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	6.4	J
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.

E5KT7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167012

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK53EKT7

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167012

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK53EKT7

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK55EKT8

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	5.6	J
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.

E5KT8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK55EKT8

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

E5KT8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK55EKT8

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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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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.

VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 233838

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK41BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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	0.41	J
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.

VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 233838

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK41BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 233838

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK41BLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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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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.

VHBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 233839

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK56HBLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

VHBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 233839

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK56HBLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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.

VHBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 233839

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EK56HBLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/17/2011

GC Column: RTX-VMS ID: 0.25 (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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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.

2G - FORM II SV-1
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	E5KS7	77	73	75	81	73	76	70	29
02	E5KS8	56	56	58	72	60	65	64	6
03	E5KS9	63	59	64	77	65	70	70	14
04	E5KT0	63	61	63	76	64	65	68	18
05	E5KT1	57	56	58	71	60	64	62	9
06	E5KT2	59	55	59	74	61	66	66	5
07	E5KT3	65	66	68	79	71	74	71	5
08	E5KT4	61	60	63	74	65	69	67	8
09	E5KT5	66	64	68	77	69	73	70	1 ≠
10	E5KT6	77	68	71	88	69	73	71	0 *
11	E5KS7MS	71	61	65	76	66	70	65	24
12	E5KS7MSD	53	46	49	57	49	52	50	21
13	SBLK55	74	76	77	87	76	79	75	47
14	SBLK94	67	63	64	75	62	64	59	36
15	SBLK95	66	61	63	74	63	65	61	56
16									
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23									
24									
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26									
27									
28									
29									
30									

ACH 9-21-11

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(39-106)
SDMC2 (BCE) = Bis(2-chloroethyl)ether-d8	(40-105)
SDMC3 (2CP) = 2-Chlorophenol-d4	(41-106)
SDMC4 (4MP) = 4-Methylphenol-d8	(25-111)
SDMC5 (NBZ) = Nitrobenzene-d5	(43-108)
SDMC6 (2NP) = 2-Nitrophenol-d4	(40-108)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(37-105)
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

2H - FORM II SV-2
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	E5KS7	79	76	60	76	70	73	83	58	0
02	E5KS8	79	71	64	74	85	68	83	54	0
03	E5KS9	85	75	73	81	95	76	89	72	0
04	E5KT0	81	71	63	76	86	70	87	68	0
05	E5KT1	75	66	57	69	80	64	75	50	0
06	E5KT2	78	67	67	69	91	62	66	44	0
07	E5KT3	82	73	63	77	94	65	83	52	0
08	E5KT4	78	70	63	73	85	68	81	54	0
09	E5KT5	79	66	77	74	94	50	74	55	1
10	E5KT6	78	63	72	64	79	44	33 *	13 *	3
11	E5KS7MS	79	75	68	76	72	73	85	66	0
12	E5KS7MSD	63	58	63	60	63	61	70	54	0
13	SBLK55	92	85	70	85	88	88	97	86	0
14	SBLK94	69	65	52	66	58	67	76	67	0
15	SBLK95	73	70	56	70	60	70	79	67	0
16										
17										
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	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(47-114)
SDMC10 (ACY) = Acenaphthylene-d8	(41-107)
SDMC11 (4NP) = 4-Nitrophenol-d4	(33-116)
SDMC12 (FLR) = Fluorene-d10	(42-111)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(22-104)
SDMC14 (ANC) = Anthracene-d10	(44-110)
SDMC15 (PYR) = Pyrene-d10	(52-119)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(32-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

3C - FORM III SV-1
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix Spike - EPA Sample No.: E5KS7

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC LIMITS REC.
Phenol	40.	0.0	27.	68	12-110
2-Chlorophenol	40.	0.0	25.	62	27-123
N-Nitroso-di-n-propylamine	40.	0.0	33.	82	41-116
4-Chloro-3-methylphenol	40.	0.0	29.	73	23-97
Acenaphthene	40.	0.0	31.	76	46-118
4-Nitrophenol	40.	0.0	27.	68	10-80
2,4-Dinitrotoluene	40.	0.0	30.	76	24-96
Pentachlorophenol	40.	0.0	33.	82	9-103
Pyrene	40.	0.0	36.	90	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
Phenol	40.	20.	51	28	0-42	12-110
2-Chlorophenol	40.	19.	47	28	0-40	27-123
N-Nitroso-di-n-propylamine	40.	24.	61	29	0-38	41-116
4-Chloro-3-methylphenol	40.	23.	59	22	0-42	23-97
Acenaphthene	40.	24.	59	26	0-31	46-118
4-Nitrophenol	40.	27.	66	3	0-50	10-80
2,4-Dinitrotoluene	40.	25.	63	19	0-38	24-96
Pentachlorophenol	40.	28.	71	15	0-50	9-103
Pyrene	40.	29.	73	21	0-31	26-127

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: 0 out of 18 outside limits

COMMENTS: _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK55

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KS7

Lab File ID: DLD02BLK Lab Sample ID: 232055

Instrument ID: 5975-D Date Extracted: 08/10/2011

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 08/12/2011

Level: (LOW/MED) LOW Time Analyzed: 09:49

Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E5KS8	1122167004	DLD03C04	08/12/2011
02	E5KS9	1122167005	DLD04C05	08/12/2011
03	E5KT0	1122167006	DLD05C06	08/12/2011
04	E5KT1	1122167007	DLD06C07	08/12/2011
05	E5KT2	1122167008	DLD07C08	08/12/2011
06	E5KT3	1122167009	DLD08C09	08/12/2011
07	E5KT4	1122167010	DLD09C10	08/12/2011
08	E5KT5	1122167011	DLD10C11	08/12/2011
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COMMENTS:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab File ID: GCD08BLK Lab Sample ID: 232494

Instrument ID: 5975-G Date Extracted: 08/12/2011

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 08/16/2011

Level: (LOW/MED) LOW Time Analyzed: 14:37

Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E5KS7	1122348001	GCD09C01	08/16/2011
02	E5KS7MS	1122348002	GCD10M02	08/16/2011
03	E5KS7MSD	1122348003	GCD11M03	08/16/2011
04				
05				
06				
07				
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COMMENTS:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KS7

Lab File ID: GCD06BLK Lab Sample ID: 232495

Instrument ID: 5975-G Date Extracted: 08/12/2011

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 08/16/2011

Level: (LOW/MED) LOW Time Analyzed: 13:58

Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E5KT6	1122352001	GCD13C01	08/16/2011
02				
03				
04				
05				
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08				
09				
10				
11				
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COMMENTS:

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 07/12/2011 07/12/2011

EPA Sample No.(SSTD020##): SSTD020DD Date Analyzed: 08/12/2011

Lab File ID (Standard): DLD01S20 Time Analyzed: 09:18

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	87799	4.29	296044	5.66	180546	8.25
	UPPER LIMIT	175598	4.79	592088	6.16	361092	8.75
	LOWER LIMIT	43900	3.79	148022	5.16	90273	7.75
	EPA SAMPLE NO.						
01	SBLK55	78711	4.29	285568	5.66	175642	8.25
02	E5KS8	93598	4.29	329464	5.65	199018	8.24
03	E5KS9	89494	4.29	315060	5.65	189491	8.24
04	E5KT0	79432	4.29	284425	5.65	175110	8.24
05	E5KT1	95187	4.29	339368	5.65	208093	8.24
06	E5KT2	107366	4.29	381490	5.65	230069	8.24
07	E5KT3	86944	4.29	305649	5.65	184886	8.24
08	E5KT4	91758	4.29	319228	5.65	194676	8.24
09	E5KT5	100924	4.29	355972	5.65	220827	8.24
10							
11							
12							
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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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KS7

EPA Sample No.(SSTD020##): SSTD020DD Date Analyzed: 08/12/2011

Lab File ID (Standard): DLD01S20 Time Analyzed: 09:18

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	312378	10.86	303256	15.12	250734	17.30
	UPPER LIMIT	624756	11.36	606512	15.62	501468	17.80
	LOWER LIMIT	156189	10.36	151628	14.62	125367	16.80
	EPA SAMPLE NO.						
01	SBLK55	291091	10.85	285151	15.11	218862	17.29
02	E5KS8	332699	10.85	301577	15.10	230131	17.29
03	E5KS9	322442	10.85	312394	15.10	232720	17.29
04	E5KT0	288774	10.85	272703	15.10	206552	17.29
05	E5KT1	344592	10.85	330971	15.10	257448	17.29
06	E5KT2	382431	10.85	359909	15.10	262857	17.29
07	E5KT3	306959	10.85	275456	15.10	208848	17.29
08	E5KT4	328700	10.85	299146	15.10	221538	17.29
09	E5KT5	389097	10.85	399329	15.10	298257	17.29
10							
11							
12							
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 contract required QC limits with an asterisk.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KS7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 07/21/2011 07/21/2011

EPA Sample No.(SSTD020##): SSTD020GD Date Analyzed: 08/16/2011

Lab File ID (Standard): GCD03S20 Time Analyzed: 12:17

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	172514	4.56	597934	5.99	336529	8.66
	UPPER LIMIT	345028	5.06	1195868	6.49	673058	9.16
	LOWER LIMIT	86257	4.06	298967	5.49	168265	8.16
	EPA SAMPLE NO.						
01	SBLK95	173791	4.56	608619	5.99	341665	8.66
02	SBLK94	199208	4.56	687433	6.00	392185	8.66
03	E5KS7	198402	4.56	684603	5.99	388727	8.66
04	E5KS7MS	185647	4.56	641001	5.99	360709	8.66
05	E5KS7MSD	202333	4.56	698037	5.99	396149	8.66
06	E5KT6	176338	4.56	599123	5.99	336822	8.66
07							
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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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KS7

EPA Sample No.(SSTD020##): SSTD020GD Date Analyzed: 08/16/2011

Lab File ID (Standard): GCD03S20 Time Analyzed: 12:17

Instrument ID: 5975-G GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	588889	11.31	616879	15.50	420410	18.01
	UPPER LIMIT	1177778	11.81	1233758	16.00	840820	18.51
	LOWER LIMIT	294445	10.81	308440	15.00	210205	17.51
	EPA SAMPLE NO.						
01	SBLK95	594177	11.31	636876	15.50	490187	18.01
02	SBLK94	675596	11.32	719077	15.51	513646	18.02
03	E5KS7	685308	11.31	724173	15.50	560617	18.01
04	E5KS7MS	636525	11.31	675835	15.50	519214	18.01
05	E5KS7MSD	700408	11.31	753408	15.50	569318	18.01
06	E5KT6	583229	11.32	583226	15.51	423092	18.02
07							
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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 contract required QC limits with an asterisk.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD09C01

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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 ~~0.28~~	~~JB~~ 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	0.65	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	5.0	U
91-57-6	2-Methylnaphthalene	0.16	J
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 9-15-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD09C01

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	0.66	J
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

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD09C01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	1610-18-0	Prometon	10.73	2.6	JN
02	301-02-0	9-Octadecenamide, (Z)-	14.81	2.8	JN
03		~~Unknown N,N'-Bis(2-hydroxy-alpha-methylbenzyl)-~~	~~18.59~~	~~6.1~~	~~J~~ U
04		~~Unknown Phthalic anhydride~~	~~23.64~~	~~5.7~~	~~J~~ U
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		

DRC 9-15-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD10M02

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 08/10/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 08/16/2011

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	27.	
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	25.	
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	33.	
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	29.	
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	31.	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD10M02

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	27.	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	30.	
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	0.65	J
87-86-5	Pentachlorophenol	33.	
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	36.	
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	0.40	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	0.35	J

[1] Cannot be separated from Diphenylamine

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD11M03

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	20.	
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	19.	
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	24.	
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	23.	
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	24.	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD11M03

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	27.	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	25.	
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	0.55	J
87-86-5	Pentachlorophenol	28.	
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	29.	
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	0.26	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	0.28	J

[1] Cannot be separated from Diphenylamine

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167004

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD03C04

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 ~~0.34~~	~~JB~~ 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

DRC 9-13-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167004

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD03C04

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	0.38	J
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 ~~0.30~~ ~~JB~~ U	DRC 9-13-11
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	25 ~~0.57~~ ~~JB~~ 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.

E5KS8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167004

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD03C04

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	~~107-41-5~~	~~Hexylene Glycol~~	~~3.54~~	~~11.~~	~~JNB~~ U
02	29878-31-7	1H-Benzotriazole, 4-methyl-	8.54	6.6	JN
03	57-10-3	n-Hexadecanoic acid	12.00	4.0	JN
04		~~Unknown D-Homoestra-1,3,5(10),15-tetraen-17a-one~~	~~17.80~~	~~9.5~~	~~J~~ U
05		Unknown 16-Hexadecanoyl hydrazide	20.35	4.6	J
06		~~Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate~~	~~22.07~~	~~8.4~~	~~JB~~ U
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	41.	J

DRC 9-13-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD04C05

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 ~~0.45~~	~~JB~~ 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 ~~0.20~~	~~JB~~ 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

DRC 9-13-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD04C05

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	0.43	J
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 ~~0.26~~	~~JB~~ 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	25 ~~0.43~~	~~JB~~ 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 9-13-11

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD04C05

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	~~107-41-5~~	~~Hexylene Glycol~~	~~3.54~~	~~12.~~	~~JNB~~ U
02	136-85-6	1H-Benzotriazole, 5-methyl-	8.55	7.9	JN
03	1610-18-0	Prometon	10.33	2.0	JN
04	57-10-3	n-Hexadecanoic acid	12.00	2.0	JN
05		Unknown 3-Methoxy-D-homoestra-1,3,5(10),8-tetrae	17.80	3.2	J
06		Unknown Palmitic acid vinyl ester	20.35	4.3	J
07		~~Unknown [2.2]Paracyclophane~~	~~22.07~~	~~2.8~~	~~J~~ U
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	32.	J

DRC 9-13-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD05C06

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 ~~0.50~~	~~JB~~ 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 ~~0.16~~	~~JB~~ 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	0.24	J
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 9-13-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD05C06

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	0.47	J
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 ~~0.29~~	~~JB~~ 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	25 ~~0.24~~	~~JB~~ 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.

E5KT0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD05C06

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	~~107-41-5~~	~~Hexylene Glycol~~	~~3.54~~	~~11.~~	~~JNB~~ U
02	136-85-6	1H-Benzotriazole, 5-methyl-	8.54	7.0	JN
03		~~Unknown Dithianone~~	~~17.80~~	~~3.0~~	~~J~~ U
04		~~Unknown Octadecanoic acid, ethenyl ester~~	~~20.34~~	~~5.6~~	~~JB~~ U
05		Unknown 2-[4-Chlorophenyl]-6-chloro-8-trifluorom	22.07	2.4	J
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	26.	J

DRC 9-13-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD06C07

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 ~~0.41~~	~~JB~~ 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 ~~0.17~~	~~JB~~ 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	0.20	J
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 9-13-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD06C07

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	0.46	J
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 ~~0.28~~ ~~JB~~ 4	
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 9-13-11

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KT1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD06C07

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	~~107-41-5~~	~~Hexylene Glycol~~	~~3.54~~	~~13.~~	~~JNB~~ U
02	29878-31-7	1H-Benzotriazole, 4-methyl-	8.54	6.1	JN
03		Unknown Phthalic acid, bis(7-methyloctyl) ester	15.03	2.1	J
04		~~Unknown N,N'-Bis(2-hydroxy-alpha-methylbenzylide~~	~~17.80~~	~~2.2~~	~~J~~ U
05		Unknown Palmitic acid vinyl ester	20.35	4.5	J
06		Unknown b-Homomorphinan-7-one,5,6,8,14-tetradehy	22.07	2.1	J
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	24.	J

DRC 9-13-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD07C08

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 ~~0.54~~	~~JB~~ U DRC 9-13-1
108-95-2	Phenol	0.18	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 ~~0.20~~	~~JB~~ 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	0.25	J
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.

E5KT2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD07C08

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	0.34	J
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	0.20	J
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0 ~~0.21~~	~~JB~~ U
206-44-0	Fluoranthene	0.38	J
129-00-0	Pyrene	0.33	J
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0 ~~0.18~~	~~JB~~ U
218-01-9	Chrysene	5.0 ~~0.18~~	~~JB~~ U
117-81-7	Bis(2-ethylhexyl)phthalate	25 ~~0.64~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0 ~~0.25~~	~~JB~~ U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0 ~~0.18~~	~~JB~~ 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 ~~0.17~~	~~JB~~ U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

DKC 9-13-11

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KT2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD07C08

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 Hexylene Glycol~~	~~3.54~~	~~6.5~~	~~JB~~ U
02		Unknown 3-Cyclohexyl-1-propyne	6.08	27.	J
03	136-85-6	1H-Benzotriazole, 5-methyl-	8.55	5.6	JN
04		~~Unknown Phthalic anhydride~~	~~17.80~~	~~2.9~~	~~J~~ U
05		Unknown Palmitic acid vinyl ester	20.35	5.7	J
06		Unknown 4H-1-Benzothiopyran-4-one, 2,3-dihydro-,	22.08	2.9	J
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		

DRC 9-13-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167009

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD08C09

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 ~~0.35~~	~~JB~~ U
108-95-2	Phenol	0.17	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 ~~0.20~~	~~JB~~ 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	0.76	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	0.24	J
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 9-13-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167009

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD08C09

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	0.18	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	0.73	J
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 ~~0.33~~	~~JB~~ U
206-44-0	Fluoranthene	0.15	J
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 9-13-11

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KT3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167009

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD08C09

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	~~107-41-5~~	~~Hexylene Glycol~~	~~3.54~~	~~7.5~~	~~JNB~~ U
02	77-71-4	2,4-Imidazolidinedione, 5,5-dimethyl-	6.46	16.	JN
03	136-85-6	1H-Benzotriazole, 5-methyl-	8.54	8.2	JN
04		Unknown Sydnone, 3-phenyl-	10.02	3.1	J
05	1610-18-0	Prometon	10.32	5.3	JN
06		Unknown 2-Pyridinecarbonitrile	10.43	3.3	J
07		Unknown 1H-Benzotriazole, 5-methyl-	11.10	5.2	J
08	1002-84-2	Pentadecanoic acid	12.00	3.9	JN
09		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	12.33	2.1	J
10		Unknown Benzaldehyde, 3-(4-fluorophenoxymethyl)-	14.89	2.4	J
11		Unknown Xanthine, 1,3-dimethyl-8-[2-[2-methylphe	17.80	4.7	J
12		Unknown Palmitic acid vinyl ester	20.34	6.7	J
13		~~Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate~~	~~22.07~~	~~3.8~~	~~JB~~ U
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	25.	J

DRC 9-13-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167010

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD09C10

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 ~~0.34~~	~~JB~~ 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

DRC 9-13-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167010

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD09C10

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	0.38	J
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 ~~0.23~~ ~~JB~~ U	DRC 9-13-11
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.

E5KT4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167010

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD09C10

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 Oxetane, 2,2,4-trimethyl-~~	~~3.54~~	~~3.0~~	~~J~~ U
02	29878-31-7	1H-Benzotriazole, 4-methyl-	8.54	6.7	JN
03		~~Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz~~	~~17.80~~	~~19.~~	~~JB~~ U
04		~~Unknown Phthalic anhydride~~	~~22.08~~	~~25.~~	~~J~~ U
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	32.	J

DRC 9-13-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD10C11

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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.

E5KT5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD10C11

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	50 ~~0.19~~	~~JB~~ U DRC 9-13-11
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	25 ~~0.30~~	~~JB~~ 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.

E5KT5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD10C11

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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 Hexylene Glycol~~	~~3.54~~	~~5.3~~	~~JB~~ U DRC 9-13-11
02		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	12.33	2.5	J
03		Unknown Phthalic anhydride	17.80	15.	J
04		~~Unknown Phthalic anhydride~~	~~22.09~~	~~19.~~	~~J~~ U
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	2.7	J

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD13C01

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/11/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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 ~~0.93~~	~~JB~~ U
108-95-2	Phenol	0.29	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	0.23	J
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	0.36	J
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	0.26	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	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 9-15

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD13C01

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/11/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	0.85	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	25 ~~0.31~~	~~JB~~ U DRC 9-15-11
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	0.25	J
207-08-9	Benzo(k)fluoranthene	0.24	J
50-32-8	Benzo(a)pyrene	0.30	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.28	J
53-70-3	Dibenzo(a,h)anthracene	0.26	J
191-24-2	Benzo(g,h,i)perylene	0.27	J
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.

E5KT6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD13C01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/11/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	85-44-9	Phthalic anhydride	7.07	7.3	JN
02		Unknown Benzene, 1-methyl-2-(1-methylethyl)-	7.60	2.6	J
03	98-73-7	Benzoic acid, p-tert-butyl-	8.58	37.	JN
04	13798-23-7	Sulfur	9.14	3.3	JN
05	88-19-7	Benzenesulfonamide, 2-methyl-	9.85	2.1	JN
06	70-55-3	Benzenesulfonamide, 4-methyl-	10.20	2.2	JN
07		Unknown Adamantane-1-ethynyl	10.99	2.0	J
08	57-10-3	n-Hexadecanoic acid	12.44	3.5	JN
09		~~Unknown Phthalic anhydride~~	~~18.62~~	~~21.~~	~~JB~~ U
10		Unknown Phthalic acid, 4-methoxyphenyl 2-methylp	21.55	2.3	J
11		~~Unknown Phthalic anhydride~~	~~23.69~~	~~20.~~	~~J~~ U
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		

DRC 9-15-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK55

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232055

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD02BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	0.43	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	0.16	J
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.

SBLK55

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232055

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD02BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	0.36	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	0.18	J
91-94-1	3,3'-Dichlorobenzidine	0.30	J
56-55-3	Benzo(a)anthracene	0.40	J
218-01-9	Chrysene	0.35	J
117-81-7	Bis(2-ethylhexyl)phthalate	0.61	J
117-84-0	Di-n-octylphthalate	0.23	J
205-99-2	Benzo(b)fluoranthene	0.28	J
207-08-9	Benzo(k)fluoranthene	0.37	J
50-32-8	Benzo(a)pyrene	0.40	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.20	J
53-70-3	Dibenzo(a,h)anthracene	0.19	J
191-24-2	Benzo(g,h,i)perylene	0.19	J
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.

SBLK55

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232055

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DLD02BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/12/2011

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	107-41-5	Hexylene Glycol	3.54	7.4	JN
02		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	17.80	7.4	J
03		Unknown Octadecanoic acid, ethenyl ester	20.36	6.7	J
04		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	22.09	6.9	J
05					
06					
07					
08					
09					
10					
11					
12					
13					
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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.

SBLK94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232494

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD08BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	0.18	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	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.

SBLK94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232494

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD08BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	0.16	J
191-24-2	Benzo(g,h,i)perylene	0.18	J
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.

SBLK94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232494

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD08BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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 2-Undecen-4-ol	17.26	35.	J
02		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	18.59	4.7	J
03		Unknown Naphthalene, 1,2,3,4-tetrahydro-2-phenyl	23.66	4.0	J
04					
05					
06					
07					
08					
09					
10					
11					
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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.

SBLK95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232495

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD06BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	0.19	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	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.

SBLK95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232495

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD06BLK

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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	0.22	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

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232495

Sample wt/vol: 1000 (g/mL) mL Lab File ID: GCD06BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 08/12/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 08/16/2011

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 Phthalic anhydride	18.59	16.	J
02		Unknown 2-Propenamide, N-[4,5-dihydro-5-oxo-2-ph	23.66	16.	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.

2N - FORM II PEST-1
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

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	84	92	78	86			0
02	PBLKW2	67	73	78	85			0
03	PBLKW3	79	89	81	81			0
04	PLCSW1	79	78	77	76			0
05	PLCSW2	66	72	77	81			0
06	PLCSW3	85	85	86	89			0
07	E5KS7	66	68	67	69			0
08	E5KS8	73	68	63	59			0
09	E5KS9	86	85	62	61			0
10	E5KT0	78	78	55	58			0
11	E5KT1	67	69	45	47			0
12	E5KT2	53	57	35	33			0
13	E5KT3	67	69	36	38			0
14	E5KT4	68	74	32	33			0
15	E5KT5	71	79	38	41			0
16	E5KT6	26 *	27 *	13 *	14 *			4
17	E5KS7MS	66	76	71	67			0
18	E5KS7MSD	78	85	67	73			0
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

3G- FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix Spike - EPA Sample No.: E5KS7

Instrument ID: GCE21 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	0.0072	0.54	107	56-123
Heptachlor	0.50	0.0031	0.47	94	40-131
Aldrin	0.50	0	0.52	104	40-120
Dieldrin	1.0	0	1.1	106	52-126
Endrin	1.0	0	1.0	102	56-121
4,4'-DDT	1.0	0.00092	0.99	99	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	0.50	0.54	106	2	0-15	56-123
Heptachlor	0.50	0.48	94	0	0-20	40-131
Aldrin	0.50	0.53	106	2	0-22	40-120
Dieldrin	1.0	1.0	101	5	0-18	52-126
Endrin	1.0	1.0	101	1	0-21	56-121
4,4'-DDT	1.0	0.92	92	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: _____

3G- FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix Spike - EPA Sample No.: E5KS7

Instrument ID: GCE21 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	0.012	0.62	121	56-123
Heptachlor	0.50	0	0.51	102	40-131
Aldrin	0.50	0	0.56	113	40-120
Dieldrin	1.0	0.0022	1.1	111	52-126
Endrin	1.0	0	1.2	117	56-121
4,4'-DDT	1.0	0	1.0	101	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	0.50	0.58	114	6	0-15	56-123
Heptachlor	0.50	0.52	103	1	0-20	40-131
Aldrin	0.50	0.55	110	3	0-22	40-120
Dieldrin	1.0	1.1	108	3	0-18	52-126
Endrin	1.0	1.1	113	3	0-21	56-121
4,4'-DDT	1.0	1.0	102	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: 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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab Sample ID: 232151 LCS Lot No.: _____

Date Extracted: 08/10/2011 Date Analyzed (1): 08/26/2011

Instrument ID (1): GCE21 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	0.044	89	50-120
Heptachlor epoxide	0.050	0.049	98	50-150
Dieldrin	0.10	0.094	94	30-130
4,4'-DDE	0.10	0.089	89	50-150
Endrin	0.10	0.10	103	50-120
Endosulfan sulfate	0.10	0.12	118	50-120
gamma-Chlordane	0.050	0.048	97	30-130

Instrument ID (2): GCE21 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/26/2011

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.044	87	50-120
Heptachlor epoxide	0.050	0.047	94	50-150
Dieldrin	0.10	0.086	86	30-130
4,4'-DDE	0.10	0.094	94	50-150
Endrin	0.10	0.11	108	50-120
Endosulfan sulfate	0.10	0.088	88	50-120
gamma-Chlordane	0.050	0.046	92	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: _____

3L - FORM III PEST-3

WATER PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSW2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab Sample ID: 232777 LCS Lot No.: _____

Date Extracted: 08/15/2011 Date Analyzed (1): 08/26/2011

Instrument ID (1): GCE21 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	0.042	84	50-120
Heptachlor epoxide	0.050	0.047	93	50-150
Dieldrin	0.10	0.10	100	30-130
4,4'-DDE	0.10	0.089	89	50-150
Endrin	0.10	0.10	100	50-120
Endosulfan sulfate	0.10	0.080	80	50-120
gamma-Chlordane	0.050	0.052	103	30-130

Instrument ID (2): GCE21 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/26/2011

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.047	94	50-120
Heptachlor epoxide	0.050	0.052	105	50-150
Dieldrin	0.10	0.093	93	30-130
4,4'-DDE	0.10	0.093	93	50-150
Endrin	0.10	0.10	104	50-120
Endosulfan sulfate	0.10	0.090	90	50-120
gamma-Chlordane	0.050	0.052	104	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: _____

3L - FORM III PEST-3
WATER PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSW3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab Sample ID: 232792 LCS Lot No.: _____

Date Extracted: 08/16/2011 Date Analyzed (1): 08/28/2011

Instrument ID (1): GCE21 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	0.044	88	50-120
Heptachlor epoxide	0.050	0.050	100	50-150
Dieldrin	0.10	0.098	98	30-130
4,4'-DDE	0.10	0.087	87	50-150
Endrin	0.10	0.10	103	50-120
Endosulfan sulfate	0.10	0.11	107	50-120
gamma-Chlordane	0.050	0.049	99	30-130

Instrument ID (2): GCE21 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/28/2011

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.044	88	50-120
Heptachlor epoxide	0.050	0.049	98	50-150
Dieldrin	0.10	0.092	92	30-130
4,4'-DDE	0.10	0.095	95	50-150
Endrin	0.10	0.11	112	50-120
Endosulfan sulfate	0.10	0.10	103	50-120
gamma-Chlordane	0.050	0.049	97	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab File ID: 21110824A046,21110824B046 Lab Sample ID: 232152

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 08/10/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N

Date Analyzed (1): 08/26/2011 Date Analyzed (2): 08/26/2011

Time Analyzed (1): 12:55 Time Analyzed (2): 13:27

Instrument ID (1): GCE21 Instrument ID (2): GCE21

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	232151	08/26/2011	08/26/2011
02	E5KS8	1122167004	08/26/2011	08/26/2011
03	E5KS9	1122167005	08/26/2011	08/26/2011
04	E5KT0	1122167006	08/26/2011	08/26/2011
05	E5KT1	1122167007	08/26/2011	08/26/2011
06	E5KT2	1122167008	08/26/2011	08/26/2011
07	E5KT3	1122167009	08/26/2011	08/26/2011
08	E5KT4	1122167010	08/26/2011	08/26/2011
09	E5KT5	1122167011	08/26/2011	08/26/2011
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26				

COMMENTS: _____

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKW2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab File ID: 21110824A048,21110824B048 Lab Sample ID: 232775

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 08/15/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N

Date Analyzed (1): 08/26/2011 Date Analyzed (2): 08/26/2011

Time Analyzed (1): 13:58 Time Analyzed (2): 14:30

Instrument ID (1): GCE21 Instrument ID (2): GCE21

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	PLCSW2	232777	08/26/2011	08/26/2011
02	E5KS7	1122348001	08/26/2011	08/27/2011
03	E5KS7MS	1122348002	08/27/2011	08/27/2011
04	E5KS7MSD	1122348003	08/27/2011	08/27/2011
05				
06				
07				
08				
09				
10				
11				
12				
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26				

COMMENTS: _____

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKW3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab File ID: 21110824A050,21110824B050 Lab Sample ID: 232790

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 08/16/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N

Date Analyzed (1): 08/26/2011 Date Analyzed (2): 08/26/2011

Time Analyzed (1): 15:01 Time Analyzed (2): 15:32

Instrument ID (1): GCE21 Instrument ID (2): GCE21

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	PLCSW3	232792	08/28/2011	08/28/2011
02	E5KT6	1122352001	08/27/2011	08/27/2011
03				
04				
05				
06				
07				
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COMMENTS: _____

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/25/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.99 DCB: 21.13

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	21110824A004	08/25/2011	14:53	7.99	21.13
02	PEM11	21110824A005	08/25/2011	15:24	7.99	21.13
03	TOXAPH111	21110824A006	08/25/2011	15:56	7.99	21.13
04	TOXAPH211	21110824A007	08/25/2011	16:27	7.99	21.13
05	TOXAPH311	21110824A008	08/25/2011	16:59	7.99	21.13
06	TOXAPH411	21110824A009	08/25/2011	17:30	7.99	21.13
07	TOXAPH511	21110824A010	08/25/2011	18:02	7.99	21.13
08	INDC111	21110824A011	08/25/2011	18:33	7.99	21.13
09	INDC211	21110824A012	08/25/2011	19:05	7.99	21.13
10	INDC311	21110824A013	08/25/2011	19:36	7.99	21.13
11	INDC411	21110824A014	08/25/2011	20:08	7.99	21.13
12	INDC511	21110824A015	08/25/2011	20:39	7.99	21.13
13	PIBLK21	21110824A016	08/25/2011	21:11	7.99	21.13
14	PEM21	21110824A017	08/25/2011	21:43	7.99	21.13
15	PIBLK41	21110824A042	08/26/2011	10:49	7.98	21.11
16	PEM41	21110824A043	08/26/2011	11:21	7.98	21.11
17	ZZZZZ		08/26/2011	11:52		
18	ZZZZZ		08/26/2011	12:24		
19	PBLKW1	21110824A046	08/26/2011	12:55	7.98	21.11
20	PLCSW1	21110824A047	08/26/2011	13:27	7.98	21.11
21	PBLKW2	21110824A048	08/26/2011	13:58	7.98	21.11
22	PLCSW2	21110824A049	08/26/2011	14:30	7.97	21.11
23	PBLKW3	21110824A050	08/26/2011	15:01	7.98	21.10
24	ZZZZZ		08/26/2011	15:32		
25	ZZZZZ		08/26/2011	16:04		
26	PIBLK51	21110824A053	08/26/2011	16:35	7.97	21.10
27	INDC351	21110824A054	08/26/2011	17:07	7.97	21.10
28	ZZZZZ		08/26/2011	17:39		
29	ZZZZZ		08/26/2011	18:10		
30	E5KS8	21110824A057	08/26/2011	18:41	7.98	21.10
31	ZZZZZ		08/26/2011	19:13		
32	ZZZZZ		08/26/2011	19:44		

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/25/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.99 DCB: 21.13

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KS9	21110824A060	08/26/2011	20:16	7.98	21.11
02	E5KT0	21110824A061	08/26/2011	20:47	7.98	21.10
03	E5KT1	21110824A062	08/26/2011	21:19	7.98	21.11
04	E5KT2	21110824A063	08/26/2011	21:50	7.97	21.11
05	E5KT3	21110824A064	08/26/2011	22:22	7.98	21.11
06	E5KT4	21110824A065	08/26/2011	22:53	7.98	21.10
07	E5KT5	21110824A066	08/26/2011	23:24	7.97	21.10
08	E5KS7	21110824A067	08/26/2011	23:56	7.97	21.10
09	E5KS7MS	21110824A068	08/27/2011	00:28	7.97	21.10
10	E5KS7MSD	21110824A069	08/27/2011	01:01	7.98	21.10
11	E5KT6	21110824A070	08/27/2011	01:34	7.97	21.10
12	ZZZZZ		08/27/2011	02:07		
13	PIBLK61	21110824A072	08/27/2011	02:40	7.96	21.10
14	PEM61	21110824A073	08/27/2011	03:13	7.96	21.09
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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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/28/2011 08/28/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.96 DCB: 21.08

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC81	21110828A004	08/28/2011	12:38	7.96	21.09
02	PEM81	21110828A005	08/28/2011	13:10	7.96	21.09
03	TOXAPH181	21110828A006	08/28/2011	13:42	7.96	21.09
04	TOXAPH281	21110828A007	08/28/2011	14:14	7.96	21.09
05	TOXAPH381	21110828A008	08/28/2011	14:46	7.96	21.09
06	TOXAPH481	21110828A009	08/28/2011	15:18	7.96	21.08
07	TOXAPH581	21110828A010	08/28/2011	15:50	7.96	21.08
08	INDC181	21110828A011	08/28/2011	16:22	7.95	21.08
09	INDC281	21110828A012	08/28/2011	16:58	7.98	21.09
10	INDC381	21110828A013	08/28/2011	17:30	7.96	21.08
11	INDC481	21110828A014	08/28/2011	18:03	7.95	21.08
12	INDC581	21110828A015	08/28/2011	18:35	7.95	21.08
13	PIBLK91	21110828A016	08/28/2011	19:07	7.95	21.08
14	PEM91	21110828A017	08/28/2011	19:39	7.95	21.08
15	ZZZZZ		08/28/2011	20:11		
16	PLCSW3	21110828A019	08/28/2011	20:43	7.95	21.08
17	ZZZZZ		08/28/2011	21:15		
18	ZZZZZ		08/28/2011	21:48		
19	ZZZZZ		08/28/2011	22:20		
20	ZZZZZ		08/28/2011	23:29		
21	ZZZZZ		08/29/2011	00:02		
22	ZZZZZ		08/29/2011	00:36		
23	ZZZZZ		08/29/2011	01:09		
24	ZZZZZ		08/29/2011	01:42		
25	ZZZZZ		08/29/2011	02:15		
26	ZZZZZ		08/29/2011	02:48		
27	ZZZZZ		08/29/2011	03:21		
28	PIBLKA1	21110828A031	08/29/2011	03:54	7.95	21.07
29	INDC3A1	21110828A032	08/29/2011	04:28	7.95	21.07
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/25/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 9.66 DCB: 23.72

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC12	21110824B004	08/25/2011	15:24	9.66	23.72
02	PEM12	21110824B005	08/25/2011	15:56	9.66	23.72
03	TOXAPH112	21110824B006	08/25/2011	16:27	9.66	23.72
04	TOXAPH212	21110824B007	08/25/2011	16:59	9.66	23.72
05	TOXAPH312	21110824B008	08/25/2011	17:30	9.66	23.72
06	TOXAPH412	21110824B009	08/25/2011	18:02	9.66	23.72
07	TOXAPH512	21110824B010	08/25/2011	18:33	9.66	23.72
08	INDC112	21110824B011	08/25/2011	19:05	9.66	23.72
09	INDC212	21110824B012	08/25/2011	19:36	9.66	23.72
10	INDC312	21110824B013	08/25/2011	20:08	9.66	23.72
11	INDC412	21110824B014	08/25/2011	20:39	9.65	23.72
12	INDC512	21110824B015	08/25/2011	21:11	9.65	23.72
13	PIBLK22	21110824B016	08/25/2011	21:43	9.65	23.71
14	PEM22	21110824B017	08/25/2011	22:14	9.65	23.71
15	PIBLK42	21110824B042	08/26/2011	11:21	9.64	23.70
16	PEM42	21110824B043	08/26/2011	11:52	9.64	23.70
17	ZZZZZ		08/26/2011	12:24		
18	ZZZZZ		08/26/2011	12:55		
19	PBLKW1	21110824B046	08/26/2011	13:27	9.64	23.69
20	PLCSW1	21110824B047	08/26/2011	13:58	9.64	23.69
21	PBLKW2	21110824B048	08/26/2011	14:30	9.64	23.69
22	PLCSW2	21110824B049	08/26/2011	15:01	9.63	23.69
23	PBLKW3	21110824B050	08/26/2011	15:32	9.64	23.69
24	ZZZZZ		08/26/2011	16:04		
25	ZZZZZ		08/26/2011	16:35		
26	PIBLK52	21110824B053	08/26/2011	17:07	9.63	23.68
27	INDC352	21110824B054	08/26/2011	17:39	9.63	23.68
28	ZZZZZ		08/26/2011	18:10		
29	ZZZZZ		08/26/2011	18:41		
30	E5KS8	21110824B057	08/26/2011	19:13	9.64	23.68
31	ZZZZZ		08/26/2011	19:44		
32	ZZZZZ		08/26/2011	20:16		

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/25/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 9.66 DCB: 23.72

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KS9	21110824B060	08/26/2011	20:47	9.64	23.69
02	E5KT0	21110824B061	08/26/2011	21:19	9.64	23.69
03	E5KT1	21110824B062	08/26/2011	21:50	9.64	23.69
04	E5KT2	21110824B063	08/26/2011	22:22	9.63	23.68
05	E5KT3	21110824B064	08/26/2011	22:53	9.64	23.68
06	E5KT4	21110824B065	08/26/2011	23:24	9.63	23.68
07	E5KT5	21110824B066	08/26/2011	23:56	9.63	23.68
08	E5KS7	21110824B067	08/27/2011	00:28	9.63	23.68
09	E5KS7MS	21110824B068	08/27/2011	01:01	9.63	23.68
10	E5KS7MSD	21110824B069	08/27/2011	01:34	9.63	23.68
11	E5KT6	21110824B070	08/27/2011	02:07	9.62	23.67
12	ZZZZZ		08/27/2011	02:40		
13	PIBLK62	21110824B072	08/27/2011	03:13	9.62	23.67
14	PEM62	21110824B073	08/27/2011	03:47	9.62	23.67
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/28/2011 08/28/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 9.61 DCB: 23.66

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC82	21110828B004	08/28/2011	13:10	9.61	23.66
02	PEM82	21110828B005	08/28/2011	13:42	9.61	23.66
03	TOXAPH182	21110828B006	08/28/2011	14:14	9.61	23.66
04	TOXAPH282	21110828B007	08/28/2011	14:46	9.61	23.66
05	TOXAPH382	21110828B008	08/28/2011	15:18	9.62	23.66
06	TOXAPH482	21110828B009	08/28/2011	15:50	9.61	23.66
07	TOXAPH582	21110828B010	08/28/2011	16:22	9.61	23.66
08	INDC182	21110828B011	08/28/2011	16:58	9.62	23.66
09	INDC282	21110828B012	08/28/2011	17:30	9.62	23.66
10	INDC382	21110828B013	08/28/2011	18:03	9.61	23.66
11	INDC482	21110828B014	08/28/2011	18:35	9.61	23.66
12	INDC582	21110828B015	08/28/2011	19:07	9.61	23.65
13	PIBLK92	21110828B016	08/28/2011	19:39	9.61	23.66
14	PEM92	21110828B017	08/28/2011	20:11	9.61	23.65
15	ZZZZZ		08/28/2011	20:43		
16	PLCSW3	21110828B019	08/28/2011	21:15	9.61	23.65
17	ZZZZZ		08/28/2011	21:48		
18	ZZZZZ		08/28/2011	22:20		
19	ZZZZZ		08/28/2011	23:29		
20	ZZZZZ		08/29/2011	00:02		
21	ZZZZZ		08/29/2011	00:36		
22	ZZZZZ		08/29/2011	01:09		
23	ZZZZZ		08/29/2011	01:42		
24	ZZZZZ		08/29/2011	02:15		
25	ZZZZZ		08/29/2011	02:48		
26	ZZZZZ		08/29/2011	03:21		
27	ZZZZZ		08/29/2011	03:54		
28	PIBLKA2	21110828B031	08/29/2011	04:28	9.60	23.65
29	INDC3A2	21110828B032	08/29/2011	05:01	9.60	23.65
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.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A067,21110824B067

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2011

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 ~~0.0046~~	~~JBP~~ U DRC 9-19-1
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050 ~~0.0072~~	~~JP~~ 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 ~~0.0025~~	~~JP~~ U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10 ~~0.0018~~	~~JP~~ 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 ~~0.0020~~	~~JP~~ 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.

E5KS7MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A068

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2011

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	0.00077	J
319-85-7	beta-BHC	0.050 ~~0.067~~	~~BP~~ U
319-86-8	delta-BHC	0.0062	J
58-89-9	gamma-BHC (Lindane)	0.54	
76-44-8	Heptachlor	0.47	
309-00-2	Aldrin	0.52	
1024-57-3	Heptachlor epoxide	0.0012	J
959-98-8	Endosulfan I	0.050 ~~0.0056~~	~~JP~~ U
60-57-1	Dieldrin	1.1	
72-55-9	4,4'-DDE	0.0058	J
72-20-8	Endrin	1.0	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.023	J
50-29-3	4,4'-DDT	0.99	
72-43-5	Methoxychlor	0.030	J
53494-70-5	Endrin ketone	0.043	J
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050 ~~0.0024~~	~~JP~~ U
8001-35-2	Toxaphene	5.0	U

DZC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824B068

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2011

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 ~~0.0068~~	~~JDP~~ U DRC 9-19-11
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.62	
76-44-8	Heptachlor	0.51	
309-00-2	Aldrin	0.56	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050 ~~0.0034~~	~~JP~~ U
60-57-1	Dieldrin	1.1	
72-55-9	4,4'-DDE	0.0056	J
72-20-8	Endrin	1.2	
33213-65-9	Endosulfan II	0.038	J
72-54-8	4,4'-DDD	0.021	J
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	1.0	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.042	J
7421-93-4	Endrin aldehyde	0.045	J
5103-71-9	alpha-Chlordane	0.0032	J
5103-74-2	gamma-Chlordane	0.050 ~~0.0011~~	~~JP~~ U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A069

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2011

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	0.00077	J
319-85-7	beta-BHC	0.067	B
319-86-8	delta-BHC	0.0061	J
58-89-9	gamma-BHC (Lindane)	0.54	
76-44-8	Heptachlor	0.48	
309-00-2	Aldrin	0.53	
1024-57-3	Heptachlor epoxide	0.0014	J
959-98-8	Endosulfan I	0.050 ~~0.0054~~	~~JP~~ U
60-57-1	Dieldrin	1.0	
72-55-9	4,4'-DDE	0.0047	J
72-20-8	Endrin	1.0	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10 ~~0.0091~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	0.035	J
50-29-3	4,4'-DDT	0.92	
72-43-5	Methoxychlor	0.037	J
53494-70-5	Endrin ketone	0.043	J
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050 ~~0.00040~~	~~JP~~ U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

DRC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS7MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824B069

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2011

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)	0.58	
76-44-8	Heptachlor	0.52	
309-00-2	Aldrin	0.55	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050 ~~0.0030~~	~~JP~~ U
60-57-1	Dieldrin	1.1	
72-55-9	4,4'-DDE	0.0056	J
72-20-8	Endrin	1.1	
33213-65-9	Endosulfan II	0.043	J
72-54-8	4,4'-DDD	0.10 ~~0.021~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	1.0	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.042	J
7421-93-4	Endrin aldehyde	0.049	J
5103-71-9	alpha-Chlordane	0.050 ~~0.0035~~	~~JP~~ U
5103-74-2	gamma-Chlordane	0.0013	J
8001-35-2	Toxaphene	5.0	U

DRC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167004

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A057,21110824B057

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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	~~0.0030~~	~~JP~~ U 9-19-11
76-44-8	Heptachlor	0.050	~~0.0019~~	~~JP~~ U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide	0.050	~~0.0018~~	~~JP~~ U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin	0.10	~~0.0039~~	~~JP~~ U
72-55-9	4,4'-DDE	0.10	~~0.0013~~	~~JP~~ 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	~~0.00084~~	~~JP~~ U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone		0.10	U
7421-93-4	Endrin aldehyde	0.10	~~0.0061~~	~~JP~~ U
5103-71-9	alpha-Chlordane	0.050	~~0.0078~~	~~JP~~ U
5103-74-2	gamma-Chlordane	0.050	~~0.0073~~	~~JP~~ U
8001-35-2	Toxaphene		5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A060,21110824B060

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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 ~~0.0016~~	~~JP~~ U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050 ~~0.0043~~	~~JP~~ U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10 ~~0.0047~~	~~JP~~ U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.016	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 ~~0.00044~~	~~JP~~ U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10 ~~0.0034~~	~~JBP~~ U
7421-93-4	Endrin aldehyde	0.10 ~~0.0053~~	~~JP~~ U
5103-71-9	alpha-Chlordane	0.050 ~~0.0040~~	~~JP~~ U
5103-74-2	gamma-Chlordane	0.050 ~~0.0087~~	~~JP~~ U
8001-35-2	Toxaphene	5.0	U

DRC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A061,21110824B061

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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 ~~0.0036~~	~~JP~~ U
76-44-8	Heptachlor	0.050 ~~0.0071~~	~~JP~~ 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 ~~0.0037~~	~~JP~~ U
72-55-9	4,4'-DDE	0.10 ~~0.0011~~	~~JP~~ 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 ~~0.00079~~	~~JP~~ U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10 ~~0.0031~~	~~JP~~ U
5103-71-9	alpha-Chlordane	0.050 ~~0.0054~~	~~JP~~ U
5103-74-2	gamma-Chlordane	0.050 ~~0.0072~~	~~JP~~ U
8001-35-2	Toxaphene	5.0	U

DRC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A062,21110824B062

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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	~~0.0037~~	~~JP~~ U
76-44-8	Heptachlor	0.050	~~0.0090~~	~~JP~~ U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide	0.050	~~0.0014~~	~~JP~~ U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin	0.10	~~0.0034~~	~~JP~~ U
72-55-9	4,4'-DDE	0.10	~~0.0010~~	~~JP~~ 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	~~0.00090~~	~~JP~~ U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	0.10	~~0.0027~~	~~JBP~~ U
7421-93-4	Endrin aldehyde	0.10	~~0.0062~~	~~JP~~ U
5103-71-9	alpha-Chlordane	0.050	~~0.0046~~	~~JP~~ U
5103-74-2	gamma-Chlordane	0.050	~~0.0054~~	~~JP~~ U
8001-35-2	Toxaphene		5.0	U

DRC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A063,21110824B063

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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 ~~0.0019~~	~~JP~~ U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050 ~~0.0019~~	~~JP~~ U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10 ~~0.00090~~	~~JP~~ 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 ~~0.0012~~	~~JP~~ U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10 ~~0.0015~~	~~JBP~~ U
7421-93-4	Endrin aldehyde	0.10 ~~0.0055~~	~~JP~~ U
5103-71-9	alpha-Chlordane	0.050 ~~0.0022~~	~~JP~~ U
5103-74-2	gamma-Chlordane	0.0068	J
8001-35-2	Toxaphene	5.0	U

DRC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167009

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A064,21110824B064

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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 ~~0.0097~~	~~JP~~ U DRC 9-19-11
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	0.0022	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 ~~0.0042~~	~~JP~~ U
5103-71-9	alpha-Chlordane	0.050 ~~0.0041~~	~~JP~~ 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.

E5KT4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167010

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A065,21110824B065

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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 ~~0.0033~~	~~JP~~ U DRC 9-19-11
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	0.0021	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 ~~0.0045~~	~~JP~~ U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KT5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A066,21110824B066

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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 ~~0.0053~~	~~JP~~ U DRC 9-19-11
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.020	JP
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 ~~0.00046~~	~~JP~~ U
72-55-9	4,4'-DDE	0.10 ~~0.00077~~	~~JP~~ 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 ~~0.0015~~	~~JBP~~ 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.

E5KT6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A070,21110824B070

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/11/2011

Extraction: (Type) SEPF Date Extracted: 08/16/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2011

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	0.018	JB
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050 ~~0.0019~~	~~JP~~ U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050 ~~0.0067~~	~~JP~~ 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 ~~0.0012~~	~~JP~~ 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 ~~0.0024~~	~~JP~~ 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 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232152

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A046,21110824B046

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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 ~~0.0033~~	~~JP~~ U DRC 9-19-11
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.

PBLKW2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232775

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A048,21110824B048

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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 ~~0.0050~~	~~JP~~ 4
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	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 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232790

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A050,21110824B050

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/16/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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 ~~0.0044~~	~~JP~~ U DRC 9-19-11
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	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.

PLCSW1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232151

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A047

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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)	0.044	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.049	J
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.094	J
72-55-9	4,4'-DDE	0.089	J
72-20-8	Endrin	0.10	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.12	P
50-29-3	4,4'-DDT	0.10 ~~0.0022~~	~~JP~~ U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10 ~~0.011~~	~~JBP~~ U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.048	J
8001-35-2	Toxaphene	5.0	U

DRC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSW1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232151

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824B047

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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)	0.044	J
76-44-8	Heptachlor	0.0012	J
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.047	J
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.086	J
72-55-9	4,4'-DDE	0.094	J
72-20-8	Endrin	0.11	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.088	JP
50-29-3	4,4'-DDT	0.10 ~~0.0044~~	~~JP~~ U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10 ~~0.0061~~	~~JBP~~ U
7421-93-4	Endrin aldehyde	0.0091	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.046	J
8001-35-2	Toxaphene	5.0	U

JRC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSW2(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232777

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824A049

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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)	0.042	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.047	J
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	J
72-55-9	4,4'-DDE	0.089	J
72-20-8	Endrin	0.10	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.080	J
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.0068	J
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.052	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSW2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232777

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110824B049

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/26/2011

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)	0.047	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.052	
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.093	J
72-55-9	4,4'-DDE	0.093	J
72-20-8	Endrin	0.10	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.090	J
50-29-3	4,4'-DDT	0.0012	J
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.016	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.052	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSW3(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232792

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110828A019

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/16/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/28/2011

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	0.00044	J
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.044	J
76-44-8	Heptachlor	0.0018	J
309-00-2	Aldrin	0.0091	J
1024-57-3	Heptachlor epoxide	0.050	J
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.098	J
72-55-9	4,4'-DDE	0.087	J
72-20-8	Endrin	0.10	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.11	
50-29-3	4,4'-DDT	0.10 ~~0.0018~~	~~JP~~ U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10 ~~0.0017~~	~~JP~~ U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.049	J
8001-35-2	Toxaphene	5.0	U

DRC 9-19-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSW3(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232792

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110828B019

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/16/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/28/2011

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	0.0022	J
58-89-9	gamma-BHC (Lindane)	0.044	J
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.049	J
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.092	J
72-55-9	4,4'-DDE	0.095	J
72-20-8	Endrin	0.11	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	
50-29-3	4,4'-DDT	0.10 ~~0.0024~~	~~JP~~ U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10 ~~0.0062~~	~~JP~~ U
7421-93-4	Endrin aldehyde	0.0084	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.049	J
8001-35-2	Toxaphene	5.0	U

DRC 9-19-11

2Q - FORM II ARO-1
WATER AROCLOR SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

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	66	76	82	82			0
02	ABLKW2	62	66	85	77			0
03	ABLKW3	73	75	83	80			0
04	ALCSW1	69	72	76	77			0
05	ALCSW2	59	61	76	73			0
06	ALCSW3	71	72	78	73			0
07	E5KS7	65	73	76	78			0
08	E5KS8	82	75	73	74			0
09	E5KS9	83	74	62	58			0
10	E5KT0	82	75	63	62			0
11	E5KT1	78	73	56	55			0
12	E5KT2	43	71	31	53			0
13	E5KT3	66	65	39	42			0
14	E5KT4	72	65	34	44			0
15	E5KT5	65	66	41	40			0
16	E5KT6	39	39	19 *	19 *			2
17	E5KS7MS	67	69	70	75			0
18	E5KS7MSD	64	69	72	75			0
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

3J- FORM III ARO-1

WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix Spike - EPA Sample No.: E5KS7

Instrument ID: GCE21 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	3.6	89	29-135
AR1260	4.0	0	3.4	86	29-135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	4.0	3.6	89	0	0-15	29-135
AR1260	4.0	3.6	90	4	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix Spike - EPA Sample No.: E5KS7

Instrument ID: GCE21 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	3.8	94	29-135
AR1260	4.0	0	3.5	87	29-135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	4.0	3.8	94	0	0-15	29-135
AR1260	4.0	3.6	89	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: _____

3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab Sample ID: 232153 LCS Lot No.: _____

Date Extracted: 08/10/2011 Date Analyzed (1): 08/30/2011

Instrument ID (1): GCE21 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
AR1016	1.0	0.97	97	50-150
AR1260	1.0	1.0	103	50-150

Instrument ID (2): GCE21 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/30/2011

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
AR1016	1.0	1.1	111	50-150
AR1260	1.0	1.0	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: _____

3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSW2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab Sample ID: 232776 LCS Lot No.: _____

Date Extracted: 08/15/2011 Date Analyzed (1): 08/30/2011

Instrument ID (1): GCE21 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC	#	QC LIMITS
AR1016	1.0	0.96	96		50-150
AR1260	1.0	1.1	107		50-150

Instrument ID (2): GCE21 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/30/2011

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC	#	QC LIMITS
AR1016	1.0	1.0	105		50-150
AR1260	1.0	1.1	110		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: _____

3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSW3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab Sample ID: 232791 LCS Lot No.: _____

Date Extracted: 08/16/2011 Date Analyzed (1): 08/30/2011

Instrument ID (1): GCE21 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
AR1016	1.0	1.1	112	50-150
AR1260	1.0	1.4	138	50-150

Instrument ID (2): GCE21 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/30/2011

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
AR1016	1.0	1.2	119	50-150
AR1260	1.0	1.2	116	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab File ID: 21110830A018,21110830B018 Lab Sample ID: 232152

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 08/10/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 08/30/2011 Date Analyzed (2): 08/30/2011

Time Analyzed (1): 07:14 Time Analyzed (2): 07:33

Instrument ID (1): GCE21 Instrument ID (2): GCE21

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	232153	08/30/2011	08/30/2011
02	E5KS8	1122167004	08/30/2011	08/30/2011
03	E5KS9	1122167005	08/30/2011	08/30/2011
04	E5KT0	1122167006	08/30/2011	08/30/2011
05	E5KT1	1122167007	08/30/2011	08/30/2011
06	E5KT2	1122167008	08/30/2011	08/30/2011
07	E5KT3	1122167009	08/30/2011	08/30/2011
08	E5KT4	1122167010	08/30/2011	08/30/2011
09	E5KT5	1122167011	08/30/2011	08/30/2011
10				
11				
12				
13				
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21				
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23				
24				
25				
26				

COMMENTS: _____

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLKW2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab File ID: 21110830A019,21110830B019 Lab Sample ID: 232775

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 08/15/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 08/30/2011 Date Analyzed (2): 08/30/2011

Time Analyzed (1): 07:33 Time Analyzed (2): 07:53

Instrument ID (1): GCE21 Instrument ID (2): GCE21

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	ALCSW2	232776	08/30/2011	08/30/2011
02	E5KS7	1122348001	08/30/2011	08/30/2011
03	E5KS7MS	1122348002	08/30/2011	08/30/2011
04	E5KS7MSD	1122348003	08/30/2011	08/30/2011
05				
06				
07				
08				
09				
10				
11				
12				
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22				
23				
24				
25				
26				

COMMENTS: _____

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLKW3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Lab File ID: 21110830A020,21110830B020 Lab Sample ID: 232790

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 08/16/2011

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 08/30/2011 Date Analyzed (2): 08/30/2011

Time Analyzed (1): 07:53 Time Analyzed (2): 08:13

Instrument ID (1): GCE21 Instrument ID (2): GCE21

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	ALCSW3	232791	08/30/2011	08/30/2011
02	E5KT6	1122352001	08/30/2011	08/30/2011
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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26				

COMMENTS: _____

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/30/2011 08/30/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.76 DCB: 12.19

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660111	21110830A004	08/30/2011	02:36	4.76	12.19
02	AR1660211	21110830A005	08/30/2011	02:56	4.76	12.19
03	AR1660311	21110830A006	08/30/2011	03:16	4.76	12.19
04	AR1660411	21110830A007	08/30/2011	03:36	4.76	12.19
05	AR1660511	21110830A008	08/30/2011	03:56	4.76	12.19
06	AR1221311	21110830A009	08/30/2011	04:15	4.76	12.19
07	AR1232311	21110830A010	08/30/2011	04:35	4.76	12.19
08	AR1242311	21110830A011	08/30/2011	04:55	4.76	12.19
09	AR1248311	21110830A012	08/30/2011	05:15	4.76	12.19
10	AR1254311	21110830A013	08/30/2011	05:35	4.76	12.19
11	AR1262311	21110830A014	08/30/2011	05:55	4.76	12.19
12	AR1268311	21110830A015	08/30/2011	06:15	4.76	12.19
13	AIBLK21	21110830A016	08/30/2011	06:34	4.76	12.19
14	AR1660321	21110830A017	08/30/2011	06:54	4.76	12.19
15	ABLKW1	21110830A018	08/30/2011	07:14	4.77	12.19
16	ABLKW2	21110830A019	08/30/2011	07:33	4.76	12.19
17	ABLKW3	21110830A020	08/30/2011	07:53	4.76	12.19
18	ZZZZZ		08/30/2011	08:13		
19	ZZZZZ		08/30/2011	09:12		
20	ALCSW1	21110830A023	08/30/2011	09:32	4.76	12.19
21	ALCSW2	21110830A024	08/30/2011	09:51	4.76	12.19
22	ALCSW3	21110830A025	08/30/2011	10:10	4.76	12.19
23	ZZZZZ		08/30/2011	10:30		
24	ZZZZZ		08/30/2011	10:49		
25	E5KS8	21110830A028	08/30/2011	11:09	4.77	12.19
26	E5KS9	21110830A029	08/30/2011	11:28	4.76	12.19
27	E5KT0	21110830A030	08/30/2011	11:47	4.76	12.19
28	E5KT1	21110830A031	08/30/2011	12:07	4.76	12.19
29	E5KT2	21110830A032	08/30/2011	12:26	4.77	12.19
30	E5KT3	21110830A033	08/30/2011	12:46	4.77	12.19
31	E5KT4	21110830A034	08/30/2011	13:05	4.76	12.19
32	E5KT5	21110830A035	08/30/2011	13:25	4.76	12.18

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/30/2011 08/30/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.76 DCB: 12.19

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KS7	21110830A036	08/30/2011	13:44	4.76	12.18
02	E5KS7MS	21110830A037	08/30/2011	14:04	4.76	12.18
03	E5KS7MSD	21110830A038	08/30/2011	14:23	4.76	12.18
04	E5KT6	21110830A039	08/30/2011	14:43	4.76	12.18
05	ZZZZZ		08/30/2011	15:02		
06	ZZZZZ		08/30/2011	15:22		
07	ZZZZZ		08/30/2011	15:42		
08	ZZZZZ		08/30/2011	16:01		
09	ZZZZZ		08/30/2011	16:21		
10	ZZZZZ		08/30/2011	16:40		
11	ZZZZZ		08/30/2011	17:00		
12	AIBLK31	21110830A047	08/30/2011	17:19	4.76	12.18
13	AR1660331	21110830A048	08/30/2011	17:39	4.76	12.18
14						
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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.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/30/2011 08/30/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.38 DCB: 13.39

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660112	21110830B004	08/30/2011	02:56	5.39	13.39
02	AR1660212	21110830B005	08/30/2011	03:16	5.39	13.39
03	AR1660312	21110830B006	08/30/2011	03:36	5.38	13.39
04	AR1660412	21110830B007	08/30/2011	03:56	5.38	13.39
05	AR1660512	21110830B008	08/30/2011	04:15	5.38	13.39
06	AR1221312	21110830B009	08/30/2011	04:35	5.38	13.39
07	AR1232312	21110830B010	08/30/2011	04:55	5.38	13.39
08	AR1242312	21110830B011	08/30/2011	05:15	5.38	13.39
09	AR1248312	21110830B012	08/30/2011	05:35	5.39	13.39
10	AR1254312	21110830B013	08/30/2011	05:55	5.39	13.39
11	AR1262312	21110830B014	08/30/2011	06:15	5.39	13.39
12	AR1268312	21110830B015	08/30/2011	06:34	5.39	13.39
13	AIBLK22	21110830B016	08/30/2011	06:54	5.38	13.39
14	AR1660322	21110830B017	08/30/2011	07:14	5.38	13.39
15	ABLKW1	21110830B018	08/30/2011	07:33	5.39	13.39
16	ABLKW2	21110830B019	08/30/2011	07:53	5.39	13.39
17	ABLKW3	21110830B020	08/30/2011	08:13	5.39	13.39
18	ZZZZZ		08/30/2011	09:12		
19	ZZZZZ		08/30/2011	09:32		
20	ALCSW1	21110830B023	08/30/2011	09:51	5.39	13.39
21	ALCSW2	21110830B024	08/30/2011	10:10	5.38	13.39
22	ALCSW3	21110830B025	08/30/2011	10:30	5.39	13.39
23	ZZZZZ		08/30/2011	10:49		
24	ZZZZZ		08/30/2011	11:09		
25	E5KS8	21110830B028	08/30/2011	11:28	5.39	13.39
26	E5KS9	21110830B029	08/30/2011	11:47	5.39	13.39
27	E5KT0	21110830B030	08/30/2011	12:07	5.39	13.39
28	E5KT1	21110830B031	08/30/2011	12:26	5.39	13.38
29	E5KT2	21110830B032	08/30/2011	12:46	5.38	13.39
30	E5KT3	21110830B033	08/30/2011	13:05	5.39	13.38
31	E5KT4	21110830B034	08/30/2011	13:25	5.39	13.38
32	E5KT5	21110830B035	08/30/2011	13:44	5.38	13.38

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/30/2011 08/30/2011

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.38 DCB: 13.39

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KS7	21110830B036	08/30/2011	14:04	5.38	13.38
02	E5KS7MS	21110830B037	08/30/2011	14:23	5.38	13.38
03	E5KS7MSD	21110830B038	08/30/2011	14:43	5.38	13.38
04	E5KT6	21110830B039	08/30/2011	15:02	5.38	13.38
05	ZZZZZ		08/30/2011	15:22		
06	ZZZZZ		08/30/2011	15:42		
07	ZZZZZ		08/30/2011	16:01		
08	ZZZZZ		08/30/2011	16:21		
09	ZZZZZ		08/30/2011	16:40		
10	ZZZZZ		08/30/2011	17:00		
11	ZZZZZ		08/30/2011	17:19		
12	AIBLK32	21110830B047	08/30/2011	17:39	5.38	13.38
13	AR1660332	21110830B048	08/30/2011	17:58	5.38	13.38
14						
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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.

ABLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232152

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A018,21110830B018

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

ABLKW2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232775

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A019,21110830B019

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

ABLKW3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232790

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A020,21110830B020

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/16/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232153

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A023

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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	0.97	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	1.0	
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232153

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830B023

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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	1.1	
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	
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.

ALCSW2(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232776

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A024

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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	0.96	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	1.1	
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.

ALCSW2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232776

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830B024

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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	
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	1.1	
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.

ALCSW3(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232791

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A025

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/16/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.1	
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	1.4	
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.

ALCSW3(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 232791

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830B025

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 08/16/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.2	
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	1.2	
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.

E5KS7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A036,21110830B036

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

E5KS7MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A037

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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	3.6	
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	3.4	
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.

E5KS7MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830B037

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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	3.8	
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	3.5	
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.

E5KS7MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A038

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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	3.6	
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	3.6	
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.

E5KS7MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122348003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830B038

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/10/2011

Extraction: (Type) SEPF Date Extracted: 08/15/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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	3.8	
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	3.6	
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.

E5KS8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167004

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A028,21110830B028

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

E5KS9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A029,21110830B029

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

E5KT0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A030,21110830B030

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

E5KT1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A031,21110830B031

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

E5KT2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A032,21110830B032

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

E5KT3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167009

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A033,21110830B033

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

E5KT4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167010

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A034,21110830B034

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

E5KT5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122167011

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A035,21110830B035

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/09/2011

Extraction: (Type) SEPF Date Extracted: 08/10/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

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.

E5KT6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KS7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1122352001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21110830A039,21110830B039

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/11/2011

Extraction: (Type) SEPF Date Extracted: 08/16/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/30/2011

Injection Volume: 2.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

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

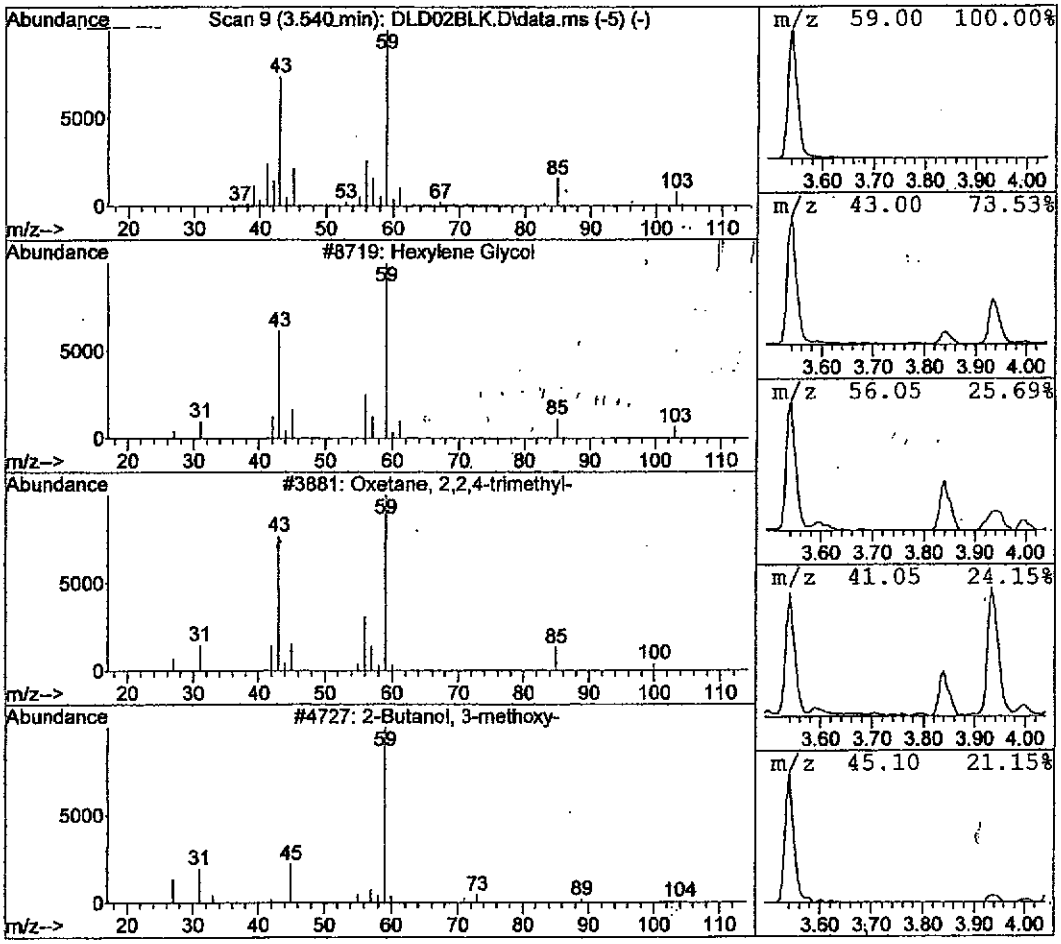
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD02BLK.D Vial: 2
Acq On : 08/12/2011 09:49 Operator: RAH
Sample : 232055 SBLK55 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1ul
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.54	7.36 ug/ml	191970	1,4-Dichlorobenzene-d4	521523

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexylene Glycol	8719	000107-41-5	90.00
2	Oxetane, 2,2,4-trimethyl-	3881	023120-44-7	72.00
3	2-Butanol, 3-methoxy-	4727	053778-72-6	47.00
4	2-Propanol, 1-methoxy-2-methyl-	4754	003587-64-2	47.00
5	Acetic acid, ethoxy-, 1-methylethyl	21671	054063-13-7	45.00



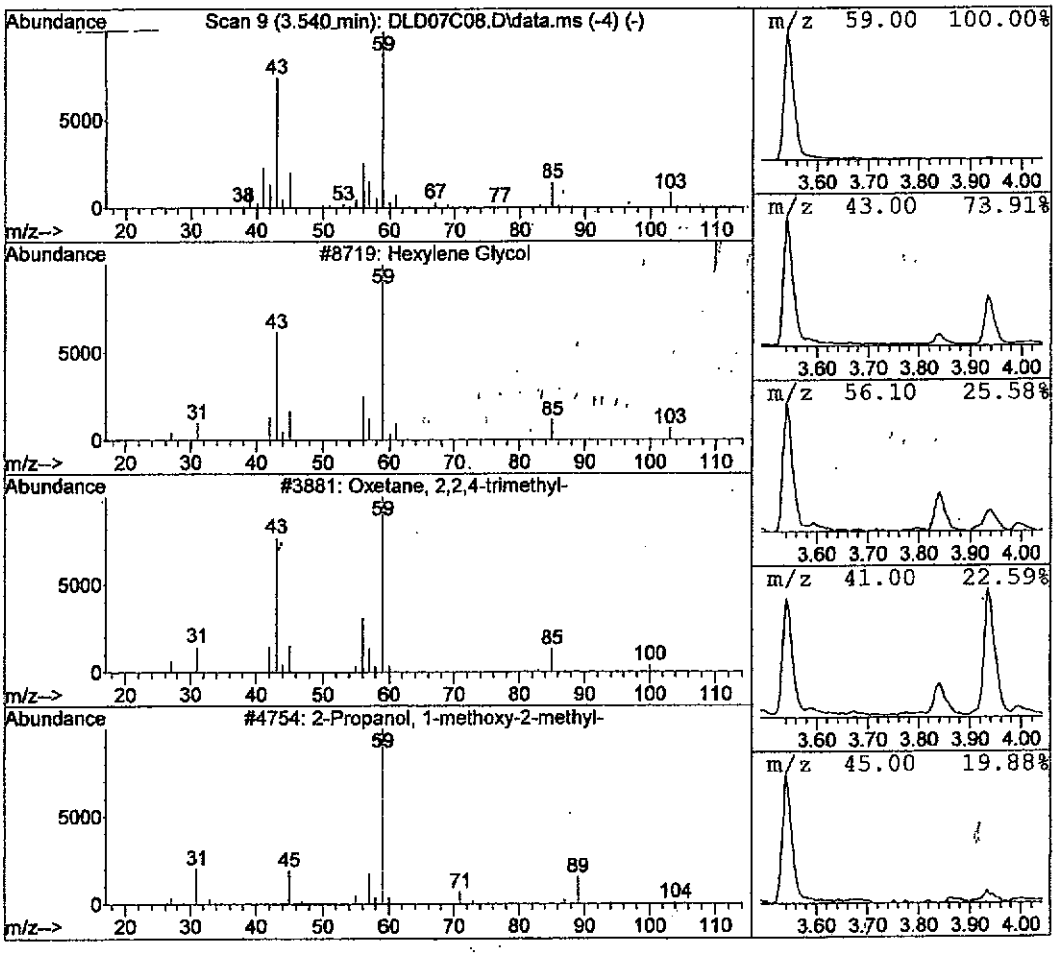
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD07C08.D Vial: 7
Acq On : 08/12/2011 12:13 Operator: RAH
Sample : 1122167008 E5KT2 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.54	6.53 ug/ml	231892	1,4-Dichlorobenzene-d4	710659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexylene Glycol	8719	000107-41-5	78.00
2	Oxetane, 2,2,4-trimethyl-	3881	023120-44-7	72.00
3	2-Propanol, 1-methoxy-2-methyl-	4754	003587-64-2	47.00
4	Acetic acid, ethoxy-, 1-methylethyl	21671	054063-13-7	45.00
5	2-Butanol, 3-methoxy-	4727	053778-72-6	43.00



00286

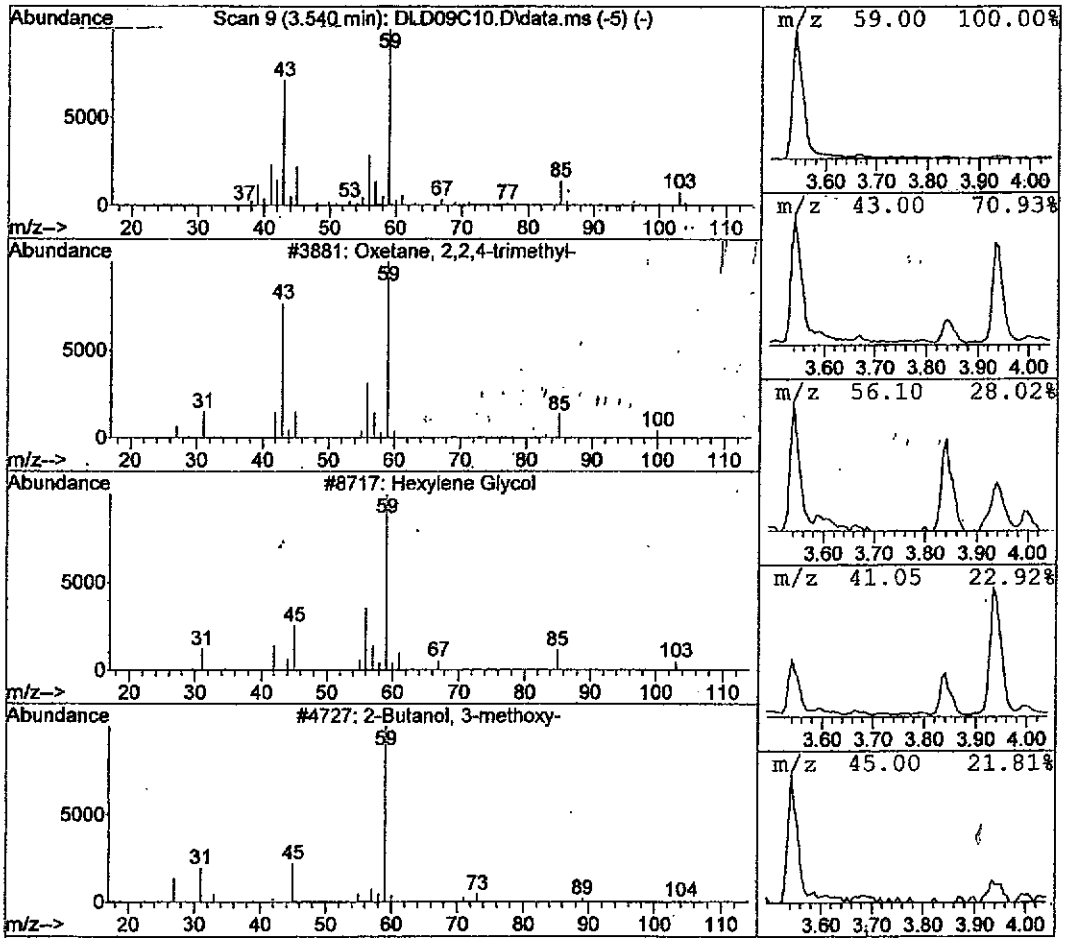
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD09C10.D Vial: 9
Acq On : 08/12/2011 13:11 Operator: RAH
Sample : 1122167010 E5KT4 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.54	3.01 ug/ml	90183	1,4-Dichlorobenzene-d4	600201

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxetane, 2,2,4-trimethyl-	3881	023120-44-7	72.00
2	Hexylene Glycol	8717	000107-41-5	53.00
3	2-Butanol, 3-methoxy-	4727	053778-72-6	53.00
4	dl-Erythro-O-methylthreonine	14451	1000214-70-7	36.00
5	3-Hexanol, 5-methyl-	8278	000623-55-2	36.00



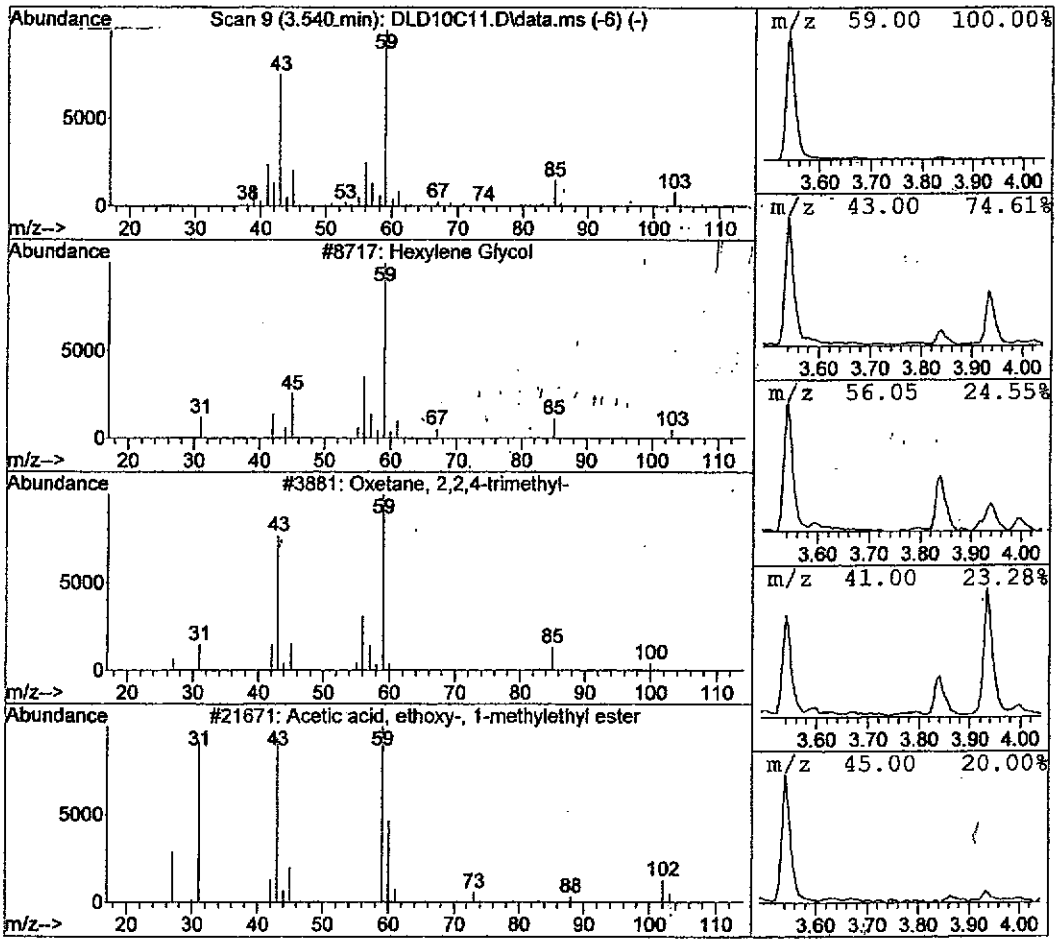
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD10C11.D Vial: 10
Acq On : 08/12/2011 13:40 Operator: RAH
Sample : 1122167011 E5KT5 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.54	5.34 ug/ml	182511	1,4-Dichlorobenzene-d4	683934

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexylene Glycol	8717	000107-41-5	80.00
2	Oxetane, 2,2,4-trimethyl-	3881	023120-44-7	72.00
3	Acetic acid, ethoxy-, 1-methylethyl	21671	054063-13-7	59.00
4	2-Butanol, 3-methoxy-	4727	053778-72-6	49.00
5	2-Propanol, 1-methoxy-2-methyl-	4754	003587-64-2	47.00



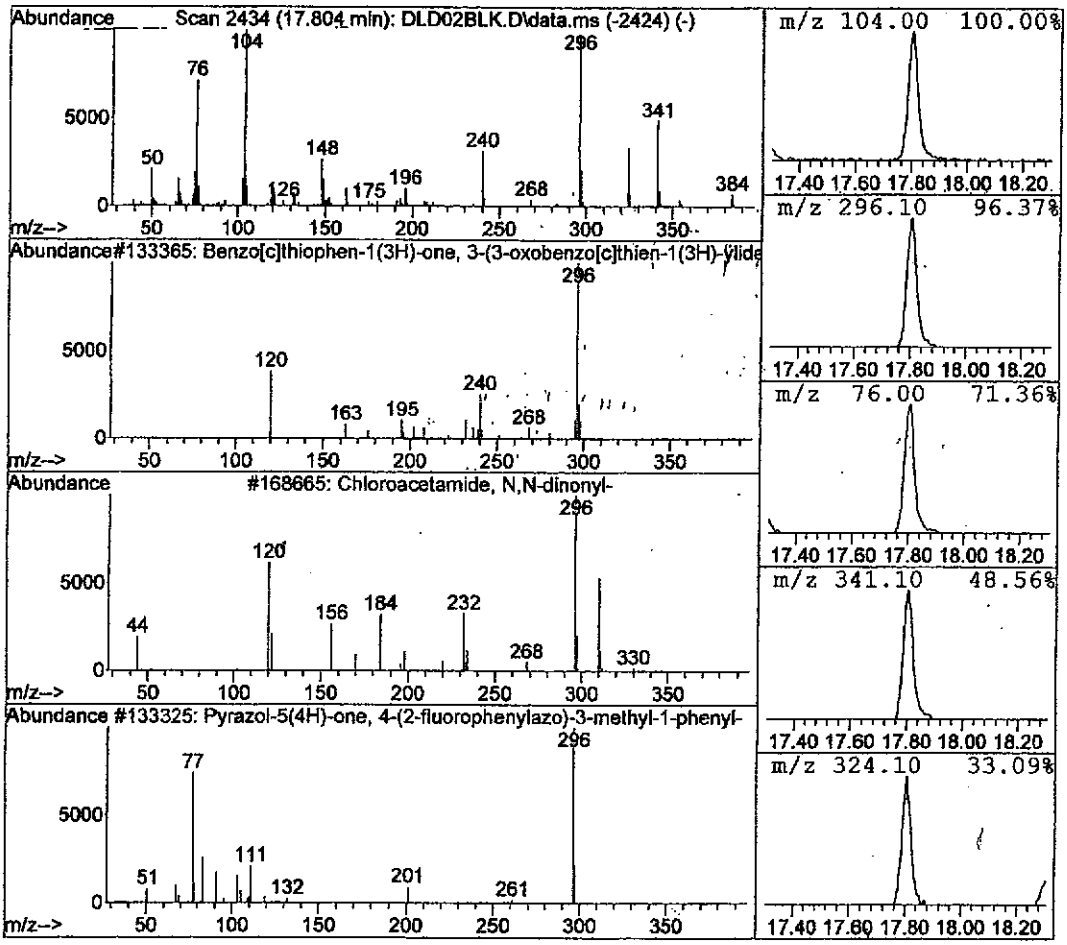
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD02BLK.D Vial: 2
Acq On : 08/12/2011 09:49 Operator: RAH
Sample : 232055 SBLK55 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.80	7.43 ug/ml	220231	Perylene-d12	593037

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	133365	023667-32-5	22.00
2	Chloroacetamide, N,N-dinonyl-	168665	1000308-48-1	18.00
3	Pyrazol-5(4H)-one, 4-(2-fluoropheny	133325	125910-81-8	14.00
4	Benzene, 1,1'-(1,2-diethyl-1,2-ethe	133776	007773-34-4	14.00
5	Dinaphtho[2,3-b:1',2'-d]pyran-7-one	133818	154352-87-1	14.00



00495

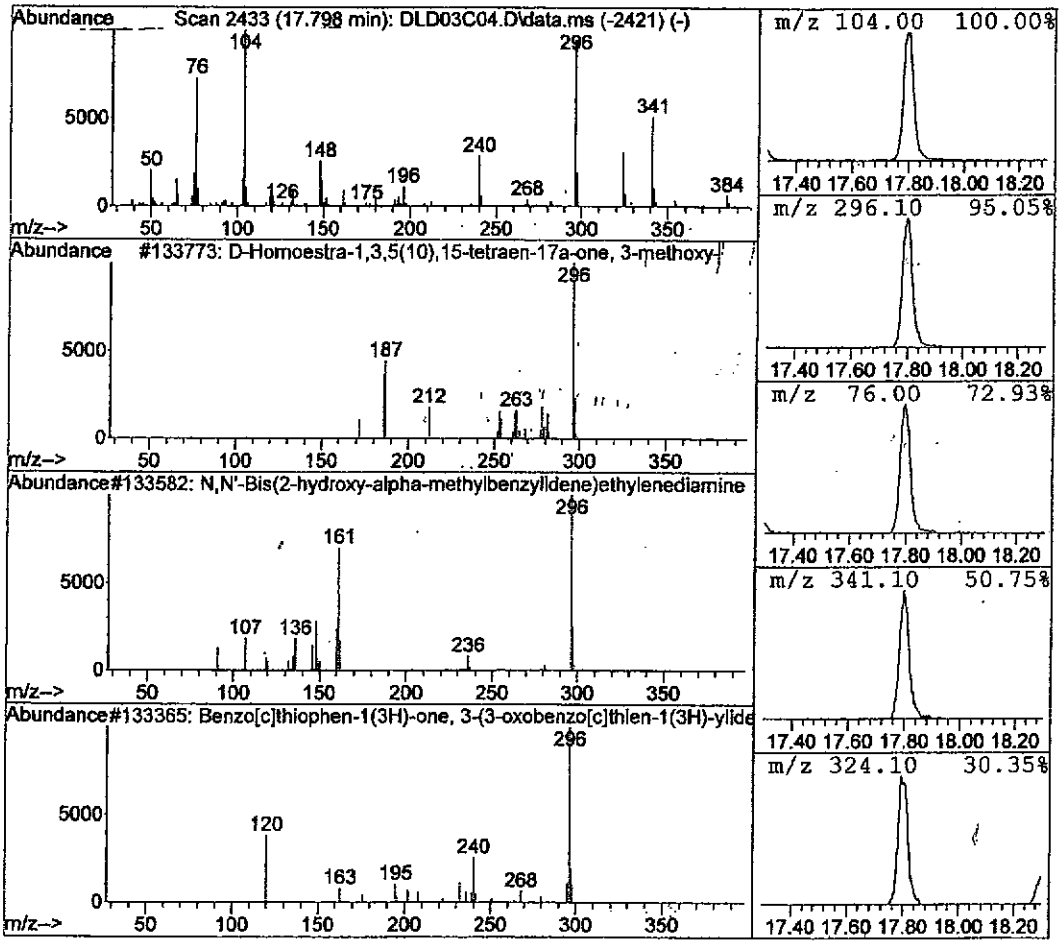
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD03C04.D Vial: 3
Acq On : 08/12/2011 10:18 Operator: RAH
Sample : 1122167004 E5KS8 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.80	9.50 ug/ml	314882	Perylene-d12	663111

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Homoestra-1,3,5(10),15-tetraen-17	133773	054844-27-8	25.00
2	N,N'-Bis(2-hydroxy-alpha-methylbenz	133582	005464-60-8	22.00
3	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	133365	023667-32-5	22.00
4	Chloroacetamide, N,N-dinonyl-	168665	1000308-48-1	18.00
5	Xanthine, 1,3-dimethyl-8-[2-[2-meth	133332	1000129-52-7	18.00



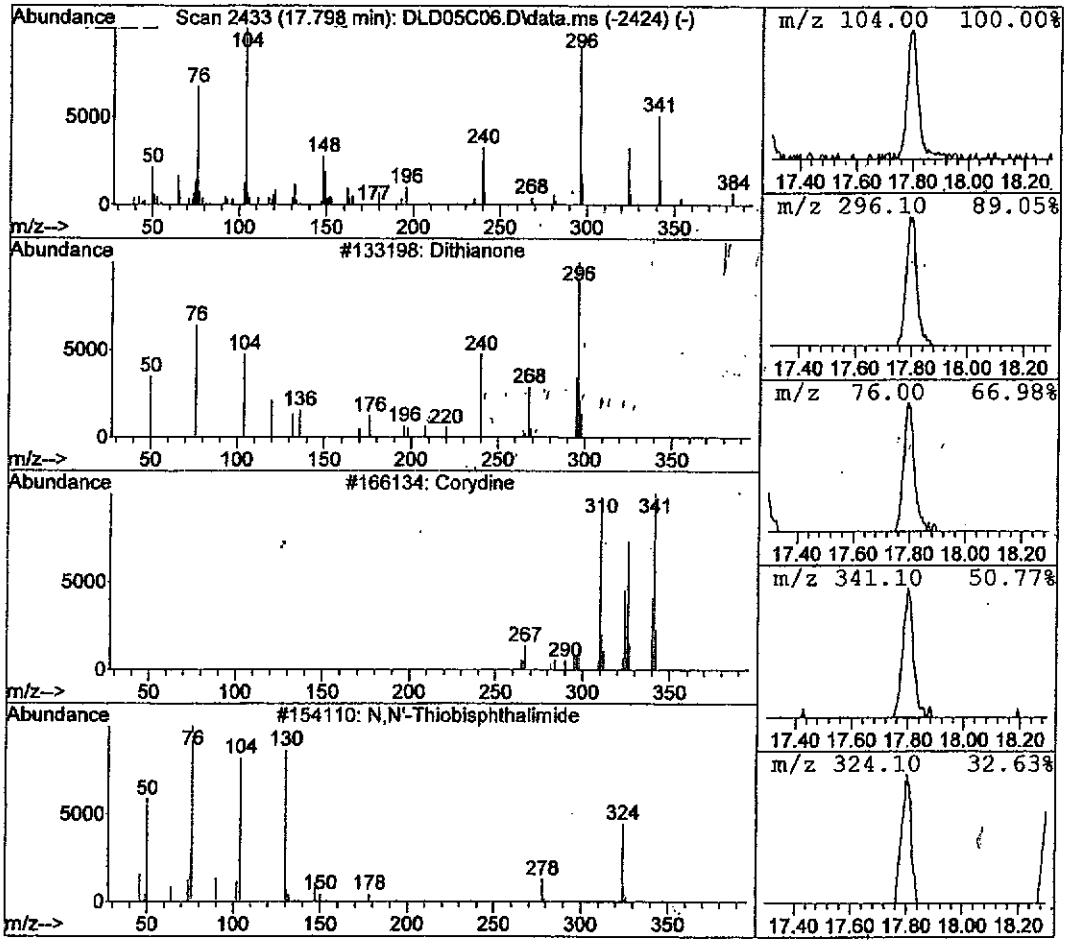
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD05C06.D Vial: 5
Acq On : 08/12/2011 11:16 Operator: RAH
Sample : 1122167006 E5KT0 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.80	2.99 ug/ml	88863	Perylene-d12	594603

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dithianone	133198	003347-22-6	38.00
2	Corydine	166134	000476-69-7	25.00
3	N,N'-Thiobisphthalimide	154110	007764-29-6	18.00
4	4H-1-Benzothiopyran-4-one, 2,3-dihy	56940	019446-96-9	18.00
5	Estra-1,3,5(10),6-tetraen-17-one, 3	133779	001818-09-3	14.00



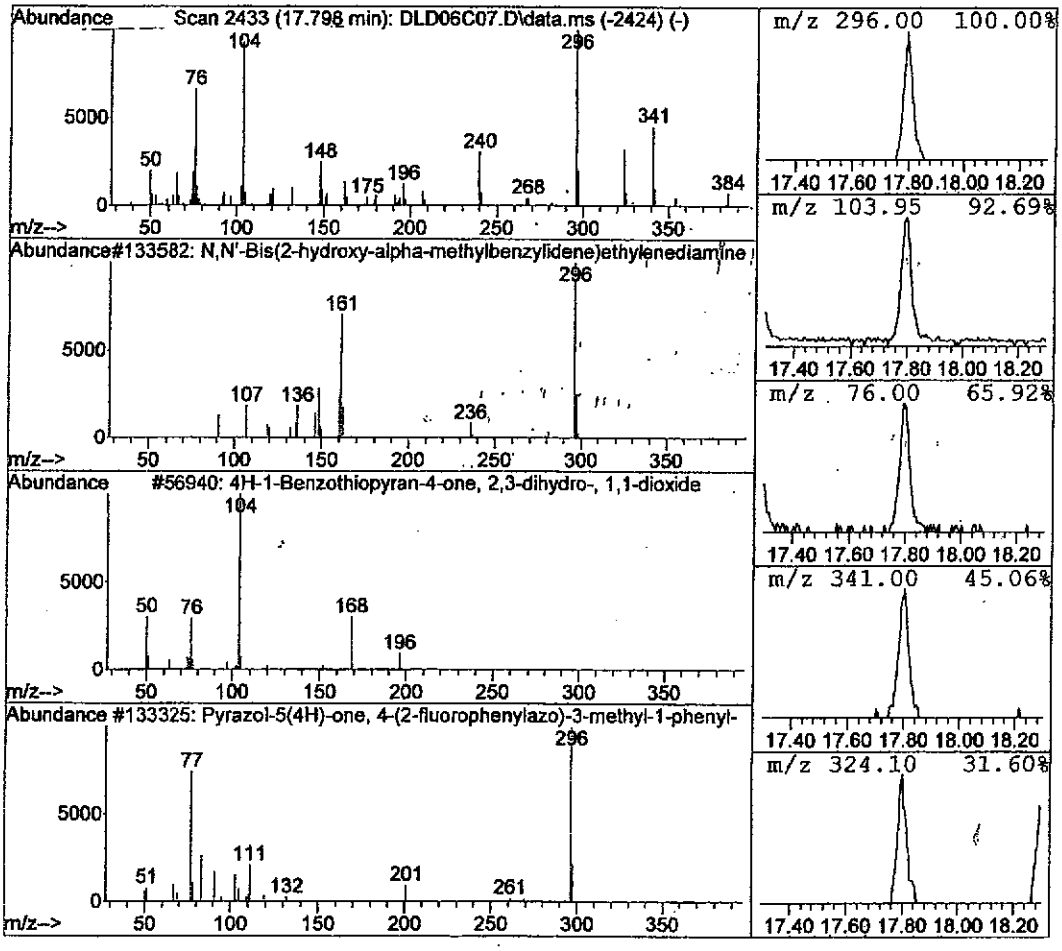
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD06C07.D Vial: 6
Acq On : 08/12/2011 11:45 Operator: RAH
Sample : 1122167007 E5KT1 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.80	2.18 ug/ml	80747	Perylene-d12	741474

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N,N'-Bis(2-hydroxy-alpha-methylbenz	133582	005464-60-8	25.00
2	4H-1-Benzothiopyran-4-one, 2,3-dihy	56940	019446-96-9	18.00
3	Pyrazol-5(4H)-one, 4-(2-fluoropheny	133325	125910-81-8	14.00
4	Benzoic acid, 4-[[[4-(dimethylamino	133598	020534-73-0	14.00
5	2-Imidazolidinone, 1,3-dimethyl-5,5	133445	016116-32-8	14.00



00268

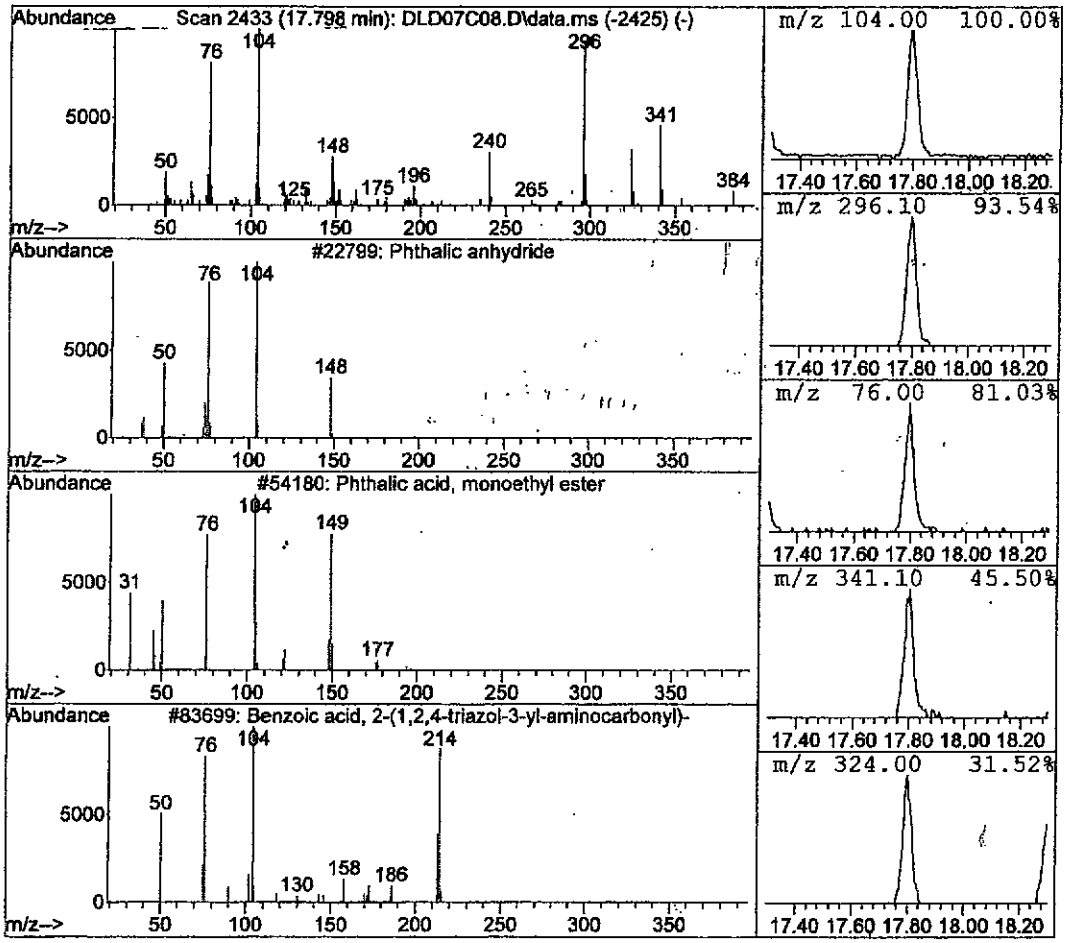
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD07C08.D Vial: 7
Acq On : 08/12/2011 12:13 Operator: RAH
Sample : 1122167008 E5KT2 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.80	2.92 ug/ml	112464	Perylene-d12	769425

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22799	000085-44-9	40.00
2	Phthalic acid, monoethyl ester	54180	002306-33-4	40.00
3	Benzoic acid, 2-(1,2,4-triazol-3-yl	83699	1000295-12-4	33.00
4	2-Formyl-1-methoxy-6-phthalimidomet	175426	1000214-58-4	33.00
5	Ethane-1,2-diimine, N,N'-bis(2H-1,3	169069	100334-26-7	33.00



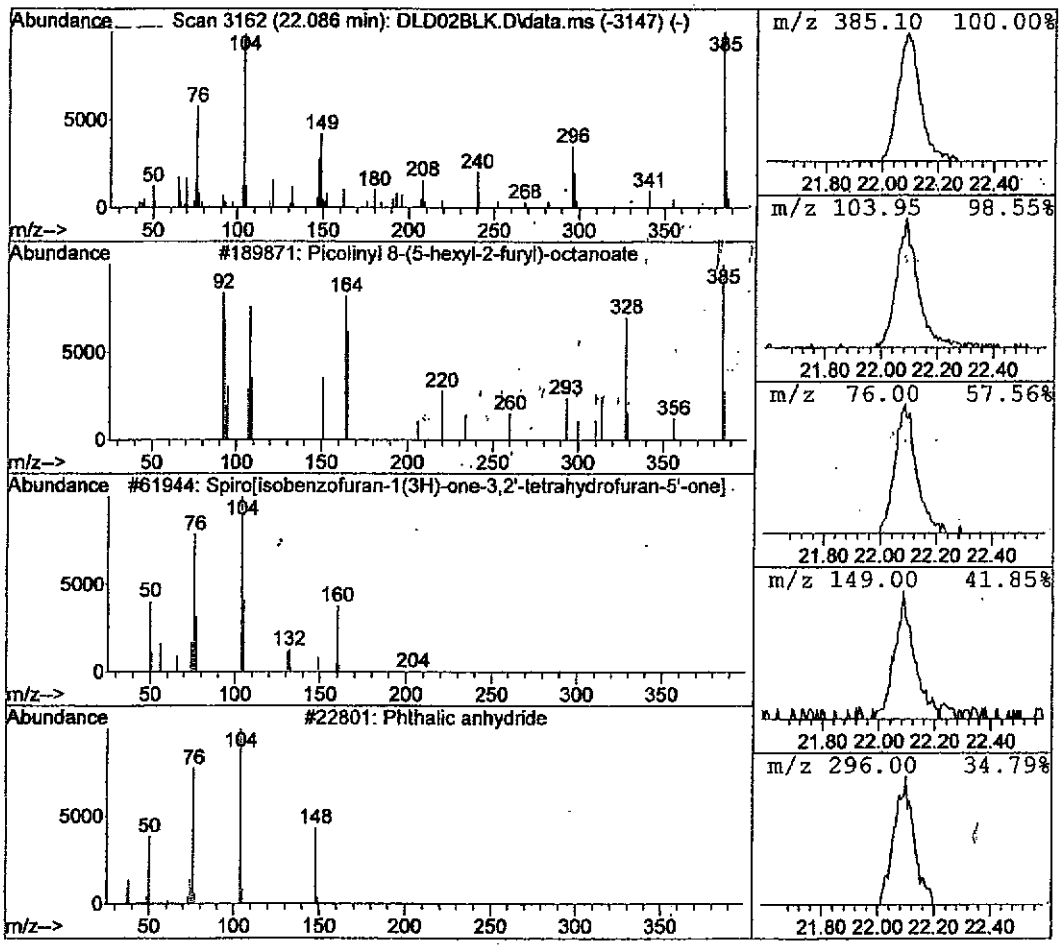
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD02BLK.D Vial: 2
Acq On : 08/12/2011 09:49 Operator: RAH
Sample : 232055 SBLK55 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.09	6.88 ug/ml	203857	Perylene-d12	593037

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	189871	1000335-93-0	14.00
2	Spiro[isobenzofuran-1(3H)-one-3,2'-	61944	054103-04-7	12.00
3	Phthalic anhydride	22801	000085-44-9	12.00
4	3-Phenylpropionic acid, 2-methoxyet	65329	1000331-05-3	11.00
5	[2.2]Paracyclophane	65735	001633-22-3	11.00



00497

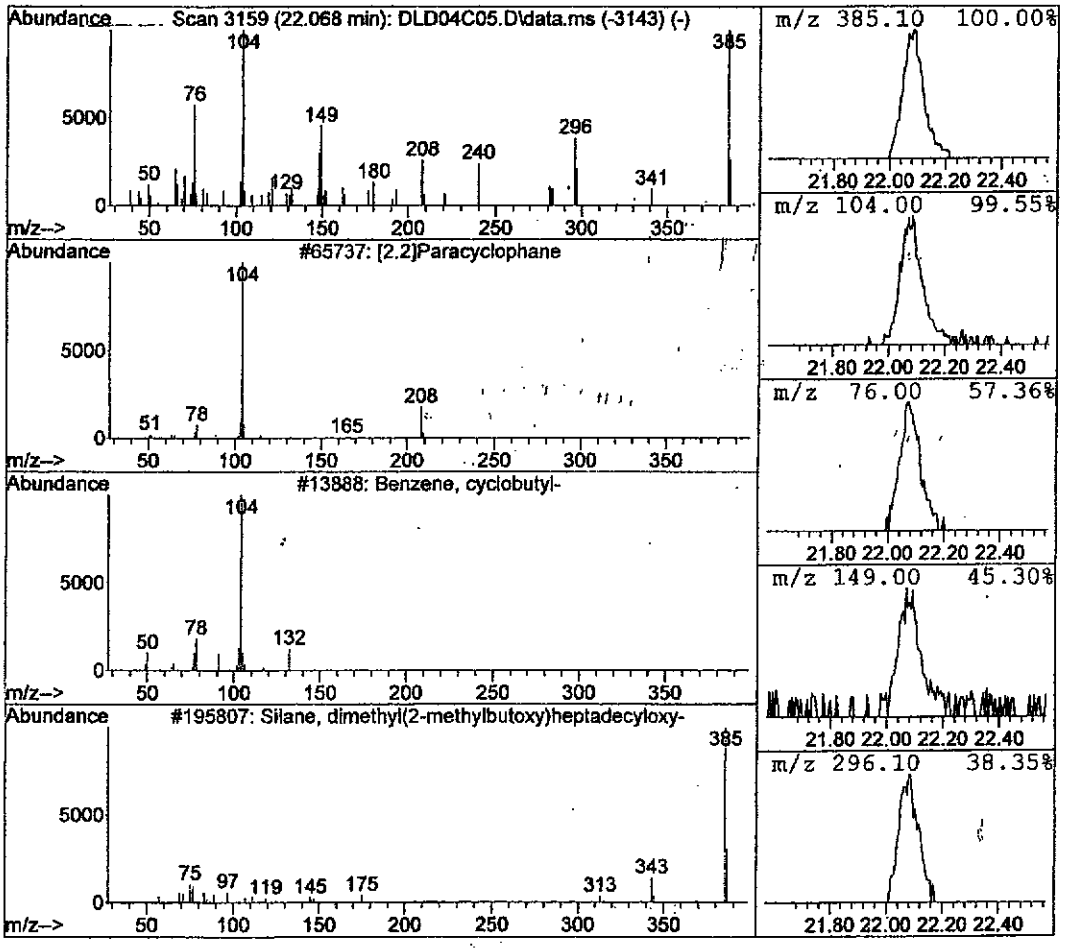
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD04C05.D Vial: 4
Acq On : 08/12/2011 10:47 Operator: RAH
Sample : 1122167005 E5KS9 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	2.79 ug/ml	94303	Perylene-d12	675606

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[2.2]Paracyclophane	65737	001633-22-3	10.00
2	Benzene, cyclobutyl-	13888	004392-30-7	10.00
3	Silane, dimethyl(2-methylbutoxy)hep	195807	1000347-02-9	10.00
4	b-Homomorphinan-7-one,5,6,8,14-tetr	189742	1000149-06-7	10.00
5	Phthalic anhydride	22801	000085-44-9	10.00



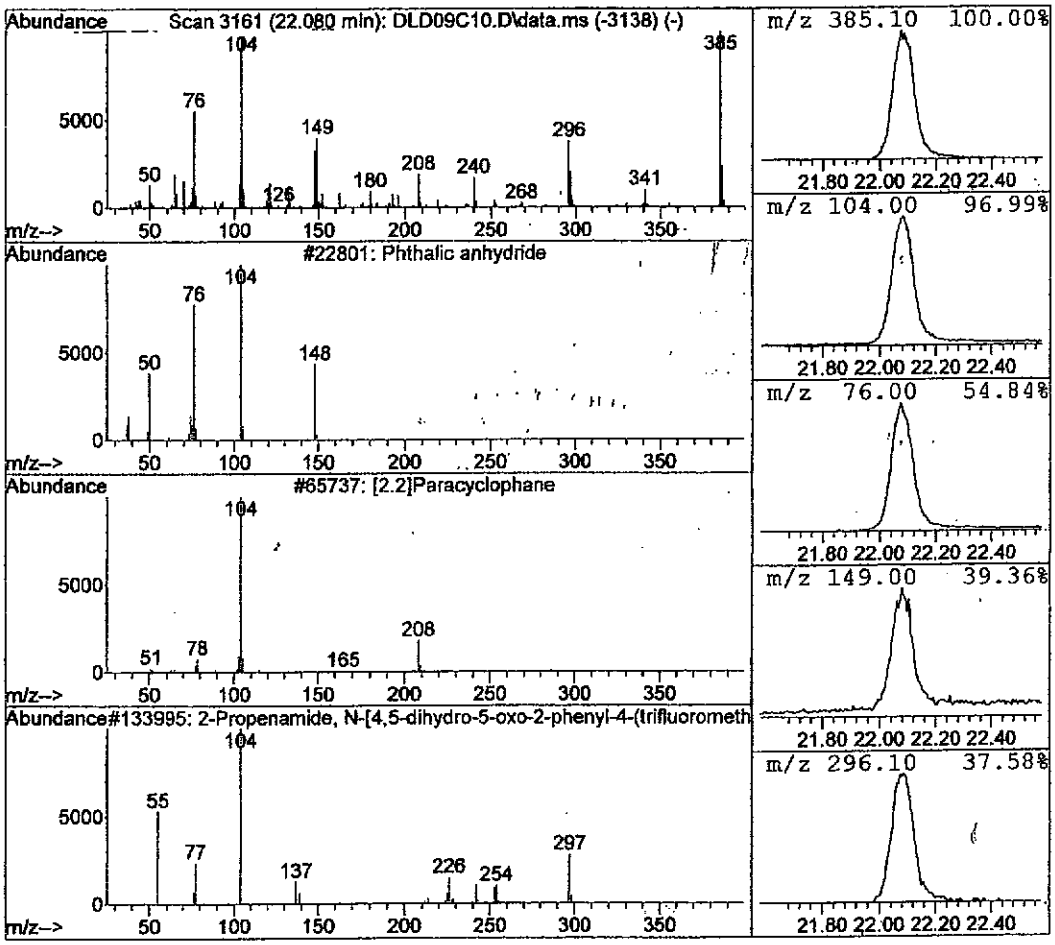
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD09C10.D Vial: 9
Acq On : 08/12/2011 13:11 Operator: RAH
Sample : 1122167010 E5KT4 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.08	25.36 ug/ml	814925	Perylene-d12	642597

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22801	000085-44-9	22.00
2	[2.2]Paracyclophane	65737	001633-22-3	15.00
3	2-Propenamide, N-[4,5-dihydro-5-oxo	133995	1000350-88-9	14.00
4	Phthalic acid, monoethyl ester	54177	002306-33-4	12.00
5	Indan-1,2,3-trione	30834	000938-24-9	12.00



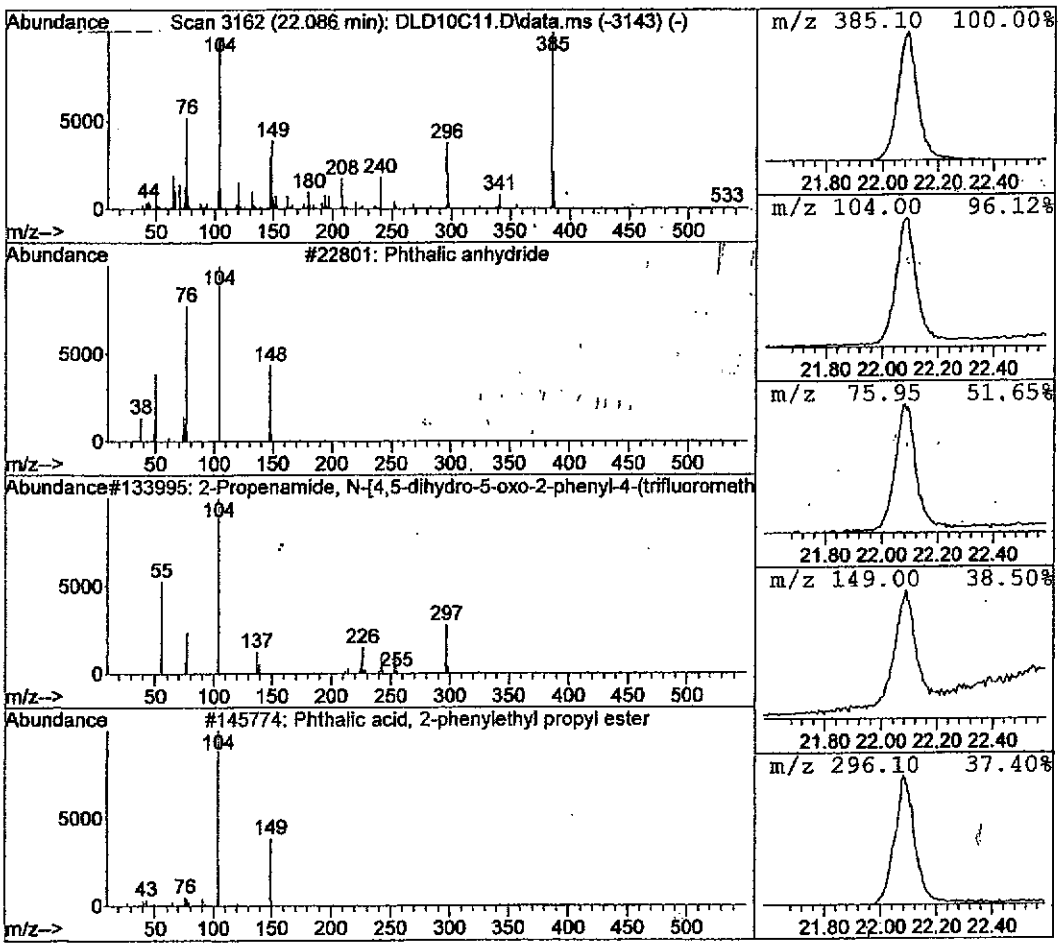
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\DLD10C11.D Vial: 10
Acq On : 08/12/2011 13:40 Operator: RAH
Sample : 1122167011 E5KT5 Inst : 5975-D
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.09	19.08 ug/ml	828482	Perylene-d12	868641

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22801	000085-44-9	16.00
2	2-Propenamide, N-[4,5-dihydro-5-oxo	133995	1000350-88-9	14.00
3	Phthalic acid, 2-phenylethyl propyl	145774	1000309-77-1	12.00
4	Spiro[isobenzofuran-1(3H)-one-3,2'-	61944	054103-04-7	12.00
5	Naphthalene, 1,2,3,4-tetrahydro-2-p	65764	029422-13-7	11.00



00347

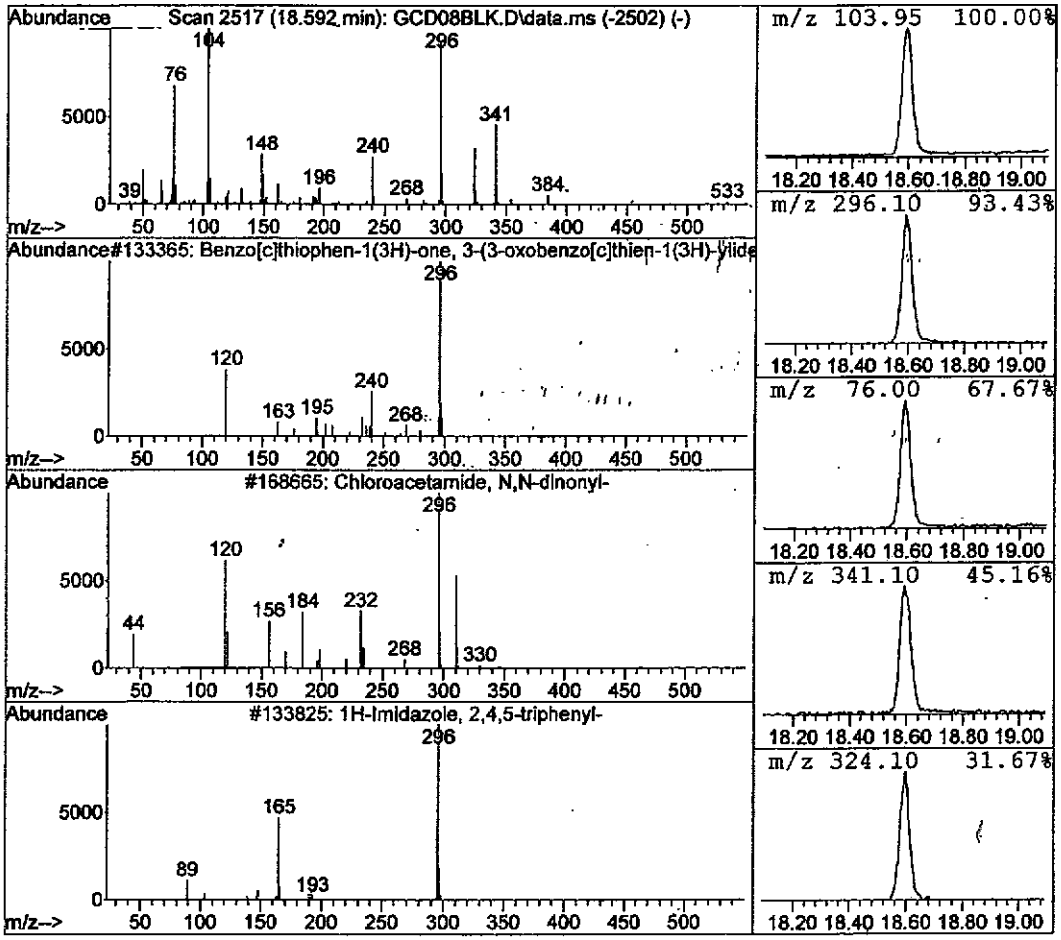
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\GCD08BLK.D Vial: 6
Acq On : 08/16/2011 14:37 Operator: RAH
Sample : 232494 SBLK94 Inst : 5975-G
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.59	4.69 ug/ml	374315	Perylene-d12	1595206

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	133365	023667-32-5	22.00
2	Chloroacetamide, N,N-dinonyl-	168665	1000308-48-1	18.00
3	1H-Imidazole, 2,4,5-triphenyl-	133825	000484-47-9	14.00
4	Xanthine, 1,3-dimethyl-8-[2-[2-meth	133332	1000129-52-7	14.00
5	Phthalic acid, monoethyl ester	54180	002306-33-4	12.00



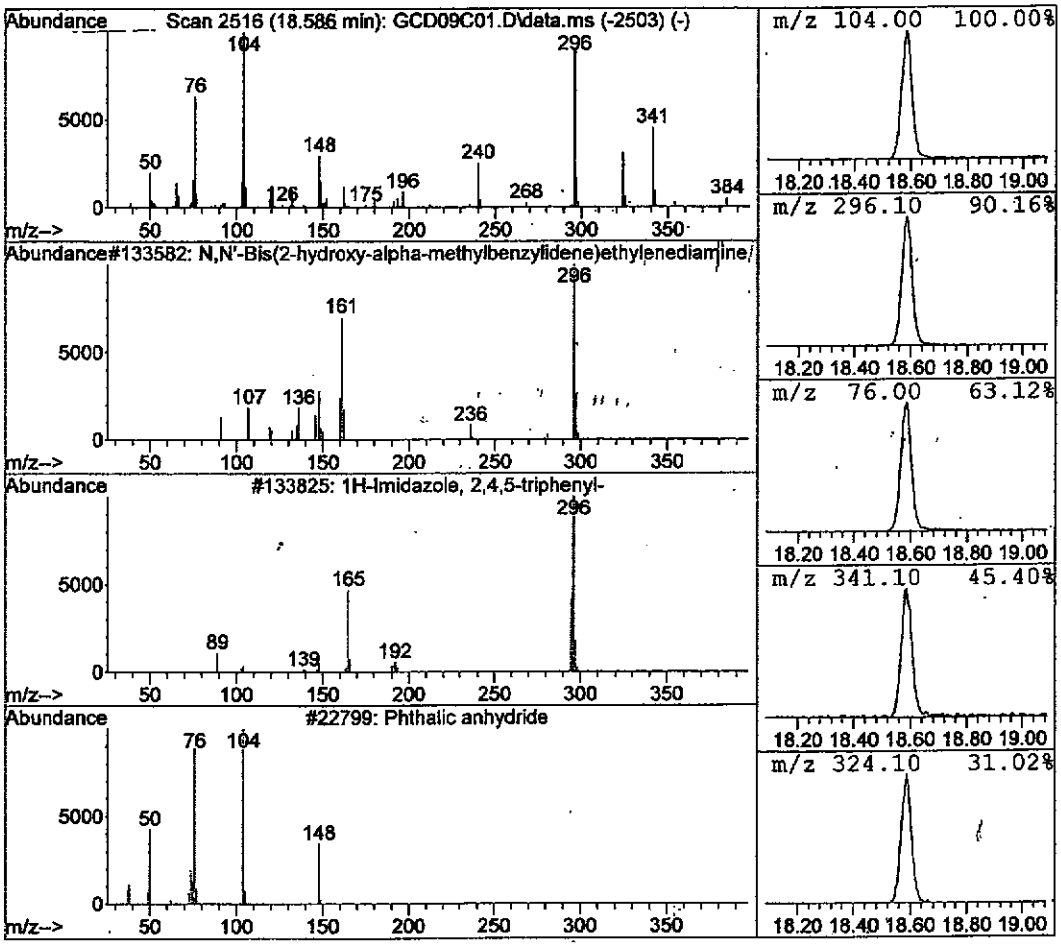
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\GCD09C01.D Vial: 7
Acq On : 08/16/2011 15:07 Operator: RAH
Sample : 1122348001 E5KS7 Inst : 5975-G
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.59	6.13 ug/ml	514123	Perylene-d12	1678104

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N,N'-Bis(2-hydroxy-alpha-methylbenz	133582	005464-60-8	18.00
2	1H-Imidazole, 2,4,5-triphenyl-	133825	000484-47-9	18.00
3	Phthalic anhydride	22799	000085-44-9	16.00
4	Indan-1,3-dione, 2-methylimine, N-o	50912	1000284-23-9	12.00
5	Terephthalic acid, hexyl 2-phenylet	174083	1000323-78-0	10.00



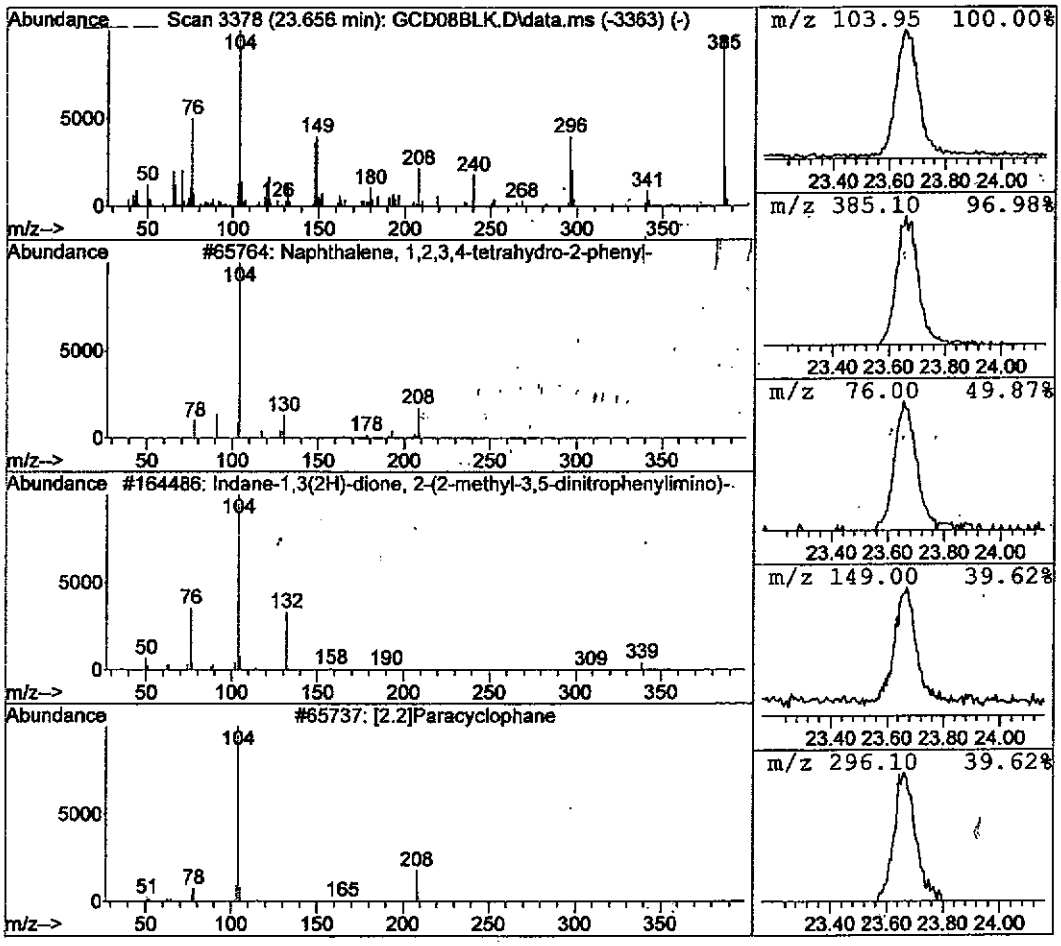
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\GCD08BLK.D Vial: 6
Acq On : 08/16/2011 14:37 Operator: RAH
Sample : 232494 SBLK94 Inst : 5975-G
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.66	3.95 ug/ml	315105	Perylene-d12	1595206

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-2-p	65764	029422-13-7	11.00
2	Indane-1,3(2H)-dione, 2-(2-methyl-3	164486	1000263-60-8	10.00
3	[2.2]Paracyclophane	65737	001633-22-3	10.00
4	Cyclobutane, 1,2-diphenyl-	65741	003018-21-1	10.00
5	Benzene, 1,1'-(1,2-cyclobutanediyl)	65776	020071-09-4	9.00



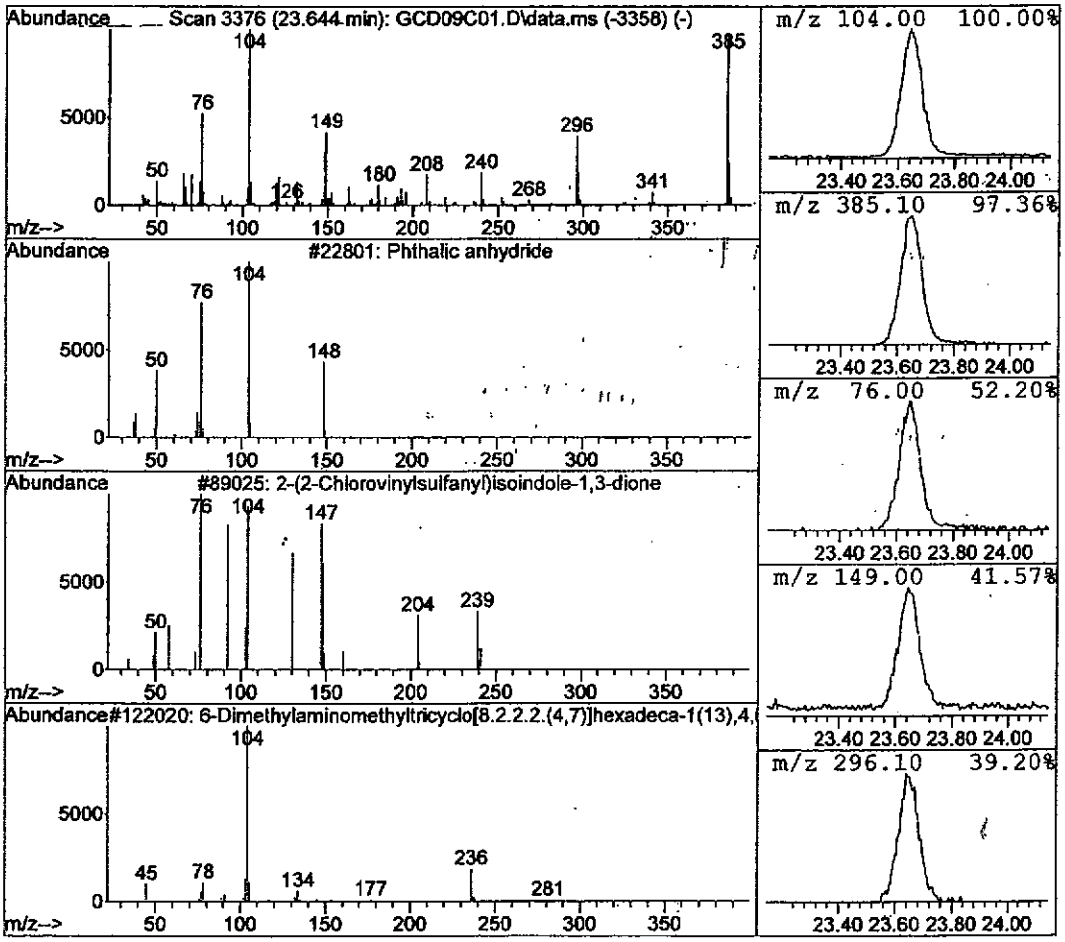
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\GCD09C01.D Vial: 7
Acq On : 08/16/2011 15:07 Operator: RAH
Sample : 1122348001 E5KS7 Inst : 5975-G
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.64	5.69 ug/ml	477729	Perylene-d12	1678104

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22801	000085-44-9	16.00
2	2-(2-Chlorovinylsulfanyl)isoindole-	89025	1000306-58-3	14.00
3	6-Dimethylaminomethyltricyclo[8.2.2	122020	1000306-67-8	11.00
4	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	189662	104576-48-9	10.00
5	Picolinyl 8-(5-hexyl-2-furyl)-octan	189871	1000335-93-0	10.00



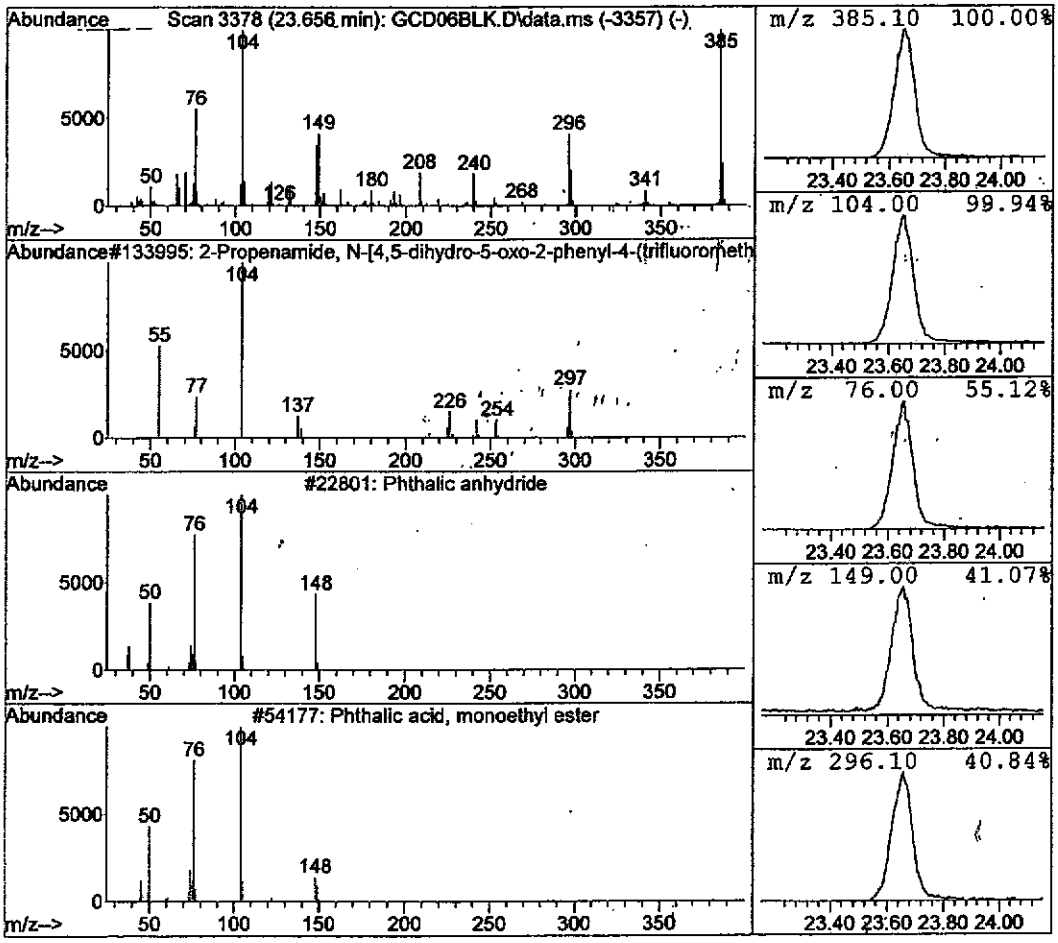
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\GCD06BLK.D Vial: 4
Acq On : 08/16/2011 13:58 Operator: RAH
Sample : 232495 SBLK95 Inst : 5975-G
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.66	16.18 ug/ml	1177071	Perylene-d12	1455070

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propenamide, N-[4,5-dihydro-5-oxo	133995	1000350-88-9	14.00
2	Phthalic anhydride	22801	000085-44-9	12.00
3	Phthalic acid, monoethyl ester	54177	002306-33-4	12.00
4	2-Pentanone, 5-phenyl-	31499	002235-83-8	10.00
5	[2.2]Paracyclophane	65735	001633-22-3	10.00



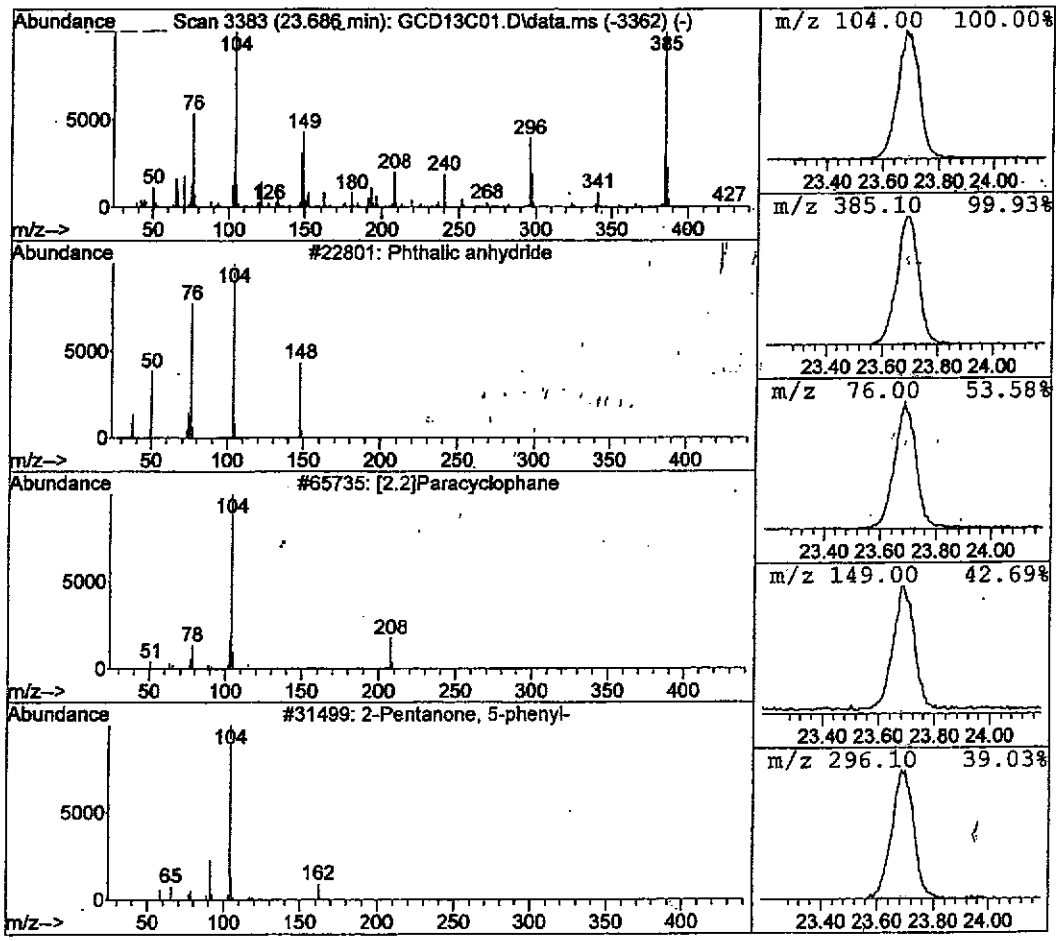
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KS7\GCD13C01.D Vial: 5
Acq On : 08/16/2011 17:10 Operator: RAH
Sample : 1122352001 E5KT6 Inst : 5975-G
Misc : . WATER SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	19.95 ug/ml	1304210	Perylene-d12	1307334

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22801	000085-44-9	12.00
2	[2.2]Paracyclophane	65735	001633-22-3	11.00
3	2-Pentanone, 5-phenyl-	31499	002235-83-8	10.00
4	Benzenemethanamine, 2-methyl-	9527	000089-93-0	10.00
5	3-Phenylpropionic acid, 2-methoxyet	65329	1000331-05-3	10.00



Controlled Document

ESAT5.315.00041

ACH
9-29-11

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 9/22/11

SUBJECT: Review of Data
Received for review on 9/2/11

FROM: Timothy Prendiville, Supervisor, Chief (SR-6J)
Superfund Contract Management Section

TO: Data User: OEPA
Email address: victoria.sigler@epa.state.oh.us

LEVEL 3 DATA VALIDATION

We have reviewed the data for the following case:

SITE NAME: Clyde Dump (OH)

CASE NUMBER: 41647 **SDG NUMBER:** ME5KS7

Number and Type of Samples: 10 waters

Sample Numbers: ME5KS7-S9, T0-T6

Laboratory: Chemtech **Hrs. for Review:** 9.0

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Ten (10) water samples, numbered ME5KS7-S9, T0-T6, were collected on August 8-10, 2011. The lab received the samples on August 9-11, 2011 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ISM01.2 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.

EXES flagged all cyanide samples J-/R for improper preservation. In the EXES Superset Deliverable file, the pH entered was 2 for all analytes. The pH for cyanide should be entered in as 12. There is nothing in place for this reviewer to make the proper changes to the Superset Deliverable file. The flags for improper preservation have been removed from this reviewers report.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibrations.

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 "J+".

Arsenic
ME5KS7, ME5KS8, ME5KS9, ME5KT0, ME5KT1, ME5KT2, ME5KT3, ME5KT4, ME5KT5

Chromium
ME5KS8, ME5KT1, ME5KT4

Iron
ME5KS8, ME5KS9, ME5KT0, ME5KT1

Thallium
ME5KT0, ME5KT6

Vanadium
ME5KS7, ME5KS8, ME5KS9, ME5KT0, ME5KT4, ME5KT5, ME5KT6

No samples were identified as field blanks.

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:

No defects were found for the serial dilution or ICS samples.

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".

Aluminum
ME5KS7, ME5KS8, ME5KS9, ME5KT0, ME5KT1, ME5KT3, ME5KT4

Antimony
ME5KT6

Barium
ME5KS7, ME5KS8, ME5KS9, ME5KT0, ME5KT1, ME5KT2, ME5KT3, ME5KT4, ME5KT5

Beryllium
ME5KT6

Cadmium
ME5KS8, ME5KT2

Cobalt
ME5KS8, ME5KS9, ME5KT0, ME5KT1, ME5KT2, ME5KT4, ME5KT5

Copper
ME5KT2, ME5KT5

Lead
ME5KS7, ME5KS8, ME5KS9, ME5KT1, ME5KT2, ME5KT5

Manganese
ME5KT0, ME5KT1

Nickel
ME5KS7, ME5KS8, ME5KS9, ME5KT0, ME5KT1, ME5KT2, ME5KT3, ME5KT4, ME5KT5

Potassium
ME5KS7

Silver
ME5KT6

Zinc
ME5KS7, ME5KS8, ME5KS9, ME5KT0, ME5KT1, ME5KT2, ME5KT3, ME5KT4, ME5KT5

Cyanide
ME5KS8, ME5KT1, ME5KT3, ME5KT4, ME5KT6

All data, except those qualified above, are acceptable.

EXES ISM01.2 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.

Sample Summary Report

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KS7	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-1	pH:	2	Sample Date:	08082011	Sample Time:	15:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KS7	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-1	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	90.2	ug/L	1	J	J	Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	10.0	ug/L	1	J	U	Yes	S2BVE
Barium	37.7	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	5.0	ug/L	1	U	U	Yes	S2BVE
Calcium	64100	ug/L	1			Yes	S2BVE
Chromium	10.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	50.0	ug/L	1	U	U	Yes	S2BVE
Copper	25.0	ug/L	1	U	U	Yes	S2BVE
Iron	258	ug/L	1			Yes	S2BVE
Lead	1.3	ug/L	1	J	J	Yes	S2BVE
Magnesium	13500	ug/L	1			Yes	S2BVE
Manganese	42.2	ug/L	1			Yes	S2BVE
Nickel	2.4	ug/L	1	J	J	Yes	S2BVE
Potassium	4710	ug/L	1	J	J	Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	44700	ug/L	1			Yes	S2BVE
Thallium	25.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	J	U	Yes	S2BVE
Zinc	5.6	ug/L	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KS7	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-1	pH:	2	Sample Date:	08082011	Sample Time:	15:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KS7D	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	2	Sample Date:	08082011	Sample Time:	15:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KS7D	Method: CN	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-1	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	3.0	ug/L	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KS7D	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	94.1	ug/L	1	J	J	Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	10.0	ug/L	1	J	U	Yes	S2BVE
Barium	38.0	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	5.0	ug/L	1	U	U	Yes	S2BVE
Calcium	64700	ug/L	1			Yes	S2BVE
Chromium	10.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	50.0	ug/L	1	U	U	Yes	S2BVE
Copper	25.0	ug/L	1	U	U	Yes	S2BVE
Iron	272	ug/L	1			Yes	S2BVE
Lead	1.7	ug/L	1	J	J	Yes	S2BVE
Magnesium	13400	ug/L	1			Yes	S2BVE
Manganese	43.0	ug/L	1			Yes	S2BVE
Nickel	3.7	ug/L	1	J	J	Yes	S2BVE
Potassium	4730	ug/L	1	J	J	Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	45100	ug/L	1			Yes	S2BVE
Thallium	25.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	J	U	Yes	S2BVE
Zinc	5.5	ug/L	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KS7S	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-1	pH:	2	Sample Date:	08082011	Sample Time:	15:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	105	ug/L	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KS7S	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.92	ug/L	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KS7S	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	1870	ug/L	1			Yes	S2BVE
Antimony	93.2	ug/L	1			Yes	S2BVE
Arsenic	42.2	ug/L	1			Yes	S2BVE
Barium	1770	ug/L	1			Yes	S2BVE
Beryllium	44.0	ug/L	1			Yes	S2BVE
Cadmium	47.5	ug/L	1			Yes	S2BVE
Chromium	178	ug/L	1			Yes	S2BVE
Cobalt	426	ug/L	1			Yes	S2BVE
Copper	241	ug/L	1			Yes	S2BVE
Iron	1220	ug/L	1			Yes	S2BVE
Lead	20.1	ug/L	1			Yes	S2BVE
Manganese	512	ug/L	1			Yes	S2BVE
Nickel	438	ug/L	1			Yes	S2BVE
Selenium	48.8	ug/L	1			Yes	S2BVE
Silver	43.7	ug/L	1			Yes	S2BVE
Thallium	52.9	ug/L	1			Yes	S2BVE
Vanadium	443	ug/L	1			Yes	S2BVE
Zinc	479	ug/L	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KS8	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-2	pH: 2	Sample Date: 08082011	Sample Time: 11:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	114	ug/L	1	J	J	Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	10.0	ug/L	1	J	U	Yes	S2BVE
Barium	35.5	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	0.12	ug/L	1	J	J	Yes	S2BVE
Calcium	74700	ug/L	1			Yes	S2BVE
Chromium	10.0	ug/L	1	J	U	Yes	S2BVE
Cobalt	12.2	ug/L	1	J	J	Yes	S2BVE
Copper	25.0	ug/L	1	U	U	Yes	S2BVE
Iron	144	ug/L	1		J+	Yes	S2BVE
Lead	1.9	ug/L	1	J	J	Yes	S2BVE
Magnesium	11000	ug/L	1			Yes	S2BVE
Manganese	16.7	ug/L	1			Yes	S2BVE
Nickel	12.5	ug/L	1	J	J	Yes	S2BVE
Potassium	25000	ug/L	1			Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	128000	ug/L	1			Yes	S2BVE
Thallium	25.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	J	U	Yes	S2BVE
Zinc	45.1	ug/L	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KS8	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-2	pH:	2	Sample Date:	08082011	Sample Time:	11:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	5.1	ug/L	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KS8	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-2	pH: 2	Sample Date: 08082011	Sample Time: 11:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KS9	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-3	pH:	2	Sample Date:	08082011	Sample Time:	13:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KS9	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-3	pH: 2	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	105	ug/L	1	J	J	Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	10.0	ug/L	1	J	U	Yes	S2BVE
Barium	35.7	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	5.0	ug/L	1	U	U	Yes	S2BVE
Calcium	74600	ug/L	1			Yes	S2BVE
Chromium	10.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	12.6	ug/L	1	J	J	Yes	S2BVE
Copper	25.0	ug/L	1	U	U	Yes	S2BVE
Iron	140	ug/L	1		J+	Yes	S2BVE
Lead	1.5	ug/L	1	J	J	Yes	S2BVE
Magnesium	10900	ug/L	1			Yes	S2BVE
Manganese	15.3	ug/L	1			Yes	S2BVE
Nickel	12.0	ug/L	1	J	J	Yes	S2BVE
Potassium	25200	ug/L	1			Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	130000	ug/L	1			Yes	S2BVE
Thallium	25.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	J	U	Yes	S2BVE
Zinc	35.6	ug/L	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KS9	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-3	pH:	2	Sample Date:	08082011	Sample Time:	13:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KT0	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-4	pH:	2	Sample Date:	08082011	Sample Time:	10:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT0	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-4	pH: 2	Sample Date: 08082011	Sample Time: 10:15:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	72.1	ug/L	1	J	J	Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	10.0	ug/L	1	J	U	Yes	S2BVE
Barium	34.1	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	5.0	ug/L	1	U	U	Yes	S2BVE
Calcium	71800	ug/L	1			Yes	S2BVE
Chromium	10.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	11.6	ug/L	1	J	J	Yes	S2BVE
Copper	25.0	ug/L	1	U	U	Yes	S2BVE
Iron	100	ug/L	1	J	U	Yes	S2BVE
Lead	10.0	ug/L	1	U	U	Yes	S2BVE
Magnesium	10600	ug/L	1			Yes	S2BVE
Manganese	11.0	ug/L	1	J	J	Yes	S2BVE
Nickel	11.5	ug/L	1	J	J	Yes	S2BVE
Potassium	24600	ug/L	1			Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	124000	ug/L	1			Yes	S2BVE
Thallium	25.0	ug/L	1	J	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	J	U	Yes	S2BVE
Zinc	30.0	ug/L	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT0	Method: CN	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-4	pH: 2	Sample Date: 08082011	Sample Time: 10:15:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT1	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-5	pH: 2	Sample Date: 08082011	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	78.4	ug/L	1	J	J	Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	10.0	ug/L	1	J	U	Yes	S2BVE
Barium	35.3	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	5.0	ug/L	1	U	U	Yes	S2BVE
Calcium	74000	ug/L	1			Yes	S2BVE
Chromium	10.0	ug/L	1	J	U	Yes	S2BVE
Cobalt	11.6	ug/L	1	J	J	Yes	S2BVE
Copper	25.0	ug/L	1	U	U	Yes	S2BVE
Iron	101	ug/L	1		J+	Yes	S2BVE
Lead	1.5	ug/L	1	J	J	Yes	S2BVE
Magnesium	10900	ug/L	1			Yes	S2BVE
Manganese	11.8	ug/L	1	J	J	Yes	S2BVE
Nickel	13.1	ug/L	1	J	J	Yes	S2BVE
Potassium	25500	ug/L	1			Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	129000	ug/L	1			Yes	S2BVE
Thallium	25.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	U	U	Yes	S2BVE
Zinc	31.3	ug/L	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT1	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-5	pH: 2	Sample Date: 08082011	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT1	Method: CN	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-5	pH: 2	Sample Date: 08082011	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	3.5	ug/L	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT2	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-6	pH: 2	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT2	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-6	pH: 2	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	523	ug/L	1			Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	10.0	ug/L	1	J	U	Yes	S2BVE
Barium	54.8	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	0.15	ug/L	1	J	J	Yes	S2BVE
Calcium	77000	ug/L	1			Yes	S2BVE
Chromium	10.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	14.0	ug/L	1	J	J	Yes	S2BVE
Copper	10.6	ug/L	1	J	J	Yes	S2BVE
Iron	1350	ug/L	1			Yes	S2BVE
Lead	4.4	ug/L	1	J	J	Yes	S2BVE
Magnesium	12600	ug/L	1			Yes	S2BVE
Manganese	160	ug/L	1			Yes	S2BVE
Nickel	13.6	ug/L	1	J	J	Yes	S2BVE
Potassium	25500	ug/L	1			Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	130000	ug/L	1			Yes	S2BVE
Thallium	25.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	U	U	Yes	S2BVE
Zinc	55.5	ug/L	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT2	Method: CN	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-6	pH: 2	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	27.1	ug/L	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KT3	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-7	pH:	2	Sample Date:	08082011	Sample Time:	14:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	4.6	ug/L	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT3	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-7	pH: 2	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	92.0	ug/L	1	J	J	Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	10.0	ug/L	1	J	U	Yes	S2BVE
Barium	43.8	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	5.0	ug/L	1	U	U	Yes	S2BVE
Calcium	70500	ug/L	1			Yes	S2BVE
Chromium	10.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	50.0	ug/L	1	U	U	Yes	S2BVE
Copper	25.0	ug/L	1	U	U	Yes	S2BVE
Iron	278	ug/L	1			Yes	S2BVE
Lead	10.0	ug/L	1	U	U	Yes	S2BVE
Magnesium	13300	ug/L	1			Yes	S2BVE
Manganese	56.0	ug/L	1			Yes	S2BVE
Nickel	3.1	ug/L	1	J	J	Yes	S2BVE
Potassium	5950	ug/L	1			Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	79700	ug/L	1			Yes	S2BVE
Thallium	25.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	U	U	Yes	S2BVE
Zinc	10.5	ug/L	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KT3	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-7	pH:	2	Sample Date:	08082011	Sample Time:	14:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM

Sample Number:	ME5KT4	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-8	pH:	2	Sample Date:	08082011	Sample Time:	14:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	5.2	ug/L	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KT4	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	SW-8	pH:	2	Sample Date:	08082011	Sample Time:	14:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT4	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: SW-8	pH: 2	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	136	ug/L	1	J	J	Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	10.0	ug/L	1	J	U	Yes	S2BVE
Barium	34.6	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	5.0	ug/L	1	U	U	Yes	S2BVE
Calcium	74100	ug/L	1			Yes	S2BVE
Chromium	10.0	ug/L	1	J	U	Yes	S2BVE
Cobalt	12.9	ug/L	1	J	J	Yes	S2BVE
Copper	25.0	ug/L	1	U	U	Yes	S2BVE
Iron	185	ug/L	1			Yes	S2BVE
Lead	10.0	ug/L	1	U	U	Yes	S2BVE
Magnesium	10700	ug/L	1			Yes	S2BVE
Manganese	18.1	ug/L	1			Yes	S2BVE
Nickel	13.8	ug/L	1	J	J	Yes	S2BVE
Potassium	24900	ug/L	1			Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	130000	ug/L	1			Yes	S2BVE
Thallium	25.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	J	U	Yes	S2BVE
Zinc	35.9	ug/L	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT5	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: L-9	pH: 2	Sample Date: 08082011	Sample Time: 13:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	3820	ug/L	1			Yes	S2BVE
Antimony	60.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	18.6	ug/L	1		J+	Yes	S2BVE
Barium	23.5	ug/L	1	J	J	Yes	S2BVE
Beryllium	5.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	5.0	ug/L	1	U	U	Yes	S2BVE
Calcium	18000	ug/L	1			Yes	S2BVE
Chromium	67.1	ug/L	1			Yes	S2BVE
Cobalt	0.82	ug/L	1	J	J	Yes	S2BVE
Copper	12.3	ug/L	1	J	J	Yes	S2BVE
Iron	896	ug/L	1			Yes	S2BVE
Lead	2.8	ug/L	1	J	J	Yes	S2BVE
Magnesium	16900	ug/L	1			Yes	S2BVE
Manganese	84.8	ug/L	1			Yes	S2BVE
Nickel	5.7	ug/L	1	J	J	Yes	S2BVE
Potassium	35700	ug/L	1			Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	10.0	ug/L	1	U	U	Yes	S2BVE
Sodium	416000	ug/L	10			Yes	S2BVE
Thallium	25.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	J	U	Yes	S2BVE
Zinc	6.8	ug/L	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KT5	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	L-9	pH:	2	Sample Date:	08082011	Sample Time:	13:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	U	U	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KT5	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	L-9	pH:	2	Sample Date:	08082011	Sample Time:	13:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.7	ug/L	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KT6	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	L-10	pH:	2	Sample Date:	08102011	Sample Time:	13:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	7.5	ug/L	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KS7	Lab Code: CHEM
Sample Number: ME5KT6	Method: ICP_AES	Matrix: Water	MA Number: DEFAULT
Sample Location: L-10	pH: 2	Sample Date: 08102011	Sample Time: 13:40:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	22300	ug/L	1			Yes	S2BVE
Antimony	17.4	ug/L	1	J	J	Yes	S2BVE
Arsenic	102	ug/L	1			Yes	S2BVE
Barium	1310	ug/L	1			Yes	S2BVE
Beryllium	3.9	ug/L	1	J	J	Yes	S2BVE
Cadmium	9.8	ug/L	1			Yes	S2BVE
Calcium	359000	ug/L	1			Yes	S2BVE
Chromium	75.0	ug/L	1			Yes	S2BVE
Cobalt	78.6	ug/L	1			Yes	S2BVE
Copper	728	ug/L	1			Yes	S2BVE
Iron	155000	ug/L	1			Yes	S2BVE
Lead	2050	ug/L	1			Yes	S2BVE
Magnesium	82300	ug/L	1			Yes	S2BVE
Manganese	7020	ug/L	1			Yes	S2BVE
Nickel	239	ug/L	1			Yes	S2BVE
Potassium	121000	ug/L	1			Yes	S2BVE
Selenium	35.0	ug/L	1	U	U	Yes	S2BVE
Silver	3.9	ug/L	1	J	J	Yes	S2BVE
Sodium	1140000	ug/L	10			Yes	S2BVE
Thallium	25.0	ug/L	1	J	U	Yes	S2BVE
Vanadium	50.0	ug/L	1	J	U	Yes	S2BVE
Zinc	4560	ug/L	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KS7	Lab Code:	CHEM
Sample Number:	ME5KT6	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	L-10	pH:	2	Sample Date:	08102011	Sample Time:	13:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	7.6	ug/L	1	J	J	Yes	S2BVE

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No: SDG# ME5KS7 **R**

Region: 5	**Date Shipped:** 8/8/2011	**Chain of Custody Record**	**Sampler Signature:**
Project Code: TFA-102	**Carrier Name:** FedEx	**Relinquished By** / **(Date / Time)**	**Received By** / **(Date / Time)**
Account Code:	**Airbill:** 866389086541	1 8/8/11 1730	8-9-11 905
CERCLIS ID: OHD980905251	**Shipped to:** ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID: ZZ		3	
Site Name/State: Clyde Dump/OH		4	
Project Leader: Victoria Sigler			
Action: Screening Site Investigation			
Sampling Co: Ohio EPA			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
ME5KQ6	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001058 (Ice Only) (1)	SE-1	S: 8/8/2011 15:00	E5KQ6	--
ME5KQ7	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001062 (Ice Only) (1)	SE-2	S: 8/8/2011 11:15	E5KQ7	--
ME5KQ8	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001063 (Ice Only) (1)	SE-3	S: 8/8/2011 13:00	E5KQ8	--
ME5KQ9	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001067 (Ice Only) (1)	SE-4	S: 8/8/2011 10:30	E5KQ9	--
ME5KR0	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001071 (Ice Only) (1)	SE-5	S: 8/8/2011 10:40	E5KR0	Field Duplicate
ME5KR1	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001075 (Ice Only) (1)	SE-6	S: 8/8/2011 12:56	E5KR1	--
ME5KR2	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001079 (Ice Only) (1)	SE-7	S: 8/8/2011 14:05	E5KR2	--
ME5KR3	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001083 (Ice Only) (1)	SE-8	S: 8/8/2011 14:40	E5KR3	--
ME5KS7	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001259 (HNO3), 5C-001260 (NaOH) (2)	SW-1	S: 8/8/2011 15:00	E5KS7	--
ME5KS8	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001270 (HNO3), 5C-001271 (NaOH) (2)	SW-2	S: 8/8/2011 11:00	E5KS8	--
ME5KS9	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001281 (HNO3), 5C-001282 (NaOH) (2)	SW-3	S: 8/8/2011 13:00	E5KS9	--

(Except: ME5KS7, ME5KS8 & ME5KS9 all samples are in SDG# ME5KQ6)

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** ME5KQ6, ME5KS7	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 29017-29018
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** ✓
CN water = CLP Cyanide water, TM/CN/hg s = CLP TAL TM/ Hg/CN soil, TM/Hgwater = CLP TAL Total Metals/Hg water			Temp: 4°C

TR Number: 5-131260284-080811-0007

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 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

Case No: 41647
DAS No: SDG# ME5K57

R

Region:	5	Date Shipped:	8/8/2011	Chain of Custody Record	Sampler Signature:
Project Code:	TFA-102	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	866389086541	1 8/8/11 1730	8-9-11 905
CERCLIS ID:	OHD980905251	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900	2	
Spill ID:	ZZ			3	
Site Name/State:	Clyde Dump/OH			4	
Project Leader:	Victoria Sigler				
Action:	Screening Site Investigation				
Sampling Co:	Ohio EPA				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
ME5KT0	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001292 (HNO3), 5C-001293 (NaOH) (2)	SW-4	S: 8/8/2011 10:15	E5KT0	--
ME5KT1	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001402 (HNO3), 5C-001403 (NaOH) (2)	SW-5	S: 8/8/2011 10:25	E5KT1	Field Duplicate
ME5KT2	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001413 (HNO3), 5C-001414 (NaOH) (2)	SW-6	S: 8/8/2011 12:56	E5KT2	--
ME5KT3	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001424 (HNO3), 5C-001425 (NaOH) (2)	SW-7	S: 8/8/2011 14:05	E5KT3	--
ME5KT4	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001435 (HNO3), 5C-001436 (NaOH) (2)	SW-8	S: 8/8/2011 14:40	E5KT4	--
ME5KT5	Leachate/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001446 (HNO3), 5C-001447 (NaOH) (2)	L-9	S: 8/8/2011 13:40	E5KT5	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME5KQ6, ME5KS7	Additional Sampler Signature(s):	Chain of Custody Seal Number: 29017-29018
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? ✓

CN water = CLP Cyanide water, TM/CN/hg s = CLP TAL TM/ Hg/CN soil, TM/Hgwater = CLP TAL Total Metals/Hg water

TR Number: 5-131260284-080811-0007

REGION COPY

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	41647
DAS No:	
SDG No:	ME5KS7 L

Date Shipped:	8/10/2011
Carrier Name:	FedEx
Airbill:	866389086563
Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	8/10/11 1520	[signature]	8/11/11 9:00
2			
3			
4			

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No:	EPW09038
Unit Price:	
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
ME5KS4	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001364 (Ice Only) (1)	SO-11	S: 8/10/2011	14:40	E5KS4	
ME5KS5	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001371 (Ice Only) (1)	SO-12	S: 8/10/2011	10:15	E5KS5	
ME5KS6	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001387 (Ice Only) (1)	SO-13	S: 8/9/2011	16:00	E5KS6	
ME5KT6	Leachate/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-101870 (HNO3), 5C-101874 (NaOH) (2)	L-10	S: 8/10/2011		E5KT6	

= (Except: ME5KT6 ~~is Fat~~ all samples are in SDG # ME5KR4 8/11/11

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC: ME5KS6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 29023-24
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y/CS Shipment Iced? Y/CS

CN water = CLP Cyanide water, TM/CN/hg s = CLP TAL TM/ Hg/CN soil, TM/Hgwater = CLP TAL Total Metals/Hg water

TR Number: 5-131260284-081011-0004

LABORATORY COPY

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CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # ME5KS7
CASE # 41647
CONTRACT # EPW09038
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT # C3301

A. Number of Samples and Date of Receipt

10 Water Samples were delivered to the laboratory intact on 08/09/11 & 08/11/11.

B. Parameters

Test requested for Test requested for Metals CLP FULL =Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Hg & CN.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence
Cooler: 4°C & 5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: The laboratory received Regional copies of the TR/COCs.

Issue 2: No sample was designated for laboratory QC or they indicated that laboratory QC is not required on the TR/COC. Per scheduling, laboratory QC is required.

Issue 3: Additional samples were designated for laboratory QC on the TR/COC.

E. Corrective Action taken for above:

Resolution 1: In accordance with previous direction from Region 5, the laboratory will send the Regional copy of the TR/COC with the Regional data package (i.e., Complete SDG File). The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: 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 and laboratory QC can be performed at full volume. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples

Resolution 3: In accordance with previous direction from Region 5, the laboratory will select one of the designated samples per matrix/analysis for laboratory QC. 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

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ISM01.2

G. Calculation:

Calculation example for ICP-AES Water Sample:

Results reported in Ug/L = Results in ppm X 1000 X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP Water- Prep

Fraction of Sample Amount Taken in ICP Water- Prep = 100/100 or 50/50 =1

(If 100 ml Initial Volume taken and Final Volume was made to 100 ml or 50 ml Initial Volume and Final Volume made to 50 ml in ICP-AES Water Digestion procedure).

Calculation example for Hg Water Sample:

Results reported in Ug/L = Results in ppb X Dilution Factor (if any) X Fraction of Sample Amount Taken in Water Hg-Prep.

Fraction of Sample Amount Taken in Water Hg-Prep = 100/100 =1

(If 100 ml Initial Volume taken and made it to Final Volume as 100 ml)

Calculation example for CN Water Sample:

Results reported in Ug/L = Results in Ug/L X Dilution Factor (if any) X Fraction of Sample Amount Taken in Water CN-Prep.

Fraction of Sample Amount Taken in Water CN-Prep = 50/50 =1
(If 50 ml Initial Volume taken and made it to Final Volume as 50 ml)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

I certify that the 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 hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V Reyes Name: Mildred V. Reyes

Date 8/31/11 Title: Document Control Officer

Metals

COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No: 41647 Mod. Ref. No.: SDG No: ME5KS7

SOW No.: ISM01.2

EPA Sample No.	Lab Sample ID
ME5KS7	C3301-01
ME5KS7D	C3301-02
ME5KS7S	C3301-03
ME5KS8	C3301-04
ME5KS9	C3301-05
ME5KT0	C3301-06
ME5KT1	C3301-07
ME5KT2	C3301-08
ME5KT3	C3301-09
ME5KT4	C3301-10
ME5KT5	C3301-11
ME5KT6	C3301-12

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	N/A
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	N/A
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	N/A

The laboratory did not receive any instructions with this SDG to modify the SOW standard laboratory sample preparation procedures (e.g., subsampling). To aid in the determination of data usability with respect to project decisions, any modifications performed are described below.

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 electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mildred Reyes Name: MILDRED REYES

Date: 8/31/11 Title: DOCUMENT CONTROL OFFICER

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS7

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-01

% Solids: Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	90.2	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	5.9	J		P
7440-39-3	Barium	37.7	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	64100			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	258			P
7439-92-1	Lead	1.3	J		P
7439-95-4	Magnesium	13500			P
7439-96-5	Manganese	42.2			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	2.4	J		P
7440-09-7	Potassium	4710	J		P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	44700			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	1.2	J		P
7440-66-6	Zinc	5.6	J		P
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS8

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-04

% Solids: Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	114	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	3.8	J		P
7440-39-3	Barium	35.5	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	0.12	J		P
7440-70-2	Calcium	74700			P
7440-47-3	Chromium	1.2	J		P
7440-48-4	Cobalt	12.2	J		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	144			P
7439-92-1	Lead	1.9	J		P
7439-95-4	Magnesium	11000			P
7439-96-5	Manganese	16.7			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	12.5	J		P
7440-09-7	Potassium	25000			P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	128000			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	1.3	J		P
7440-66-6	Zinc	45.1	J		P
57-12-5	Cyanide	5.1	J		AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS9

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-05

% Solids: Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	105	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	5.1	J		P
7440-39-3	Barium	35.7	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	74600			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	12.6	J		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	140			P
7439-92-1	Lead	1.5	J		P
7439-95-4	Magnesium	10900			P
7439-96-5	Manganese	15.3			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	12.0	J		P
7440-09-7	Potassium	25200			P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	130000			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	0.74	J		P
7440-66-6	Zinc	35.6	J		P
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KT0

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-06

% Solids: Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	72.1	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	3.2	J		P
7440-39-3	Barium	34.1	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	71800			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	11.6	J		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	98.8	J		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	10600			P
7439-96-5	Manganese	11.0	J		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.5	J		P
7440-09-7	Potassium	24600			P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	124000			P
7440-28-0	Thallium	2.7	J		P
7440-62-2	Vanadium	0.99	J		P
7440-66-6	Zinc	30.0	J		P
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KT1

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-07

% Solids: Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.4	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	3.1	J		P
7440-39-3	Barium	35.3	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	74000			P
7440-47-3	Chromium	1.0	J		P
7440-48-4	Cobalt	11.6	J		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	101			P
7439-92-1	Lead	1.5	J		P
7439-95-4	Magnesium	10900			P
7439-96-5	Manganese	11.8	J		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	13.1	J		P
7440-09-7	Potassium	25500			P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	129000			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	31.3	J		P
57-12-5	Cyanide	3.5	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KT2

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-08

% Solids: Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	523			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	5.1	J		P
7440-39-3	Barium	54.8	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	0.15	J		P
7440-70-2	Calcium	77000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	14.0	J		P
7440-50-8	Copper	10.6	J		P
7439-89-6	Iron	1350			P
7439-92-1	Lead	4.4	J		P
7439-95-4	Magnesium	12600			P
7439-96-5	Manganese	160			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	13.6	J		P
7440-09-7	Potassium	25500			P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	130000			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	55.5	J		P
57-12-5	Cyanide	27.1			AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KT3

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-09

% Solids: Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	92.0	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	6.9	J		P
7440-39-3	Barium	43.8	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	70500			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	278			P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	13300			P
7439-96-5	Manganese	56.0			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	3.1	J		P
7440-09-7	Potassium	5950			P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	79700			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	10.5	J		P
57-12-5	Cyanide	4.6	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KT4

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-10

% Solids: Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	136	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	2.7	J		P
7440-39-3	Barium	34.6	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	74100			P
7440-47-3	Chromium	2.5	J		P
7440-48-4	Cobalt	12.9	J		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	185			P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	10700			P
7439-96-5	Manganese	18.1			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	13.8	J		P
7440-09-7	Potassium	24900			P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	130000			P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	1.7	J		P
7440-66-6	Zinc	35.9	J		P
57-12-5	Cyanide	5.2	J		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KT5

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-11

% Solids: Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3820			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	18.6			P
7440-39-3	Barium	23.5	J		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	18000			P
7440-47-3	Chromium	67.1			P
7440-48-4	Cobalt	0.82	J		P
7440-50-8	Copper	12.3	J		P
7439-89-6	Iron	896			P
7439-92-1	Lead	2.8	J		P
7439-95-4	Magnesium	16900			P
7439-96-5	Manganese	84.8			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.7	J		P
7440-09-7	Potassium	35700			P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	416000		D	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	47.0	J		P
7440-66-6	Zinc	6.8	J		P
57-12-5	Cyanide	10.7			AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KT6

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Matrix: WATER Lab Sample ID: C3301-12

% Solids: Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22300			P
7440-36-0	Antimony	17.4	J		P
7440-38-2	Arsenic	102			P
7440-39-3	Barium	1310			P
7440-41-7	Beryllium	3.9	J		P
7440-43-9	Cadmium	9.8			P
7440-70-2	Calcium	359000			P
7440-47-3	Chromium	75.0			P
7440-48-4	Cobalt	78.6			P
7440-50-8	Copper	728			P
7439-89-6	Iron	155000			P
7439-92-1	Lead	2050			P
7439-95-4	Magnesium	82300			P
7439-96-5	Manganese	7020			P
7439-97-6	Mercury	7.50			CV
7440-02-0	Nickel	239			P
7440-09-7	Potassium	121000			P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	3.9	J		P
7440-23-5	Sodium	1140000		D	P
7440-28-0	Thallium	3.4	J		P
7440-62-2	Vanadium	29.7	J		P
7440-66-6	Zinc	4560			P
57-12-5	Cyanide	7.6	J		AS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Preparation Blank Matrix (soil/water/wipe/filter): WATER

Preparation Blank Concentration Units (ug/L, ug, 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
Aluminum	200.000	U	200.000	U	200.000	U	200.000	U	200.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	60.000	U	P
Arsenic	10.000	U	3.792	J	10.000	U	10.000	U	2.751	J	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	200.000	U	P
Beryllium	5.000	U	5.000	U	5.000	U	5.000	U	5.000	U	P
Cadmium	5.000	U	5.000	U	5.000	U	5.000	U	5.000	U	P
Calcium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Chromium	10.000	U	1.771	J	1.270	J	10.000	U	1.444	J	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	50.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	25.000	U	P
Iron	100.000	U	30.198	J	21.433	J	18.871	J	100.000	U	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Magnesium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Manganese	15.000	U	15.000	U	15.000	U	1.354	J	15.000	U	P
Mercury	0.20	U	0.20	U	-0.12	J	0.20	U	0.200	U	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	40.000	U	P
Potassium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	4.073	J	35.000	U	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Sodium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Thallium	7.544	J	8.106	J	5.646	J	4.295	J	3.392	J	P
Vanadium	1.327	J	50.000	U	0.391	J	0.995	J	50.000	U	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	60.000	U	P
Cyanide	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.000	U	AS

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KS7

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or 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			5.000	U							P
Cadmium			5.000	U							P
Calcium			5000.000	U							P
Chromium			10.000	U							P
Cobalt			50.000	U							P
Copper			25.000	U							P
Iron			15.899	J							P
Lead			10.000	U							P
Magnesium			5000.000	U							P
Manganese			15.000	U							P
Mercury			0.20	U							CV
Nickel			40.000	U							P
Potassium			5000.000	U							P
Selenium			3.696	J							P
Silver			10.000	U							P
Sodium			5000.000	U							P
Thallium			3.486	J							P
Vanadium			-1.433	J							P
Zinc			60.000	U							P

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Preparation Blank Matrix (soil/water/wipe/filter): WATER

Preparation Blank Concentration Units (ug/L, ug, 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
Cyanide	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.000	U	AS

Metals

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME5KS7S

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KS7

Matrix: WATER

% Solids for Sample: _____

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
Aluminum	75 - 125	1869.7370		90.1996	J	2000.00	89		P
Antimony	75 - 125	93.2105		60.0000	U	100.00	93		P
Arsenic	75 - 125	42.2465		5.8888	J	40.00	91		P
Barium	75 - 125	1773.3090		37.6813	J	2000.00	87		P
Beryllium	75 - 125	43.9747		5.0000	U	50.00	88		P
Cadmium	75 - 125	47.4696		5.0000	U	50.00	95		P
Chromium	75 - 125	178.1531		10.0000	U	200.00	89		P
Cobalt	75 - 125	425.8974		50.0000	U	500.00	85		P
Copper	75 - 125	240.5625		25.0000	U	250.00	96		P
Iron	75 - 125	1221.9350		257.7259		1000.00	96		P
Lead	75 - 125	20.1076		1.3109	J	20.00	94		P
Manganese	75 - 125	511.5290		42.1554		500.00	94		P
Mercury	75 - 125	0.9240		0.2000	U	1.00	92		CV
Nickel	75 - 125	438.1111		2.4172	J	500.00	87		P
Selenium	75 - 125	48.7699		35.0000	U	50.00	98		P
Silver	75 - 125	43.6701		10.0000	U	50.00	87		P
Thallium	75 - 125	52.8909		25.0000	U	50.00	106		P
Vanadium	75 - 125	442.6394		1.1775	J	500.00	88		P
Zinc	75 - 125	479.4509		5.6075	J	500.00	95		P
Cyanide	75 - 125	104.6618		10.0000	U	100.000	105		AS

Comments:

Metals

6-IN

DUPLICATES

EPA SAMPLE NO.

ME5KS7D

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KS7

Matrix: WATER

% Solids for Sample: _____

Concentration Units: (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		90.1996	J	94.1084	J	4		P
Antimony		60.0000	U	60.0000	U			P
Arsenic		5.8888	J	5.2487	J	11		P
Barium		37.6813	J	38.0005	J	1		P
Beryllium		5.0000	U	5.0000	U			P
Cadmium		5.0000	U	5.0000	U			P
Calcium		64115.8700		64660.2900		1		P
Chromium		10.0000	U	10.0000	U			P
Cobalt		50.0000	U	50.0000	U			P
Copper		25.0000	U	25.0000	U			P
Iron	100.0000	257.7259		272.4802		6		P
Lead		1.3109	J	1.7191	J	27		P
Magnesium	5000.0000	13479.4300		13439.9900		0		P
Manganese	15.0000	42.1554		43.0202		2		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		2.4172	J	3.7311	J	43		P
Potassium		4706.9020	J	4726.9650	J	0		P
Selenium		35.0000	U	35.0000	U			P
Silver		10.0000	U	10.0000	U			P
Sodium		44694.0200		45113.3300		1		P
Thallium		25.0000	U	25.0000	U			P
Vanadium		1.1775	J	0.6390	J	59		P
Zinc		5.6075	J	5.5215	J	2		P
Cyanide		10.0000	U	2.9519	J	12		AS

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KS7

Instrument Type: CV Instrument ID: CV1 Date: 01/05/2011

Preparation Method: 7470A

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Mercury	253.70	0.083

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KS7

Instrument Type: AS Instrument ID: CN Date: 01/04/2011

Preparation Method: Midi-distillation

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Cyanide	578.00	2.900

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KS7

Instrument Type: P Instrument ID: P5 Date: 12/17/2010

Preparation Method: 200.7

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Aluminum	396.10	8.4
Antimony	206.83	1.7
Arsenic	189.04	2.5
Barium	493.41	2.8
Beryllium	234.80	0.40
Cadmium	214.40	0.12
Calcium	373.60	16.9
Chromium	267.72	0.97
Cobalt	228.62	0.35
Copper	324.75	9.1
Iron	259.80	8.3
Lead	220.35	1.3
Magnesium	279.08	17.9
Manganese	257.61	0.39
Nickel	231.60	0.64
Potassium	769.80	83.7
Selenium	196.02	2.9
Silver	328.07	0.67
Sodium	818.30	148
Thallium	190.86	2.7
Vanadium	292.40	0.33
Zinc	213.80	5.1

Comments: _____

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Instrument ID: CV1 Analysis Method: CV

Start Date: 08/12/2011 End Date: 08/12/2011

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		
S0.0	1.0	1444															X											
S0.2	1.0	1447															X											
S2.5	1.0	1450															X											
S5.0	1.0	1452															X											
S7.5	1.0	1455															X											
S10.0	1.0	1458															X											
ICV	1.0	1500															X											
ICB	1.0	1502															X											
CCV	1.0	1504															X											
CCB	1.0	1506															X											
ZZZZZZ	1.0	1508																										
ZZZZZZ	1.0	1510																										
ZZZZZZ	1.0	1512																										
ZZZZZZ	1.0	1514																										
ZZZZZZ	1.0	1516																										
ZZZZZZ	1.0	1518																										
ZZZZZZ	1.0	1521																										
ZZZZZZ	1.0	1524																										
ZZZZZZ	1.0	1526																										
ZZZZZZ	1.0	1528																										
ZZZZZZ	1.0	1530																										
ZZZZZZ	1.0	1532																										
ZZZZZZ	1.0	1534																										
ZZZZZZ	1.0	1536																										
ZZZZZZ	1.0	1538																										
ZZZZZZ	1.0	1540																										
CCV	1.0	1542															X											
CCB	1.0	1544															X											
ZZZZZZ	1.0	1546																										
ZZZZZZ	1.0	1548																										
ZZZZZZ	1.0	1550																										
ZZZZZZ	1.0	1552																										
ZZZZZZ	1.0	1554																										
ZZZZZZ	1.0	1556																										
ZZZZZZ	1.0	1558																										
ZZZZZZ	1.0	1600																										
ZZZZZZ	1.0	1602																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Instrument ID: CV1 Analysis Method: CV

Start Date: 08/12/2011 End Date: 08/12/2011

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		
ZZZZZZ	1.0	1604																										
ZZZZZZ	1.0	1607																										
ZZZZZZ	1.0	1609																										
ZZZZZZ	1.0	1611																										
ZZZZZZ	1.0	1613																										
ZZZZZZ	1.0	1616																										
CCV	1.0	1617															X											
CCB	1.0	1619															X											
ZZZZZZ	1.0	1621																										
ZZZZZZ	1.0	1623																										
ZZZZZZ	1.0	1625																										
ZZZZZZ	1.0	1628																										
ZZZZZZ	1.0	1630																										
PBW	1.0	1632															X											
ME5KS7	1.0	1634															X											
ME5KS7D	1.0	1636															X											
ME5KS7S	1.0	1638															X											
ME5KS8	1.0	1640															X											
ME5KS9	1.0	1642															X											
ME5KT0	1.0	1644															X											
ME5KT1	1.0	1646															X											
ME5KT2	1.0	1648															X											
ME5KT3	1.0	1650															X											
ME5KT4	1.0	1652															X											
ME5KT5	1.0	1655															X											
ME5KT6	1.0	1657															X											
ZZZZZZ	1.0	1659																										
CCV	1.0	1701															X											
CCB	1.0	1703															X											

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Instrument ID: CN Analysis Method: AS

Start Date: 08/15/2011 End Date: 08/15/2011

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	1155																								X		
S5	1.0	1155																								X		
S10	1.0	1155																								X		
S100	1.0	1156																								X		
S250	1.0	1156																								X		
S500	1.0	1156																								X		
ICV	1.0	1306																								X		
ICB	1.0	1306																								X		
CCV	1.0	1306																								X		
CCB	1.0	1306																								X		
PBW	1.0	1306																								X		
ME5KS7	1.0	1306																								X		
ME5KS7D	1.0	1306																								X		
ME5KS7S	1.0	1306																								X		
ME5KS8	1.0	1306																								X		
ME5KS9	1.0	1306																								X		
ME5KT0	1.0	1306																								X		
ME5KT1	1.0	1312																								X		
ME5KT2	1.0	1312																								X		
ME5KT3	1.0	1312																								X		
CCV	1.0	1313																								X		
CCB	1.0	1313																								X		
ME5KT4	1.0	1313																								X		
ME5KT5	1.0	1313																								X		
CCV	1.0	1313																								X		
CCB	1.0	1313																								X		

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Instrument ID: CN Analysis Method: AS

Start Date: 08/18/2011 End Date: 08/18/2011

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	0909																								X		
S5	1.0	0909																								X		
S10	1.0	0909																								X		
S100	1.0	0909																								X		
S250	1.0	0909																								X		
S500	1.0	0909																								X		
ICV	1.0	0942																								X		
ICB	1.0	0942																								X		
CCV	1.0	0942																								X		
CCB	1.0	0942																								X		
PBW	1.0	0942																								X		
ME5KT6	1.0	0942																								X		
ZZZZZZ	1.0	0942																										
ZZZZZZ	1.0	0942																										
ZZZZZZ	1.0	0942																										
ZZZZZZ	1.0	0942																										
ZZZZZZ	1.0	0942																										
ZZZZZZ	1.0	0946																										
ZZZZZZ	1.0	0946																										
CCV	1.0	0946																								X		
CCB	1.0	0946																								X		
ZZZZZZ	2.0	1008																										
CCV	1.0	1008																								X		
CCB	1.0	1008																								X		

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KS7

Instrument ID: P5 Analysis Method: P

Start Date: 08/25/2011 End Date: 08/25/2011

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	1205	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	1209	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	1212	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	1216	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	1219	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	1222	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICV	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			
ICB	1.0	1229	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	1233	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB	1.0	1236	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV	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			
CCB	1.0	1254	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBW	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			
LCS	1.0	1301	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS7	1.0	1304	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS7D	1.0	1308	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS7S	1.0	1312	X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X			
ME5KS7L	5.0	1315	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS8	1.0	1319	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS9	1.0	1322	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KT0	1.0	1326	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KT1	1.0	1329	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KT2	1.0	1333	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KT3	1.0	1336	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KT4	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			
ME5KT5	1.0	1343	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ME5KT6	1.0	1347	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ZZZZZZ	1.0	1350																										
ZZZZZZ	1.0	1354																										
ZZZZZZ	1.0	1357																										
ZZZZZZ	1.0	1401																										
ZZZZZZ	1.0	1404																										
ZZZZZZ	1.0	1408																										
ZZZZZZ	1.0	1411																										
ZZZZZZ	1.0	1415																										
ZZZZZZ	1.0	1419																										
ZZZZZZ	1.0	1422																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KS7

Instrument ID: P5 Analysis Method: P

Start Date: 08/25/2011 End Date: 08/25/2011

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		
ZZZZZZ	1.0	1426																										
ZZZZZZ	5.0	1430																										
CCV	1.0	1433	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	1436	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	1440																										
ZZZZZZ	1.0	1444																										
ZZZZZZ	1.0	1447																										
ZZZZZZ	1.0	1451																										
ZZZZZZ	1.0	1454																										
ZZZZZZ	1.0	1458																										
ZZZZZZ	1.0	1501																										
ZZZZZZ	1.0	1505																										
ZZZZZZ	1.0	1508																										
ZZZZZZ	1.0	1512																										
ZZZZZZ	1.0	1516																										
ZZZZZZ	1.0	1519																										
ZZZZZZ	1.0	1523																										
ZZZZZZ	1.0	1526																										
ZZZZZZ	1.0	1530																										
ZZZZZZ	1.0	1533																										
ZZZZZZ	1.0	1537																										
ZZZZZZ	1.0	1541																										
ZZZZZZ	1.0	1544																										
ZZZZZZ	1.0	1548																										
ZZZZZZ	5.0	1551																										
ZZZZZZ	1.0	1555																										
ZZZZZZ	1.0	1559																										
ZZZZZZ	1.0	1602																										
ZZZZZZ	1.0	1606																										
ZZZZZZ	1.0	1609																										
CCV	1.0	1613	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	1616	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	1626																										
ZZZZZZ	1.0	1631																										
ME5KT5	10	1634																				X						
ME5KT6	10	1638																				X						
ZZZZZZ	10	1641																										
ZZZZZZ	10	1645																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KS7

Instrument ID: P5 Analysis Method: P

Start Date: 08/25/2011 End Date: 08/25/2011

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		
ZZZZZZ	10	1648																										
ZZZZZZ	50	1652																										
ZZZZZZ	1.0	1656																										
ZZZZZZ	1.0	1659																										
ZZZZZZ	1.0	1703																										
ZZZZZZ	1.0	1706																										
ZZZZZZ	1.0	1710																										
ZZZZZZ	1.0	1713																										
ZZZZZZ	5.0	1717																										
ZZZZZZ	1.0	1720																										
ZZZZZZ	1.0	1724																										
ZZZZZZ	1.0	1727																										
ZZZZZZ	1.0	1731																										
ZZZZZZ	1.0	1734																										
ZZZZZZ	1.0	1738																										
ZZZZZZ	1.0	1741																										
ZZZZZZ	1.0	1745																										
ZZZZZZ	1.0	1748																										
ZZZZZZ	1.0	1752																										
ZZZZZZ	1.0	1756																										
ZZZZZZ	5.0	1759																										
CCV	1.0	1803	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	1806	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

Controlled Document

ESAT5.316.00070
ACH
9-27-11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: August 30, 2011

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: OEPA
Email address: victoria.sigler@epa.state.oh.us; wendy.vorwerk@epa.state.oh.us

Level 3 Data Validation

We have reviewed the data for the following case:

Site Name: Clyde Dump (OH)

Case Number: 41647 SDG Number: E5KQ6

Number and Type of Samples: 8 soil samples (VOA, SVOA, Pest, Aroclor)

Sample Numbers: E5KQ6 – E5KQ9, E5KR0 – E5KR3

Laboratory: ALS Laboratory Group Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KQ6
Laboratory: ALS Laboratory

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 E5KQ6 – E5KQ9 and E5KR0 – E5KR3 were collected on 08/08/2011. The samples were received by ALS Laboratory Group located in Salt Lake City, UT on 08/09/2011. All samples arrived intact and at the proper shipping temperature range of 2 - 6°C. All samples were analyzed for 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 2.6).

Sample E5KQ6 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.

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 CCV with relative response factors (RRFs) outside criteria. 1,4-Dioxane was not detected in the samples. Non-detected 1,4-Dioxane is qualified "R".

E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ8RE, E5KQ9, E5KR0, E5KR0RE, E5KR1, E5KR2, E5KR3, E5KR3RE, VBLKS1, VHBLKS1
1,4-Dioxane

The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and non-detected compounds are not qualified.

E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ8RE, E5KQ9, E5KR0, E5KR0RE, E5KR1, E5KR2, E5KR3, E5KR3RE, VBLKS1, VHBLKS1
1,4-Dioxane-d_8

The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Pentachlorophenol was not detected in the samples. Non-detected compounds are not qualified for this criterion. Non-detected Pentachlorophenol in E5KQ6 is ultimately qualified as "R" because of very low recovery in the spiked sample.

E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR2, E5KR3, SBLK48
Pentachlorophenol

4. BLANKS

The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank common contaminant concentration is less than 2x the concentration criteria. Detected compounds are qualified "U". Reported sample concentrations have been elevated to 2X the CRQL.

Acetone
E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ9, E5KR0, E5KR0RE, E5KR1, E5KR2, E5KR3, E5KR3RE, VHBLKS1

The following volatile samples have common contaminant analyte concentrations reported greater than 2x the CRQL but less than 4X the CRQL. The associated method blank common contaminant concentration is less than 2x the concentration criteria. Detected compounds are qualified "U". Reported sample concentrations have been elevated to 4X the CRQL.

Acetone
E5KQ8, E5KQ8RE

The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated storage blank common contaminant concentration is less than 2x the concentration criteria Detected compounds are qualified "U". Reported sample concentrations have been elevated to 2X the CRQL.

Methylene chloride
E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ8RE, E5KQ9, E5KR0, E5KR0RE, E5KR1, E5KR2, E5KR3, E5KR3RE

The following volatile samples have analyte concentrations reported less than the CRQL. The associated storage blank concentration is less than the concentration criteria. Detected compounds are qualified "U". Reported sample concentrations have been elevated to the CRQL. Toluene result in sample E5KQ6 is ultimately qualified as "UJ" because of non-compliant RPD in the MS/MSD. Toluene result in sample E5KR3RE is ultimately qualified as "R" because not all IS criteria was met.

Toluene
E5KQ6, E5KQ7, E5KQ9, E5KR0RE, E5KR1, E5KR2, E5KR3, E5KR3RE

The following volatile samples have analyte concentrations reported greater than the CRQL but less than 2x the CRQL. The associated storage blank is less than the concentration criteria. Detected compound is qualified "U". Reported sample concentrations have been elevated to 2x the CRQL.

Toluene
E5KR0

The following semivolatile samples have common contaminant concentrations reported less than 5x the CRQL. The associated method blank concentration is less than 5x the concentration criteria. Detected compound is qualified "U". Reported sample concentrations have been elevated to 5X the CRQL.

Bis(2-ethylhexyl)phthalate
E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR2, E5KR3

The following semivolatile 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". Reported sample concentrations have been elevated to the CRQL.

Benzaldehyde
E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR3

Di-n-butylphthalate
E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR2, E5KR3

The following SVOA samples have TIC concentrations reported less than 5x the associated method blanks concentrations. Detected compounds are qualified "U" and deleted from the TIC report.

Unknown Propane, 1-(1-methylethoxy)- @ 3.34
E5KQ7, E5KQ8, E5KQ9, E5KR1, E5KR2, E5KR3

Unknown Glycine, N-(2-cyanoethyl)- @ 3.44
E5KQ6, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR2, E5KR3

Unknown 2-Propanone, O-methyloxime @ 4.00
E5KQ7

Unknown Phthalic anhydride @ 17.31 - 21.18
E5KQ6, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR2, E5KR3

Unknown Phthalic acid, monoethyl ester @ 17.33 - 21.13
E5KR0, E5KR3

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.

E5KQ6MSD, E5KQ8, E5KR0, E5KR0RE
Benzene

E5KQ8RE
Cyclohexane, Benzene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane

E5KR3, E5KR3RE
Dichlorodifluoromethane, Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, Carbon Disulfide, Cyclohexane, Benzene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane

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".

E5KQ7, E5KQ8, E5KR1, E5KR3
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene

E5KR0
4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E5KQ6 designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria. The compounds were not detected in the unspiked sample. Non-detected compounds in the unspiked sample (E5KQ6) are qualified "UJ".

E5KQ6MS, E5KQ6MSD
Benzene, Trichloroethene, Toluene, Chlorobenzene

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. Detected Acenaphthene in the unspiked sample (E5KQ6) is qualified "J".

E5KQ6MS, E5KQ6MSD
Acenaphthene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recoveries that are less than the lower acceptance limit. Detected Pyrene in the unspiked sample (E5KQ6) is qualified "J".

E5KQ6MS, E5KQ6MSD
Pyrene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recoveries that are less than the expanded lower acceptance limit. Detected Phenol and Acenaphthene in the unspiked sample (E5KQ6) are qualified "J". Non-detected 2-Chlorophenol, N-Nitroso-di-n-

propylamine, 4-Chloro-3-methylphenol, 4-Nitrophenol, 2,4-Dinitrotoluene and Pentachlorophenol in the unspiked sample (E5KQ6) are qualified "R".

E5KQ6MS, E5KQ6MSD
Phenol, 2-Chlorophenol, N-Nitroso-di-n-propylamine, 4-Chloro-3-methylphenol, Acenaphthene, 4-Nitrophenol, 2,4-Dinitrotoluene, Pentachlorophenol

The relative percent difference (RPD) between the following aroclor matrix spike and matrix spike duplicate recoveries is outside criteria. Aroclor-1260 was not detected in the unspiked sample. Non-detected Aroclor-1260 in the unspiked sample (E5KQ6) is qualified "UJ".

E5KQ6MS, E5KQ6MSD
Aroclor-1260

6B. LABORATORY CONTROL SAMPLE

No problems were found.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks or filed duplicates.

8. INTERNAL STANDARDS

The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "R".

E5KQ6MSD, E5KQ8, E5KQ8RE, E5KR0, E5KR0RE, E5KR3
Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E5KR3RE
1,1,1-Trichloroethane, Cyclohexane, Carbon tetrachloride, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

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 VOA samples have compound concentrations less than the CRQL. Detected compounds are qualified "J".

E5KQ6, E5KQ6MS, E5KQ6MSD
m,p-Xylene

E5KQ7
2-Butanone, Ethylbenzene, o-Xylene, m,p-Xylene, 1,4-Dichlorobenzene

E5KQ8, E5KQ8RE
Carbon disulfide, Ethylbenzene, o-Xylene, m,p-Xylene, 1,4-Dichlorobenzene

E5KQ9, E5KR0, E5KR0RE
Carbon disulfide, 2-Butanone, Ethylbenzene, o-Xylene, m,p-Xylene, 1,4-Dichlorobenzene

E5KR1
Carbon disulfide, m,p-Xylene, 1,4-Dichlorobenzene

E5KR2
2-Butanone

E5KR3
Carbon disulfide, Ethylbenzene, m,p-Xylene, 1,4-Dichlorobenzene

E5KR3RE
Ethylbenzene, m,p-Xylene, 1,4-Dichlorobenzene

VBLKS1
Acetone, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

VHBLKS1
Methylene chloride, Toluene

A library search indicates a match below 85% for a TIC compound in the VOA samples. Detected compounds are qualified "J".

Unknown Deuterated Trichloroethene @ 9.05
VHBLKS1

The following SVOA samples have compound concentrations less than the CRQL. Detected compounds are qualified "J".

E5KQ6
Phenol, Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Diethylphthalate, Fluorene, Atrazine, Anthracene, Carbazole, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E5KQ6MS
Acetophenone, Naphthalene, 2-Methylnaphthalene, 1,1'-Biphenyl, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Atrazine, Anthracene, Carbazole, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E5KQ6MSD
Acetophenone, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Atrazine, Carbazole, Butylbenzylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E5KQ7
Phenol, Acetophenone, 4-Methylphenol, Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Dibenzo(a,h)anthracene

E5KQ8
Phenol, Acetophenone, 4-Methylphenol, Naphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E5KQ9
Phenol, 4-Methylphenol, Naphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E5KR0
Acetophenone, 4-Methylphenol, Naphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E5KR1
Acetophenone, Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Butylbenzylphthalate, Dibenzo(a,h)anthracene

E5KR2
Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Carbazole, Butylbenzylphthalate, Dibenzo(a,h)anthracene

E5KR3
Phenol, Acetophenone, Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Dibenzo(a,h)anthracene

SBLK48
Benzaldehyde, Di-n-butylphthalate, Bis(2-ethylhexyl)phthalate

A library search indicates a match at or above 85% for a TIC compound in the SVOA samples. Detected compounds are qualified "NJ".

CAS No. 57-10-3 n-Hexadecanoic acid
E5KQ7, E5KQ8, E5KQ9, E5KR2

CAS No. 57-11-4 Octadecanoic acid
E5KQ8, E5KQ9

CAS No. 57-88-5 Cholesterol
E5KQ7, E5KQ9, E5KR0

CAS No. 83-46-5 .beta.-Sitosterol
E5KQ7, E5KQ8, E5KR0, E5KR3

CAS No. 83-47-6 .gamma.-Sitosterol;
CAS No. 360-68-9 Cholestan-3-ol, (3.beta.,5.beta.)-
E5KQ9, E5KR1

CAS No. 83-48-7 Stigmasterol;
CAS No. 545-47-1 Lupeol;
CAS No. 53584-60-4 28-Nor-17.alpha.(H)-hopane
E5KQ9

CAS No. 84-65-1 9,10-Anthracenedione
E5KQ6, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR3

CAS No. 107-41-5 Hexylene Glycol
E5KQ6, E5KQ7, E5KQ8, E5KR1

CAS No. 111-02-4 2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,2
E5KQ7, E5KQ8, E5KQ9

CAS No. 112-39-0 Hexadecanoic acid, methyl ester
E5KQ6, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR2, E5KR3

CAS No. 124-10-7 Methyl tetradecanoate
E5KQ8, E5KR3

CAS No. 150-86-7 Phytol;
CAS No. 56797-43-4 cis,cis,cis-7,10,13-Hexadecatrienal;
CAS No. 300574-36-1 5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan;
CAS No. 1000336-45-9 Methyl 5,8,11,14,17-eicosapentaenoate;
CAS No. 1000342-70-4 1-Octadecanesulphonyl chloride
E5KR3

CAS No. 192-97-2 Benzo[e]pyrene
E5KQ6, E5KQ7, E5KQ8, E5KR1, E5KR2, E5KR3

CAS No. 203-64-5 4H-Cyclopenta[def]Phenanthrene;
CAS No. 2531-84-2 Phenanthrene, 2-methyl-
E5KR2

CAS No. 473-08-5 7-Isopropenyl-1,4a-dimethyl-4,4a,5,6,7,8-hexahyd;
CAS No. 2416-20-8 Hexadecenoic acid, Z-11-;
CAS No. 33543-31-6 Fluoranthene, 2-methyl-
E5KR1

CAS No. 474-62-4 Campesterol
E5KR0, E5KR1

CAS No. 516-95-0 Epicholestanol;
CAS No. 3234-85-3 Tetradecanoic acid, tetradecyl ester
E5KQ8

CAS No. 540-10-3 Hexadecanoic acid, hexadecyl ester
E5KQ7, E5KQ8, E5KR0

CAS No. 544-63-8 Tetradecanoic acid;
CAS No. 1000333-19-5 cis-9-Hexadecenoic acid
E5KQ7, E5KQ8, E5KQ9, E5KR3

CAS No. 1120-25-8 9-Hexadecenoic acid, methyl ester, (Z)-
E5KQ8, E5KQ9, E5KR0, E5KR3

CAS No. 2091-29-4 9-Hexadecenoic acid;
CAS No. 86917-79-5 6-Isopropenyl-4,8a-dimethyl-4a,5,6,7,8,8a-hexahy
E5KR0

CAS No. 2381-21-7 Pyrene, 1-methyl-
E5KR2, E5KR3

CAS No. 7494-34-0 26-Nor-5-cholesten-3.beta.-ol-25-one
E5KQ8, E5KR1, E5KR3

CAS No. 7683-64-9 Squalene
E5KR0, E5KR1, E5KR3

CAS No. 10030-74-7 Methyl hexadec-9-enoate;
CAS No. 63521-76-6 Tridecanedial
E5KQ7

CAS No. 10191-41-0 dl-.alpha.-Tocopherol
E5KQ9, E5KR0, E5KR1

A library search indicates a match below 85% for a TIC compound in the SVOA samples. Detected compounds are qualified "J".

Unknown 2-Furanmethanamine, tetrahydro- @ 3.34;
Unknown Acetamide, N-ethyl- @ 4.00;
Unknown 1-Pyrroline, 3-ethyl- @ 4.70;
Unknown 2-Isopropenyl-3-methylpyrazine @ 9.35;
Unknown Benzaldehyde, 3,5-dichloro-2-hydroxy- @ 11.63
E5KQ6

Unknown Propane, 1-(1-methylethoxy)- @ 3.34;
Unknown Glycine, N-(2-cyanoethyl)- @ 3.44;
Unknown 2-Propanone, O-methyloxime @ 4.00;
Unknown Phthalic anhydride @ 17.31;
Unknown Phthalic acid, monoethyl ester @ 21.13
SBLK48

Unknown 1,3-Dioxolane-2-methanol, 2,4-dimethyl- @ 3.35;
Unknown Tetradecanoic acid @ 10.12;
Unknown 3,4-Octadiene, 7-methyl- @ 11.10;
Unknown 1H-Pyrazole-4-carbonitrile, 5-amino-1-(tetrahydr @ 14.59;
Unknown 2-Methoxyphenothiazine @ 18.43;
Unknown Cholestan-3-one, (5.alpha.)- @ 18.73;
Unknown Anthracene, 9-butyltetradecahydro- @ 19.56;
Unknown Pyrrolo[2,3-b]indole, 1,2,3,3a,8,8a-hexahydro-5- @ 20.85;
Unknown 1,1,4a,6-Tetramethyl-5-(phenylthio)methyl-1,2,3, @ 21.02;
Unknown Androst-4-en-3-one, 17-hydroxy-, (10.alpha.,17.b @ 21.87
E5KR0

Unknown DL-3-Methyl-2-butanol, acetate @ 4.00
E5KQ9, E5KR3

Unknown 1,4-Butanediamine @ 4.00;
Unknown .gamma.-Tocopherol @ 17.63
E5KR0, E5KR1

Unknown 3-Tetradecyne @ 11.11;
Unknown 1-Butyl(dimethyl)silyloxy-3-methylbutane @ 13.47;
Unknown 3-Methoxy-D-homoestra-1,3,5(10),8-tetraene-17a-o @ 17.33;
Unknown 1,4-Methanonaphthalene, 1,4-dihydro-9-phenyl- @ 17.46;
Unknown erythro-9,10-Dibromopentacosane @ 17.63;
Unknown 1-Hexadecanethiol @ 18.44;
Unknown .beta.-iso-Methyl ionone @ 18.64;
Unknown 2,9-Dimethyl-2,3,4,5,6,7-hexahydro-1H-2-benzazon @ 20.43;
Unknown Testosterone cypionate @ 21.90
E5KQ7

Unknown 3,7,11,15-Tetramethyl-2-hexadecen-1-ol @ 11.11;
Unknown Phytol @ 12.86;
Unknown cis-Vaccenic acid @ 13.02;
Unknown Arachidonic acid @ 13.98;
Unknown N-1-Adamantyl-p-dimethylaminobenzalimine @ 15.50;
Unknown 6-Fluoro-2-trifluoromethylbenzoic acid,2,4-dichl @ 17.97;
Unknown Tetradecanethiol @ 18.44;
Unknown 28-Nor-17.beta.(H)-hopane @ 18.64;
Unknown Tetracosapentaene, 2,6,10,15,19,23-hexamethyl- @ 19.57;
Unknown (1S,5R,10S)-1,5,8,8-Tetramethylbicyclo[8.1.0]und @ 20.42
E5KQ8

Unknown 8-Hexadecyne @ 11.11;
Unknown 2-Bromo-5,7-dimethyl[1,2,4]triazolo[1,5-a]pyrimi @ 14.57;
Unknown Pyrimidine-2,4,6(1H,3H,5H)-trione, 1-(2-tolyl)-5 @ 17.33;
Unknown Sulfurous acid, butyl heptadecyl ester @ 18.73;
Unknown d-Norpregnane (5.alpha.,14.alpha.) @ 20.43;
Unknown Benz[c]acridine, 5,10-dimethyl- @ 20.57;
Unknown 2-Cyclohexene-1-carboxaldehyde, 2,6-dimethyl-6-(@ 21.03;
Unknown 2,3-Diaminophenol @ 21.89
E5KQ9

Unknown 9-Octadecyne @ 11.11;
Unknown Cyclopenta[cd]pyrene @ 14.58;
Unknown 11-Dodecen-1-ol, 2,4,6-trimethyl-, (R,R,R)- @ 16.63;
Unknown 1H-Imidazole, 2,4,5-triphenyl- @ 17.33;
Unknown Anthracene, 9-cyclohexyltetradecahydro- @ 19.57;
Unknown Hexadecanoic acid, hexadecyl ester @ 20.56;
Unknown Testosterone @ 21.89
E5KR1

Unknown 9,10-Anthracenedione @ 12.03;
Unknown Cyclopenta(cd)pyrene, 3,4-dihydro- @ 14.57 - 14.97;
Unknown Ninhydrin @ 17.32
E5KR2

Unknown cis,cis,cis-7,10,13-Hexadecatrienal @ 13.02;
Unknown 11H-Benzo[b]fluorene @ 13.76;
Unknown Pentanoic acid, 4-methyl-2-(2,5-dimethyloxazolo[@ 17.96;
Unknown Cholestan-3-ol, (3.alpha.,5.beta.)- @ 18.07;
Unknown Naphthalene, 1-(phenylmethyl)- @ 20.43;
Unknown Octadecyl trifluoroacetate @ 20.56;
Unknown 5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan @ 21.51
E5KR3

Unknown 7H-Benz[de]anthracen-7-one @ 14.39
E5KR2, E5KR3

Unknown 28-Nor-17.alpha.(H)-hopane @ 17.97;
Unknown Cholestanol @ 18.06
E5KQ7, E5KR0

Unknown (1R,2S,8R,8Ar)-8-acetoxy-1-(2-hydroxyethyl)-1,2, @ 17.97 - 19.58;
Unknown 6-Isopropenyl-4,8a-dimethyl-4a,5,6,7,8,8a-hexahy @ 21.01
E5KQ7, E5KR1

Unknown Tetradecanoic acid, hexadecyl ester @ 18.43
E5KQ9, E5KR1, E5KR3

Unknown Dibenzo[def,mno]chrysene @ 18.78 - 19.03
E5KQ9, E5KR0, E5KR2

Unknown 4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a,5,6,6a, @ 20.42 - 20.86
E5KQ9, E5KR0, E5KR1

Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate @ 21.15
E5KQ6, E5KQ7

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E5KQ6
4,4'-DDE, 4,4'-DDT, Endrin ketone

E5KQ6MS
Delta-BHC, 4,4'-DDE, 4,4'-DDD, Endrin ketone, alpha-Chlordane

E5KQ6MSD
4,4'-DDE, 4,4'-DDD, Endrin ketone

E5KQ7, E5KR3
4,4'-DDE, 4,4'-DDT

E5KQ8
beta-BHC, Dieldrin, 4,4'-DDD, 4,4'-DDT

E5KQ9, E5KR0
Dieldrin, 4,4'-DDE, 4,4'-DDT

E5KR1
delta-BHC, Heptachlor epoxide, Dieldrin, 4,4'-DDD, 4,4'-DDT

E5KR2
4,4'-DDE, Methoxychlor, Endrin aldehyde

PLCSS1
gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, Endosulfan sulfate, 4,4'-DDT, gamma-Chlordane

The relative percent differences between analyte results for the following pesticide samples are greater than 25%. The results are less than 25% of the CRQL. Detected compounds are qualified "U" as false positives. Reported sample concentrations have been elevated to the CRQL.

E5KQ6
beta-BHC, delta-BHC, Heptachlor epoxide, Dieldrin, 4,4'-DDD

E5KQ6MS
beta-BHC, Heptachlor epoxide, Endrin aldehyde

E5KQ6MSD
beta-BHC, delta-BHC, Heptachlor epoxide

E5KQ7
delta-BHC, Heptachlor epoxide, 4,4'-DDD

E5KQ8
delta-BHC, Heptachlor epoxide, Endosulfan II, Methoxychlor

E5KQ9
beta-BHC, delta-BHC, Heptachlor epoxide, Endosulfan II, Methoxychlor

E5KR0
delta-BHC, Heptachlor epoxide, Endosulfan II, 4,4'-DDD

E5KR1
beta-BHC

E5KR2
Heptachlor epoxide, Dieldrin, Endosulfan II

E5KR3
beta-BHC, delta-BHC, Heptachlor epoxide, Methoxychlor

PBLKS1
delta-BHC

PLCSS1
delta-BHC, Heptachlor, Endrin ketone

The relative percent difference between analyte results for the following pesticide samples is greater than 25%. Detected compounds are qualified "J".

E5KQ6MS
gamma-BHC (Lindane), Heptachlor, Aldrin, 4,4'-DDE, 4,4'-DDD, 4,4'-DDT

E5KQ6MSD
gamma-BHC (Lindane), Aldrin, 4,4'-DDE

E5KQ7, E5KR3
4,4'-DDE, 4,4'-DDT

E5KQ8
Dieldrin, 4,4'-DDE, 4,4'-DDD, 4,4'-DDT

E5KQ9, E5KR0
Dieldrin, 4,4'-DDE, 4,4'-DDT

E5KR1
delta-BHC, Heptachlor epoxide, Dieldrin, 4,4'-DDE, 4,4'-DDD, 4,4'-DDT

E5KR2
4,4'-DDE, Methoxychlor, Endrin aldehyde, gamma-Chlordane

PLCSS1
Dieldrin, gamma-Chlordane

The following aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

ALCSS1
Aroclor-1016, Aroclor-1260

The relative percent differences between analyte results for the following aroclor samples are greater than 25%. Detected compounds are qualified "J".

E5KQ6MS, E5KQ6MSD
Aroclor-1260

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baselines for the pesticide and aroclor analyses were acceptable.

12. ADDITIONAL INFORMATION

EXES did not reported the following aroclor and pesticide samples. Form Is for these samples are included with the hard copy data package.

ALCSS1, PLCSS1

VOA and SVOA TICs with no CAS Numbers were not reported in the EXES Sample Summary Report. Please refer to Word document 41647 sdg E5KQ6 TIC for the validated TIC results.

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KQ6
Laboratory: ALS Laboratory

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: September 22, 2011

Sample Summary Report

Case No:	41647	Contract:	EPW11037	SDG No:	E5KQ6	Lab Code:	DATAC
Sample Number:	ABLKS1	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	33	ug/kg	1.0	U	U	Yes	
Aroclor-1221	33	ug/kg	1.0	U	U	Yes	
Aroclor-1232	33	ug/kg	1.0	U	U	Yes	
Aroclor-1242	33	ug/kg	1.0	U	U	Yes	
Aroclor-1248	33	ug/kg	1.0	U	U	Yes	
Aroclor-1254	33	ug/kg	1.0	U	U	Yes	
Aroclor-1260	33	ug/kg	1.0	U	U	Yes	
Aroclor-1262	33	ug/kg	1.0	U	U	Yes	
Aroclor-1268	33	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH: 7.8	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	43	ug/kg	1.0	U	U	Yes	
Aroclor-1221	43	ug/kg	1.0	U	U	Yes	
Aroclor-1232	43	ug/kg	1.0	U	U	Yes	
Aroclor-1242	43	ug/kg	1.0	U	U	Yes	
Aroclor-1248	43	ug/kg	1.0	U	U	Yes	
Aroclor-1254	43	ug/kg	1.0	U	U	Yes	
Aroclor-1260	43	ug/kg	1.0	U	UJ	Yes	
Aroclor-1262	43	ug/kg	1.0	U	U	Yes	
Aroclor-1268	43	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH: 7.8	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	220	ug/kg	1.0	JB	U	Yes	
Phenol	7.9	ug/kg	1.0	J	J	Yes	
Bis(2-chloroethyl)ether	220	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	220	ug/kg	1.0	U	R	Yes	
2-Methylphenol	220	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	220	ug/kg	1.0	U	U	Yes	
Acetophenone	220	ug/kg	1.0	U	U	Yes	
4-Methylphenol	220	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	220	ug/kg	1.0	U	R	Yes	
Hexachloroethane	220	ug/kg	1.0	U	U	Yes	
Nitrobenzene	220	ug/kg	1.0	U	U	Yes	
Isophorone	220	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	220	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	220	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	220	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	220	ug/kg	1.0	U	U	Yes	
Naphthalene	9.7	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	220	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	220	ug/kg	1.0	U	U	Yes	
Caprolactam	220	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	220	ug/kg	1.0	U	R	Yes	
2-Methylnaphthalene	10	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	220	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	220	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	220	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	220	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	220	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	430	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	220	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	220	ug/kg	1.0	U	U	Yes	
Acenaphthylene	13	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	430	ug/kg	1.0	U	U	Yes	
Acenaphthene	24	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	430	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	430	ug/kg	1.0	U	R	Yes	
Dibenzofuran	19	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	220	ug/kg	1.0	U	R	Yes	
Diethylphthalate	7.2	ug/kg	1.0	J	J	Yes	
Fluorene	31	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	220	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	430	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	430	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	220	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	220	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	220	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	220	ug/kg	1.0	U	U	Yes	
Atrazine	43	ug/kg	1.0	J	J	Yes	
Pentachlorophenol	430	ug/kg	1.0	U	R	Yes	
Phenanthrene	460	ug/kg	1.0			Yes	
Anthracene	55	ug/kg	1.0	J	J	Yes	
Carbazole	110	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	220	ug/kg	1.0	JB	U	Yes	
Fluoranthene	1000	ug/kg	1.0			Yes	
Pyrene	620	ug/kg	1.0		J	Yes	
Butylbenzylphthalate	220	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	220	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	310	ug/kg	1.0			Yes	
Chrysene	390	ug/kg	1.0			Yes	
Bis(2-ethylhexyl)	1100	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1100	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	220	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	510	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	180	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	320	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	240	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	51	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	160	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	220	ug/kg	1.0	U	U	Yes	
Hexylene Glycol	590	ug/Kg	1.0	JN	JN	Yes	
Total Alkanes	3400	ug/Kg	1.0	J	J	Yes	
9,10-Anthracenedione	390	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, methyl ester	120	ug/Kg	1.0	JN	JN	Yes	
Benzo[e]pyrene	97	ug/Kg	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH:	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.1	ug/kg	1.0	U	U	Yes	
Chloromethane	6.1	ug/kg	1.0	U	U	Yes	
Vinyl chloride	6.1	ug/kg	1.0	U	U	Yes	
Bromomethane	6.1	ug/kg	1.0	U	U	Yes	
Chloroethane	6.1	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	6.1	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	6.1	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	ug/kg	1.0	U	U	Yes	
Acetone	24	ug/kg	1.0	JB	U	Yes	
Carbon disulfide	6.1	ug/kg	1.0	U	U	Yes	
Methyl acetate	6.1	ug/kg	1.0	U	U	Yes	
Methylene chloride	12	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	6.1	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	6.1	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	6.1	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.1	ug/kg	1.0	U	U	Yes	
2-Butanone	12	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	6.1	ug/kg	1.0	U	U	Yes	
Chloroform	6.1	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.1	ug/kg	1.0	U	U	Yes	
Cyclohexane	6.1	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	6.1	ug/kg	1.0	U	U	Yes	
Benzene	6.1	ug/kg	1.0	U	UJ	Yes	
1,2-Dichloroethane	6.1	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	120	ug/kg	1.0	U	R	Yes	
Trichloroethene	6.1	ug/kg	1.0	U	UJ	Yes	
Methylcyclohexa ne	6.1	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	6.1	ug/kg	1.0	U	U	Yes	
Bromodichlorom	6.1	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	6.1	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	6.1	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	12	ug/kg	1.0	U	U	Yes	
Toluene	6.1	ug/kg	1.0	J	UJ	Yes	
trans-1,3-Dichloropropene	6.1	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	6.1	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	6.1	ug/kg	1.0	U	U	Yes	
2-Hexanone	12	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	6.1	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	6.1	ug/kg	1.0	U	U	Yes	
Chlorobenzene	6.1	ug/kg	1.0	U	UJ	Yes	
Ethylbenzene	6.1	ug/kg	1.0	U	U	Yes	
o-Xylene	6.1	ug/kg	1.0	U	U	Yes	
m,p-Xylene	0.19	ug/kg	1.0	J	J	Yes	
Styrene	6.1	ug/kg	1.0	U	U	Yes	
Bromoform	6.1	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	6.1	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	6.1	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	6.1	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH: 7.8	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.2	ug/kg	1.0	U	U	Yes	
beta-BHC	2.2	ug/kg	1.0	JP	U	Yes	
delta-BHC	2.2	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	2.2	ug/kg	1.0	U	U	Yes	
Heptachlor	2.2	ug/kg	1.0	U	U	Yes	
Aldrin	2.2	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2,2	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.2	ug/kg	1.0	U	U	Yes	
Dieldrin	4.3	ug/kg	1.0	JP	U	Yes	
4,4'-DDE	1.6	ug/kg	1.0	J	J	Yes	
Endrin	4.3	ug/kg	1.0	U	U	Yes	
Endosulfan II	4.3	ug/kg	1.0	U	U	Yes	
4,4'-DDD	4.3	ug/kg	1.0	JP	U	Yes	
Endosulfan sulfate	4.3	ug/kg	1.0	U	U	Yes	
4,4'-DDT	1.4	ug/kg	1.0	J	J	Yes	
Methoxychlor	22	ug/kg	1.0	U	U	Yes	
Endrin ketone	0.41	ug/kg	1.0	J	J	Yes	
Endrin aldehyde	4.3	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.2	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.2	ug/kg	1.0	U	U	Yes	
Toxaphene	220	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6MS	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH:	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1-Dichloroethene	66	ug/kg	1.0			Yes	
Dichlorodifluoro methane	7.0	ug/kg	1.0	U	U	Yes	
Chloromethane	7.0	ug/kg	1.0	U	U	Yes	
Benzene	65	ug/kg	1.0			Yes	
Vinyl chloride	7.0	ug/kg	1.0	U	U	Yes	
Trichloroethene	55	ug/kg	1.0			Yes	
Toluene	56	ug/kg	1.0			Yes	
Bromomethane	7.0	ug/kg	1.0	U	U	Yes	
Chlorobenzene	50	ug/kg	1.0			Yes	
Chloroethane	7.0	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	7.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	ug/kg	1.0	U	U	Yes	
Acetone	28	ug/kg	1.0	JB	U	Yes	
Carbon disulfide	7.0	ug/kg	1.0	U	U	Yes	
Methyl acetate	7.0	ug/kg	1.0	U	U	Yes	
Methylene chloride	14	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	7.0	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	7.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	7.0	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	7.0	ug/kg	1.0	U	U	Yes	
2-Butanone	14	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	7.0	ug/kg	1.0	U	U	Yes	
Chloroform	7.0	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	7.0	ug/kg	1.0	U	U	Yes	
Cyclohexane	7.0	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	7.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	7.0	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	140	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	7.0	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	7.0	ug/kg	1.0	U	U	Yes	
Bromodichlorom ethane	7.0	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	7.0	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	14	ug/kg	1.0	U	U	Yes	
trans-1,3-Dichloropropene	7.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	7.0	ug/kg	1.0	U	U	Yes	
Tetrachloroethen e	7.0	ug/kg	1.0	U	U	Yes	
2-Hexanone	14	ug/kg	1.0	U	U	Yes	
Dibromochlorom ethane	7.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	7.0	ug/kg	1.0	U	U	Yes	
Ethylbenzene	7.0	ug/kg	1.0	U	U	Yes	
o-Xylene	7.0	ug/kg	1.0	U	U	Yes	
m,p-Xylene	0.25	ug/kg	1.0	J	J	Yes	
Styrene	7.0	ug/kg	1.0	U	U	Yes	
Bromoform	7.0	ug/kg	1.0	U	U	Yes	
Isopropylbenzen e	7.0	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethan e	7.0	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	7.0	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	7.0	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	7.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	7.0	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzen e	7.0	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzen e	7.0	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6MS	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.8	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.2	ug/kg	1.0	U	U	Yes	
gamma-BHC (Lindane)	13	ug/kg	1.0	P	J	Yes	
beta-BHC	2.2	ug/kg	1.0	JP	U	Yes	
Heptachlor	13	ug/kg	1.0	P	J	Yes	
delta-BHC	0.52	ug/kg	1.0	JB	J	Yes	
Aldrin	13	ug/kg	1.0	P	J	Yes	
Dieldrin	31	ug/kg	1.0			Yes	
Endrin	32	ug/kg	1.0			Yes	
4,4'-DDT	31	ug/kg	1.0	P	J	Yes	
Heptachlor epoxide	2.2	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.2	ug/kg	1.0	U	U	Yes	
4,4'-DDE	1.6	ug/kg	1.0	JP	J	Yes	
Endosulfan II	4.3	ug/kg	1.0	U	U	Yes	
4,4'-DDD	1.4	ug/kg	1.0	JP	J	Yes	
Endosulfan sulfate	4.3	ug/kg	1.0	U	U	Yes	
Methoxychlor	22	ug/kg	1.0	U	U	Yes	
Endrin ketone	1.9	ug/kg	1.0	J	J	Yes	
Endrin aldehyde	4.3	ug/kg	1.0	JP	U	Yes	
alpha-Chlordane	0.76	ug/kg	1.0	J	J	Yes	
gamma-Chlordane	2.2	ug/kg	1.0	U	U	Yes	
Toxaphene	220	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6MS	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.8	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Phenol	220	ug/kg	1.0	U	U	Yes	
Benzaldehyde	220	ug/kg	1.0	JB	U	Yes	
2-Chlorophenol	220	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	220	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	220	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	220	ug/kg	1.0	U	U	Yes	
Acenaphthene	88	ug/kg	1.0	J	J	Yes	
2-Methylphenol	220	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	430	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	220	ug/kg	1.0	U	U	Yes	
Acetophenone	12	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	220	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	430	ug/kg	1.0	U	U	Yes	
4-Methylphenol	220	ug/kg	1.0	U	U	Yes	
Pyrene	1000	ug/kg	1.0			Yes	
Hexachloroethane	220	ug/kg	1.0	U	U	Yes	
Nitrobenzene	220	ug/kg	1.0	U	U	Yes	
Isophorone	220	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	220	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	220	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	220	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	220	ug/kg	1.0	U	U	Yes	
Naphthalene	20	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	220	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	220	ug/kg	1.0	U	U	Yes	
Caprolactam	220	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	17	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	220	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2,4,6-Trichlorophenol	220	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	220	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	9.7	ug/kg	1.0	J	J	Yes	
2-Chloronaphthalene	220	ug/kg	1.0	U	U	Yes	
2-Nitroaniline	430	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	220	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	220	ug/kg	1.0	U	U	Yes	
Acenaphthylene	13	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	430	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	430	ug/kg	1.0	U	U	Yes	
Dibenzofuran	71	ug/kg	1.0	J	J	Yes	
Diethylphthalate	220	ug/kg	1.0	U	U	Yes	
Fluorene	120	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	220	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	430	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	430	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	220	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	220	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	220	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	220	ug/kg	1.0	U	U	Yes	
Atrazine	43	ug/kg	1.0	J	J	Yes	
Phenanthrene	1400	ug/kg	1.0			Yes	
Anthracene	200	ug/kg	1.0	J	J	Yes	
Carbazole	200	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	220	ug/kg	1.0	JB	U	Yes	
Fluoranthene	1700	ug/kg	1.0			Yes	
Butylbenzylphthalate	220	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	220	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	520	ug/kg	1.0			Yes	
Chrysene	490	ug/kg	1.0			Yes	
Bis(2-ethylhexyl)	1100	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1100	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	220	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	610	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	240	ug/kg	1.0			Yes	
Benzo(a)pyrene	410	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	260	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	61	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	150	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	220	ug/kg	1.0	U	U	Yes	

Case No:	41647	Contract:	EPW11037	SDG No:	E5KQ6	Lab Code:	DATAC
Sample Number:	E5KQ6MS	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	7.8	Sample Date:	08082011	Sample Time:	15:00:00
% Moisture :	22.8162			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	180	ug/kg	1.0			Yes	
Aroclor-1221	43	ug/kg	1.0	U	U	Yes	
Aroclor-1260	61	ug/kg	1.0	P	J	Yes	
Aroclor-1232	43	ug/kg	1.0	U	U	Yes	
Aroclor-1242	43	ug/kg	1.0	U	U	Yes	
Aroclor-1248	43	ug/kg	1.0	U	U	Yes	
Aroclor-1254	43	ug/kg	1.0	U	U	Yes	
Aroclor-1262	43	ug/kg	1.0	U	U	Yes	
Aroclor-1268	43	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6MSD	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH:	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.6	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	76	ug/kg	1.0			Yes	
Benzene	84	ug/kg	1.0		J	Yes	
Chloromethane	6.6	ug/kg	1.0	U	U	Yes	
Vinyl chloride	6.6	ug/kg	1.0	U	U	Yes	
Trichloroethene	74	ug/kg	1.0			Yes	
Toluene	76	ug/kg	1.0			Yes	
Bromomethane	6.6	ug/kg	1.0	U	U	Yes	
Chloroethane	6.6	ug/kg	1.0	U	U	Yes	
Chlorobenzene	69	ug/kg	1.0			Yes	
Trichlorofluorom ethane	6.6	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	ug/kg	1.0	U	U	Yes	
Acetone	26	ug/kg	1.0	JB	U	Yes	
Carbon disulfide	6.6	ug/kg	1.0	U	U	Yes	
Methyl acetate	6.6	ug/kg	1.0	U	U	Yes	
Methylene chloride	13	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	6.6	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	6.6	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	6.6	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.6	ug/kg	1.0	U	U	Yes	
2-Butanone	13	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	6.6	ug/kg	1.0	U	U	Yes	
Chloroform	6.6	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.6	ug/kg	1.0	U	U	Yes	
Cyclohexane	6.6	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	6.6	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	6.6	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	130	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	6.6	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	6.6	ug/kg	1.0	U	U	Yes	
Bromodichloromethane	6.6	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	6.6	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	13	ug/kg	1.0	U	U	Yes	
trans-1,3-Dichloropropene	6.6	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	6.6	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	6.6	ug/kg	1.0	U	U	Yes	
2-Hexanone	13	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	6.6	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	6.6	ug/kg	1.0	U	U	Yes	
Ethylbenzene	6.6	ug/kg	1.0	U	U	Yes	
o-Xylene	6.6	ug/kg	1.0	U	U	Yes	
m,p-Xylene	0.45	ug/kg	1.0	J	J	Yes	
Styrene	6.6	ug/kg	1.0	U	U	Yes	
Bromoform	6.6	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	6.6	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	6.6	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	6.6	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	6.6	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	6.6	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	6.6	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	6.6	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	6.6	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6MSD	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.8	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
gamma-BHC (Lindane)	11	ug/kg	1.0	P	J	Yes	
alpha-BHC	2.2	ug/kg	1.0	U	U	Yes	
beta-BHC	2.2	ug/kg	1.0	JP	U	Yes	
Heptachlor	11	ug/kg	1.0			Yes	
delta-BHC	2.2	ug/kg	1.0	JBP	U	Yes	
Aldrin	11	ug/kg	1.0	P	J	Yes	
Dieldrin	27	ug/kg	1.0			Yes	
Endrin	28	ug/kg	1.0			Yes	
4,4'-DDT	27	ug/kg	1.0			Yes	
Heptachlor epoxide	2.2	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.2	ug/kg	1.0	U	U	Yes	
4,4'-DDE	1.3	ug/kg	1.0	JP	J	Yes	
Endosulfan II	4.3	ug/kg	1.0	U	U	Yes	
4,4'-DDD	1.3	ug/kg	1.0	J	J	Yes	
Endosulfan sulfate	4.3	ug/kg	1.0	U	U	Yes	
Methoxychlor	22	ug/kg	1.0	U	U	Yes	
Endrin ketone	1.6	ug/kg	1.0	J	J	Yes	
Endrin aldehyde	4.3	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.2	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.2	ug/kg	1.0	U	U	Yes	
Toxaphene	220	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6MSD	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.8	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	220	ug/kg	1.0	JB	U	Yes	
Phenol	220	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	220	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	220	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	220	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	220	ug/kg	1.0	U	U	Yes	
Acenaphthene	42	ug/kg	1.0	J	J	Yes	
2-Methylphenol	220	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	430	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	220	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	220	ug/kg	1.0	U	U	Yes	
Acetophenone	11	ug/kg	1.0	J	J	Yes	
Pentachlorophenol	430	ug/kg	1.0	U	U	Yes	
4-Methylphenol	220	ug/kg	1.0	U	U	Yes	
Pyrene	1000	ug/kg	1.0			Yes	
Hexachloroethane	220	ug/kg	1.0	U	U	Yes	
Nitrobenzene	220	ug/kg	1.0	U	U	Yes	
Isophorone	220	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	220	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	220	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	220	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	220	ug/kg	1.0	U	U	Yes	
Naphthalene	220	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	220	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	220	ug/kg	1.0	U	U	Yes	
Caprolactam	220	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	11	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	220	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2,4,6-Trichlorophenol	220	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	220	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	220	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	220	ug/kg	1.0	U	U	Yes	
2-Nitroaniline	430	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	220	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	220	ug/kg	1.0	U	U	Yes	
Acenaphthylene	10	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	430	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	430	ug/kg	1.0	U	U	Yes	
Dibenzofuran	31	ug/kg	1.0	J	J	Yes	
Diethylphthalate	220	ug/kg	1.0	U	U	Yes	
Fluorene	66	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	220	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	430	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	430	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	220	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	220	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	220	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	220	ug/kg	1.0	U	U	Yes	
Atrazine	53	ug/kg	1.0	J	J	Yes	
Phenanthrene	850	ug/kg	1.0			Yes	
Anthracene	280	ug/kg	1.0			Yes	
Carbazole	59	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	220	ug/kg	1.0	JB	U	Yes	
Fluoranthene	1700	ug/kg	1.0			Yes	
Butylbenzylphthalate	14	ug/kg	1.0	J	J	Yes	
3,3'-Dichlorobenzidine	220	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	570	ug/kg	1.0			Yes	
Chrysene	510	ug/kg	1.0			Yes	
Bis(2-ethylhexyl)	1100	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1100	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	220	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	680	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	210	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	470	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	310	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	68	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	200	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	220	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ6MSD	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.8	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture : 22.8162		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	160	ug/kg	1.0			Yes	
Aroclor-1221	43	ug/kg	1.0	U	U	Yes	
Aroclor-1260	100	ug/kg	1.0	P	J	Yes	
Aroclor-1232	43	ug/kg	1.0	U	U	Yes	
Aroclor-1242	43	ug/kg	1.0	U	U	Yes	
Aroclor-1248	43	ug/kg	1.0	U	U	Yes	
Aroclor-1254	43	ug/kg	1.0	U	U	Yes	
Aroclor-1262	43	ug/kg	1.0	U	U	Yes	
Aroclor-1268	43	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ7	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-2	pH: 7.6	Sample Date: 08082011	Sample Time: 11:15:00
% Moisture : 30.969		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.5	ug/kg	1.0	U	U	Yes	
beta-BHC	2.5	ug/kg	1.0	U	U	Yes	
delta-BHC	2.5	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	2.5	ug/kg	1.0	U	U	Yes	
Heptachlor	2.5	ug/kg	1.0	U	U	Yes	
Aldrin	2.5	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2.5	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.5	ug/kg	1.0	U	U	Yes	
Dieldrin	4.8	ug/kg	1.0	U	U	Yes	
4,4'-DDE	1.9	ug/kg	1.0	JP	J	Yes	
Endrin	4.8	ug/kg	1.0	U	U	Yes	
Endosulfan II	4.8	ug/kg	1.0	U	U	Yes	
4,4'-DDD	4.8	ug/kg	1.0	JP	U	Yes	
Endosulfan sulfate	4.8	ug/kg	1.0	U	U	Yes	
4,4'-DDT	2.7	ug/kg	1.0	JP	J	Yes	
Methoxychlor	25	ug/kg	1.0	U	U	Yes	
Endrin ketone	4.8	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	4.8	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.5	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.5	ug/kg	1.0	U	U	Yes	
Toxaphene	250	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ7	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-2	pH:	Sample Date: 08082011	Sample Time: 11:15:00
% Moisture : 30.969		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.7	ug/kg	1.0	U	U	Yes	
Chloromethane	6.7	ug/kg	1.0	U	U	Yes	
Vinyl chloride	6.7	ug/kg	1.0	U	U	Yes	
Bromomethane	6.7	ug/kg	1.0	U	U	Yes	
Chloroethane	6.7	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	6.7	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	6.7	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	ug/kg	1.0	U	U	Yes	
Acetone	26	ug/kg	1.0	JB	U	Yes	
Carbon disulfide	6.7	ug/kg	1.0	U	U	Yes	
Methyl acetate	6.7	ug/kg	1.0	U	U	Yes	
Methylene chloride	13	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	6.7	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	6.7	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	6.7	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.7	ug/kg	1.0	U	U	Yes	
2-Butanone	11	ug/kg	1.0	J	J	Yes	
Bromochloromet hane	6.7	ug/kg	1.0	U	U	Yes	
Chloroform	6.7	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.7	ug/kg	1.0	U	U	Yes	
Cyclohexane	6.7	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	6.7	ug/kg	1.0	U	U	Yes	
Benzene	6.7	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	6.7	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	130	ug/kg	1.0	U	R	Yes	
Trichloroethene	6.7	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	6.7	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	6.7	ug/kg	1.0	U	U	Yes	
Bromodichlorom	6.7	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	6.7	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	6.7	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	13	ug/kg	1.0	U	U	Yes	
Toluene	6.7	ug/kg	1.0	J	U	Yes	
trans-1,3-Dichloropropene	6.7	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	6.7	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	6.7	ug/kg	1.0	U	U	Yes	
2-Hexanone	13	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	6.7	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	6.7	ug/kg	1.0	U	U	Yes	
Chlorobenzene	6.7	ug/kg	1.0	U	U	Yes	
Ethylbenzene	0.36	ug/kg	1.0	J	J	Yes	
o-Xylene	0.21	ug/kg	1.0	J	J	Yes	
m,p-Xylene	0.79	ug/kg	1.0	J	J	Yes	
Styrene	6.7	ug/kg	1.0	U	U	Yes	
Bromoform	6.7	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	6.7	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	6.7	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	6.7	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	0.41	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	6.7	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	6.7	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	6.7	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	6.7	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ7	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-2	pH: 7.6	Sample Date: 08082011	Sample Time: 11:15:00
% Moisture : 30.969		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	48	ug/kg	1.0	U	U	Yes	
Aroclor-1221	48	ug/kg	1.0	U	U	Yes	
Aroclor-1232	48	ug/kg	1.0	U	U	Yes	
Aroclor-1242	48	ug/kg	1.0	U	U	Yes	
Aroclor-1248	48	ug/kg	1.0	U	U	Yes	
Aroclor-1254	48	ug/kg	1.0	U	U	Yes	
Aroclor-1260	48	ug/kg	1.0	U	U	Yes	
Aroclor-1262	48	ug/kg	1.0	U	U	Yes	
Aroclor-1268	48	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ7	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-2	pH: 7.6	Sample Date: 08082011	Sample Time: 11:15:00
% Moisture : 30.969		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	250	ug/kg	1.0	JB	U	Yes	
Phenol	9.2	ug/kg	1.0	J	J	Yes	
Bis(2-chloroethyl)ether	250	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	250	ug/kg	1.0	U	U	Yes	
2-Methylphenol	250	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	250	ug/kg	1.0	U	U	Yes	
Acetophenone	12	ug/kg	1.0	J	J	Yes	
4-Methylphenol	71	ug/kg	1.0	J	J	Yes	
N-Nitroso-di-n-propylamine	250	ug/kg	1.0	U	U	Yes	
Hexachloroethane	250	ug/kg	1.0	U	U	Yes	
Nitrobenzene	250	ug/kg	1.0	U	U	Yes	
Isophorone	250	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	250	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	250	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	250	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	250	ug/kg	1.0	U	U	Yes	
Naphthalene	12	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	250	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	250	ug/kg	1.0	U	U	Yes	
Caprolactam	250	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	250	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	7.6	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	250	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	250	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	250	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	250	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	250	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	480	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	250	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	250	ug/kg	1.0	U	U	Yes	
Acenaphthylene	15	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	480	ug/kg	1.0	U	U	Yes	
Acenaphthene	41	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	480	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	480	ug/kg	1.0	U	U	Yes	
Dibenzofuran	30	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	250	ug/kg	1.0	U	U	Yes	
Diethylphthalate	250	ug/kg	1.0	U	U	Yes	
Fluorene	52	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	250	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	480	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	480	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	250	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	250	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	250	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	250	ug/kg	1.0	U	U	Yes	
Atrazine	250	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	480	ug/kg	1.0	U	U	Yes	
Phenanthrene	920	ug/kg	1.0			Yes	
Anthracene	120	ug/kg	1.0	J	J	Yes	
Carbazole	180	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	250	ug/kg	1.0	JB	U	Yes	
Fluoranthene	2100	ug/kg	1.0		J	Yes	
Pyrene	1200	ug/kg	1.0		J	Yes	
Butylbenzylphthalate	250	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	250	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	670	ug/kg	1.0		J	Yes	
Chrysene	860	ug/kg	1.0		J	Yes	
Bis(2-ethylhexyl)	1200	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1200	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	250	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	1500	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	450	ug/kg	1.0			Yes	
Benzo(a)pyrene	780	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	440	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	90	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	330	ug/kg	1.0			Yes	
2,3,4,6-Tetrachlorophenol	250	ug/kg	1.0	U	U	Yes	
Tridecanedial	190	ug/Kg	1.0	JN	JN	Yes	
Benzo[e]pyrene	260	ug/Kg	1.0	JN	JN	Yes	
2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,2	830	ug/Kg	1.0	JN	JN	Yes	
.beta.-Sitosterol	890	ug/Kg	1.0	JN	JN	Yes	
9,10-Anthracenedione	480	ug/Kg	1.0	JN	JN	Yes	
Hexylene Glycol	450	ug/Kg	1.0	JN	JN	Yes	
cis-9-Hexadecenoic acid	800	ug/Kg	1.0	JN	JN	Yes	
n-Hexadecanoic acid	1900	ug/Kg	1.0	JN	JN	Yes	
Tetradecanoic acid	310	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, hexadecyl ester	320	ug/Kg	1.0	JN	JN	Yes	
Cholesterol	910	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, methyl ester	300	ug/Kg	1.0	JN	JN	Yes	
Methyl hexadec-9-enoate	400	ug/Kg	1.0	JN	JN	Yes	
Total Alkanes	2300	ug/Kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ8	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-3	pH: 7.3	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture : 54.6197		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	3.7	ug/kg	1.0	U	U	Yes	
beta-BHC	0.50	ug/kg	1.0	J	J	Yes	
delta-BHC	3.7	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	3.7	ug/kg	1.0	U	U	Yes	
Heptachlor	3.7	ug/kg	1.0	U	U	Yes	
Aldrin	3.7	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	3.7	ug/kg	1.0	JP	U	Yes	
Endosulfan I	3.7	ug/kg	1.0	U	U	Yes	
Dieldrin	3.7	ug/kg	1.0	JP	J	Yes	
4,4'-DDE	8.1	ug/kg	1.0	P	J	Yes	
Endrin	7.2	ug/kg	1.0	U	U	Yes	
Endosulfan II	7.2	ug/kg	1.0	JP	U	Yes	
4,4'-DDD	3.2	ug/kg	1.0	JP	J	Yes	
Endosulfan sulfate	7.2	ug/kg	1.0	U	U	Yes	
4,4'-DDT	5.4	ug/kg	1.0	JP	J	Yes	
Methoxychlor	37	ug/kg	1.0	JP	U	Yes	
Endrin ketone	7.2	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	7.2	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	3.7	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	3.7	ug/kg	1.0	U	U	Yes	
Toxaphene	370	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ8	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-3	pH:	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture : 54.6197		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	12	ug/kg	1.0	U	U	Yes	
Chloromethane	12	ug/kg	1.0	U	U	Yes	
Vinyl chloride	12	ug/kg	1.0	U	U	Yes	
Bromomethane	12	ug/kg	1.0	U	U	Yes	
Chloroethane	12	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	12	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	12	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	12	ug/kg	1.0	U	U	Yes	
Acetone	100	ug/kg	1.0	B	U	Yes	
Carbon disulfide	2.7	ug/kg	1.0	J	J	Yes	
Methyl acetate	12	ug/kg	1.0	U	U	Yes	
Methylene chloride	25	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	12	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	12	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	12	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	12	ug/kg	1.0	U	U	Yes	
2-Butanone	29	ug/kg	1.0			Yes	
Bromochloromet hane	12	ug/kg	1.0	U	U	Yes	
Chloroform	12	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	12	ug/kg	1.0	U	U	Yes	
Cyclohexane	12	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	12	ug/kg	1.0	U	U	Yes	
Benzene	12	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	12	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	250	ug/kg	1.0	U	R	Yes	
Trichloroethene	12	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	12	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	12	ug/kg	1.0	U	U	Yes	
Bromodichlorom	12	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	12	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	12	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	25	ug/kg	1.0	U	U	Yes	
Toluene	210	ug/kg	1.0			Yes	
trans-1,3-Dichloropropene	12	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	12	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	12	ug/kg	1.0	U	U	Yes	
2-Hexanone	25	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	12	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	12	ug/kg	1.0	U	U	Yes	
Chlorobenzene	12	ug/kg	1.0	U	U	Yes	
Ethylbenzene	0.88	ug/kg	1.0	J	J	Yes	
o-Xylene	0.60	ug/kg	1.0	J	J	Yes	
m,p-Xylene	2.0	ug/kg	1.0	J	J	Yes	
Styrene	12	ug/kg	1.0	U	U	Yes	
Bromoform	12	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	12	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	12	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	12	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	1.2	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	12	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	12	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	12	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	12	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ8	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-3	pH: 7.3	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture : 54.6197		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	72	ug/kg	1.0	U	U	Yes	
Aroclor-1221	72	ug/kg	1.0	U	U	Yes	
Aroclor-1232	72	ug/kg	1.0	U	U	Yes	
Aroclor-1242	72	ug/kg	1.0	U	U	Yes	
Aroclor-1248	72	ug/kg	1.0	U	U	Yes	
Aroclor-1254	72	ug/kg	1.0	U	U	Yes	
Aroclor-1260	72	ug/kg	1.0	U	U	Yes	
Aroclor-1262	72	ug/kg	1.0	U	U	Yes	
Aroclor-1268	72	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ8	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-3	pH: 7.3	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture : 54.6197		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	370	ug/kg	1.0	JB	U	Yes	
Phenol	12	ug/kg	1.0	J	J	Yes	
Bis(2-chloroethyl)ether	370	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	370	ug/kg	1.0	U	U	Yes	
2-Methylphenol	370	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	370	ug/kg	1.0	U	U	Yes	
Acetophenone	12	ug/kg	1.0	J	J	Yes	
4-Methylphenol	160	ug/kg	1.0	J	J	Yes	
N-Nitroso-di-n-propylamine	370	ug/kg	1.0	U	U	Yes	
Hexachloroethane	370	ug/kg	1.0	U	U	Yes	
Nitrobenzene	370	ug/kg	1.0	U	U	Yes	
Isophorone	370	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	370	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	370	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	370	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	370	ug/kg	1.0	U	U	Yes	
Naphthalene	12	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	370	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	370	ug/kg	1.0	U	U	Yes	
Caprolactam	370	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	370	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	370	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	370	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	370	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	370	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	370	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	370	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	730	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	370	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	370	ug/kg	1.0	U	U	Yes	
Acenaphthylene	16	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	730	ug/kg	1.0	U	U	Yes	
Acenaphthene	30	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	730	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	730	ug/kg	1.0	U	U	Yes	
Dibenzofuran	20	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	370	ug/kg	1.0	U	U	Yes	
Diethylphthalate	370	ug/kg	1.0	U	U	Yes	
Fluorene	35	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	370	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	730	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	730	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	370	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	370	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	370	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	370	ug/kg	1.0	U	U	Yes	
Atrazine	370	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	730	ug/kg	1.0	U	U	Yes	
Phenanthrene	640	ug/kg	1.0			Yes	
Anthracene	100	ug/kg	1.0	J	J	Yes	
Carbazole	150	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	370	ug/kg	1.0	JB	U	Yes	
Fluoranthene	1700	ug/kg	1.0		J	Yes	
Pyrene	1100	ug/kg	1.0		J	Yes	
Butylbenzylphthalate	370	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	370	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	600	ug/kg	1.0		J	Yes	
Chrysene	870	ug/kg	1.0		J	Yes	
Bis(2-ethylhexyl)	1800	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1800	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	370	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	1500	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	460	ug/kg	1.0			Yes	
Benzo(a)pyrene	750	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	450	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	96	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	350	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	370	ug/kg	1.0	U	U	Yes	
Benzo[e]pyrene	460	ug/Kg	1.0	JN	JN	Yes	
cis-9-Hexadecenoic acid	2400	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, hexadecyl ester	840	ug/Kg	1.0	JN	JN	Yes	
n-Hexadecanoic acid	4300	ug/Kg	1.0	JN	JN	Yes	
Octadecanoic acid	290	ug/Kg	1.0	JN	JN	Yes	
26-Nor-5-cholesten-3.beta.-ol-25-one	1800	ug/Kg	1.0	JN	JN	Yes	
9,10-Anthracenedione	400	ug/Kg	1.0	JN	JN	Yes	
2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,2	910	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, methyl ester	650	ug/Kg	1.0	JN	JN	Yes	
.beta.-Sitosterol	1200	ug/Kg	1.0	JN	JN	Yes	
Total Alkanes	3500	ug/Kg	1.0	J	J	Yes	
Epicholestanol	1100	ug/Kg	1.0	JN	JN	Yes	
Methyl tetradecanoate	330	ug/Kg	1.0	JN	JN	Yes	
Hexylene Glycol	4600	ug/Kg	1.0	JN	JN	Yes	
Tetradecanoic acid, tetradecyl ester	560	ug/Kg	1.0	JN	JN	Yes	
9-Hexadecenoic acid, methyl ester, (Z)-	900	ug/Kg	1.0	JN	JN	Yes	
Tetradecanoic acid	600	ug/Kg	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ8RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-3	pH:	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture : 54.6197		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	9.9	ug/kg	1.0	U	U	Yes	
Chloromethane	9.9	ug/kg	1.0	U	U	Yes	
Vinyl chloride	9.9	ug/kg	1.0	U	U	Yes	
Bromomethane	9.9	ug/kg	1.0	U	U	Yes	
Chloroethane	9.9	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	9.9	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	9.9	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.9	ug/kg	1.0	U	U	Yes	
Acetone	80	ug/kg	1.0	B	U	Yes	
Carbon disulfide	3.2	ug/kg	1.0	J	J	Yes	
Methyl acetate	9.9	ug/kg	1.0	U	U	Yes	
Methylene chloride	20	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	9.9	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	9.9	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	9.9	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	9.9	ug/kg	1.0	U	U	Yes	
2-Butanone	24	ug/kg	1.0			Yes	
Bromochloromet hane	9.9	ug/kg	1.0	U	U	Yes	
Chloroform	9.9	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	9.9	ug/kg	1.0	U	U	Yes	
Cyclohexane	9.9	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	9.9	ug/kg	1.0	U	U	Yes	
Benzene	9.9	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	9.9	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	200	ug/kg	1.0	U	R	Yes	
Trichloroethene	9.9	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	9.9	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	9.9	ug/kg	1.0	U	U	Yes	
Bromodichlorom	9.9	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	9.9	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	9.9	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	20	ug/kg	1.0	U	U	Yes	
Toluene	200	ug/kg	1.0			Yes	
trans-1,3-Dichloropropene	9.9	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	9.9	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	9.9	ug/kg	1.0	U	U	Yes	
2-Hexanone	20	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	9.9	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	9.9	ug/kg	1.0	U	U	Yes	
Chlorobenzene	9.9	ug/kg	1.0	U	U	Yes	
Ethylbenzene	0.87	ug/kg	1.0	J	J	Yes	
o-Xylene	0.57	ug/kg	1.0	J	J	Yes	
m,p-Xylene	1.9	ug/kg	1.0	J	J	Yes	
Styrene	9.9	ug/kg	1.0	U	U	Yes	
Bromoform	9.9	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	9.9	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	9.9	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	9.9	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	0.95	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	9.9	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	9.9	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	9.9	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	9.9	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ9	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-4	pH:	Sample Date: 08082011	Sample Time: 10:30:00
% Moisture : 41.2864		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	8.4	ug/kg	1.0	U	U	Yes	
Chloromethane	8.4	ug/kg	1.0	U	U	Yes	
Vinyl chloride	8.4	ug/kg	1.0	U	U	Yes	
Bromomethane	8.4	ug/kg	1.0	U	U	Yes	
Chloroethane	8.4	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	8.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	8.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	8.4	ug/kg	1.0	U	U	Yes	
Acetone	34	ug/kg	1.0	B	U	Yes	
Carbon disulfide	1.4	ug/kg	1.0	J	J	Yes	
Methyl acetate	8.4	ug/kg	1.0	U	U	Yes	
Methylene chloride	17	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	8.4	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	8.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	8.4	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	8.4	ug/kg	1.0	U	U	Yes	
2-Butanone	14	ug/kg	1.0	J	J	Yes	
Bromochloromet hane	8.4	ug/kg	1.0	U	U	Yes	
Chloroform	8.4	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	8.4	ug/kg	1.0	U	U	Yes	
Cyclohexane	8.4	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	8.4	ug/kg	1.0	U	U	Yes	
Benzene	8.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	8.4	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	170	ug/kg	1.0	U	R	Yes	
Trichloroethene	8.4	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	8.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	8.4	ug/kg	1.0	U	U	Yes	
Bromodichlorom	8.4	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	8.4	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	8.4	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	17	ug/kg	1.0	U	U	Yes	
Toluene	8.4	ug/kg	1.0	J	U	Yes	
trans-1,3-Dichloropropene	8.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	8.4	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	8.4	ug/kg	1.0	U	U	Yes	
2-Hexanone	17	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	8.4	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	8.4	ug/kg	1.0	U	U	Yes	
Chlorobenzene	8.4	ug/kg	1.0	U	U	Yes	
Ethylbenzene	0.41	ug/kg	1.0	J	J	Yes	
o-Xylene	0.30	ug/kg	1.0	J	J	Yes	
m,p-Xylene	0.86	ug/kg	1.0	J	J	Yes	
Styrene	8.4	ug/kg	1.0	U	U	Yes	
Bromoform	8.4	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	8.4	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	8.4	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	0.39	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	8.4	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ9	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-4	pH: 7.6	Sample Date: 08082011	Sample Time: 10:30:00
% Moisture : 41.2864		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	290	ug/kg	1.0	JB	U	Yes	
Phenol	11	ug/kg	1.0	J	J	Yes	
Bis(2-chloroethyl)ether	290	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	290	ug/kg	1.0	U	U	Yes	
2-Methylphenol	290	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	290	ug/kg	1.0	U	U	Yes	
Acetophenone	290	ug/kg	1.0	U	U	Yes	
4-Methylphenol	46	ug/kg	1.0	J	J	Yes	
N-Nitroso-di-n-propylamine	290	ug/kg	1.0	U	U	Yes	
Hexachloroethane	290	ug/kg	1.0	U	U	Yes	
Nitrobenzene	290	ug/kg	1.0	U	U	Yes	
Isophorone	290	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	290	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	290	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	290	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	290	ug/kg	1.0	U	U	Yes	
Naphthalene	13	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	290	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	290	ug/kg	1.0	U	U	Yes	
Caprolactam	290	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	290	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	290	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	290	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	290	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	290	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	290	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	290	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	560	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	290	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	290	ug/kg	1.0	U	U	Yes	
Acenaphthylene	14	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	560	ug/kg	1.0	U	U	Yes	
Acenaphthene	42	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	560	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	560	ug/kg	1.0	U	U	Yes	
Dibenzofuran	28	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	290	ug/kg	1.0	U	U	Yes	
Diethylphthalate	290	ug/kg	1.0	U	U	Yes	
Fluorene	51	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	290	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	560	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	560	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	290	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	290	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	290	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	290	ug/kg	1.0	U	U	Yes	
Atrazine	290	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	560	ug/kg	1.0	U	U	Yes	
Phenanthrene	770	ug/kg	1.0			Yes	
Anthracene	120	ug/kg	1.0	J	J	Yes	
Carbazole	170	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	290	ug/kg	1.0	JB	U	Yes	
Fluoranthene	1900	ug/kg	1.0			Yes	
Pyrene	1100	ug/kg	1.0			Yes	
Butylbenzylphthalate	290	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	290	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	570	ug/kg	1.0			Yes	
Chrysene	810	ug/kg	1.0			Yes	
Bis(2-ethylhexyl)	1400	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1400	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	290	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	1300	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	400	ug/kg	1.0			Yes	
Benzo(a)pyrene	690	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	400	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	84	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	280	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	290	ug/kg	1.0	U	U	Yes	
Cholesterol	1700	ug/Kg	1.0	JN	JN	Yes	
9,10-Anthracenedione	480	ug/Kg	1.0	JN	JN	Yes	
Lupeol	970	ug/Kg	1.0	JN	JN	Yes	
cis-9-Hexadecenoic acid	710	ug/Kg	1.0	JN	JN	Yes	
Cholestan-3-ol, (3.beta.,5.beta.)-	1300	ug/Kg	1.0	JN	JN	Yes	
.gamma.-Sitosterol	3800	ug/Kg	1.0	JN	JN	Yes	
28-Nor-17.alpha.(H)-	420	ug/Kg	1.0	JN	JN	Yes	
2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,2	1000	ug/Kg	1.0	JN	JN	Yes	
9-Hexadecenoic acid, methyl ester, (Z)-	700	ug/Kg	1.0	JN	JN	Yes	
Octadecanoic acid	470	ug/Kg	1.0	JN	JN	Yes	
Stigmasterol	530	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, methyl ester	530	ug/Kg	1.0	JN	JN	Yes	
Tetradecanoic acid	330	ug/Kg	1.0	JN	JN	Yes	
dl-.alpha.-Tocopherol	550	ug/Kg	1.0	JN	JN	Yes	
Total Alkanes	8000	ug/Kg	1.0	J	J	Yes	
n-Hexadecanoic acid	3500	ug/Kg	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ9	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-4	pH: 7.6	Sample Date: 08082011	Sample Time: 10:30:00
% Moisture : 41.2864		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.9	ug/kg	1.0	U	U	Yes	
beta-BHC	2.9	ug/kg	1.0	JP	U	Yes	
delta-BHC	2.9	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	2.9	ug/kg	1.0	U	U	Yes	
Heptachlor	2.9	ug/kg	1.0	U	U	Yes	
Aldrin	2.9	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2.9	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.9	ug/kg	1.0	U	U	Yes	
Dieldrin	2.4	ug/kg	1.0	JP	J	Yes	
4,4'-DDE	3.1	ug/kg	1.0	JP	J	Yes	
Endrin	5.6	ug/kg	1.0	U	U	Yes	
Endosulfan II	5.6	ug/kg	1.0	JP	U	Yes	
4,4'-DDD	5.6	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	5.6	ug/kg	1.0	U	U	Yes	
4,4'-DDT	3.8	ug/kg	1.0	JP	J	Yes	
Methoxychlor	29	ug/kg	1.0	JP	U	Yes	
Endrin ketone	5.6	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	5.6	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.9	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.9	ug/kg	1.0	U	U	Yes	
Toxaphene	290	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KQ9	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-4	pH: 7.6	Sample Date: 08082011	Sample Time: 10:30:00
% Moisture : 41.2864		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	56	ug/kg	1.0	U	U	Yes	
Aroclor-1221	56	ug/kg	1.0	U	U	Yes	
Aroclor-1232	56	ug/kg	1.0	U	U	Yes	
Aroclor-1242	56	ug/kg	1.0	U	U	Yes	
Aroclor-1248	56	ug/kg	1.0	U	U	Yes	
Aroclor-1254	56	ug/kg	1.0	U	U	Yes	
Aroclor-1260	56	ug/kg	1.0	U	U	Yes	
Aroclor-1262	56	ug/kg	1.0	U	U	Yes	
Aroclor-1268	56	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR0	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-5	pH:	Sample Date: 08082011	Sample Time: 10:40:00
% Moisture : 26.9172		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.5	ug/kg	1.0	U	U	Yes	
Chloromethane	6.5	ug/kg	1.0	U	U	Yes	
Vinyl chloride	6.5	ug/kg	1.0	U	U	Yes	
Bromomethane	6.5	ug/kg	1.0	U	U	Yes	
Chloroethane	6.5	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	6.5	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	6.5	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	ug/kg	1.0	U	U	Yes	
Acetone	26	ug/kg	1.0	B	U	Yes	
Carbon disulfide	1.5	ug/kg	1.0	J	J	Yes	
Methyl acetate	6.5	ug/kg	1.0	U	U	Yes	
Methylene chloride	13	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	6.5	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	6.5	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	6.5	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.5	ug/kg	1.0	U	U	Yes	
2-Butanone	12	ug/kg	1.0	J	J	Yes	
Bromochloromet hane	6.5	ug/kg	1.0	U	U	Yes	
Chloroform	6.5	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.5	ug/kg	1.0	U	U	Yes	
Cyclohexane	6.5	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	6.5	ug/kg	1.0	U	U	Yes	
Benzene	6.5	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	6.5	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	130	ug/kg	1.0	U	R	Yes	
Trichloroethene	6.5	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	6.5	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	6.5	ug/kg	1.0	U	U	Yes	
Bromodichlorom	6.5	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	6.5	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	6.5	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	13	ug/kg	1.0	U	U	Yes	
Toluene	13	ug/kg	1.0		U	Yes	
trans-1,3-Dichloropropene	6.5	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	6.5	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	6.5	ug/kg	1.0	U	U	Yes	
2-Hexanone	13	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	6.5	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	6.5	ug/kg	1.0	U	U	Yes	
Chlorobenzene	6.5	ug/kg	1.0	U	U	Yes	
Ethylbenzene	0.39	ug/kg	1.0	J	J	Yes	
o-Xylene	0.35	ug/kg	1.0	J	J	Yes	
m,p-Xylene	0.89	ug/kg	1.0	J	J	Yes	
Styrene	6.5	ug/kg	1.0	U	U	Yes	
Bromoform	6.5	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	6.5	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	6.5	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	6.5	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	0.49	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	6.5	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	6.5	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	6.5	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	6.5	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR0	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-5	pH: 7.5	Sample Date: 08082011	Sample Time: 10:40:00
% Moisture : 26.9172		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	45	ug/kg	1.0	U	U	Yes	
Aroclor-1221	45	ug/kg	1.0	U	U	Yes	
Aroclor-1232	45	ug/kg	1.0	U	U	Yes	
Aroclor-1242	45	ug/kg	1.0	U	U	Yes	
Aroclor-1248	45	ug/kg	1.0	U	U	Yes	
Aroclor-1254	45	ug/kg	1.0	U	U	Yes	
Aroclor-1260	45	ug/kg	1.0	U	U	Yes	
Aroclor-1262	45	ug/kg	1.0	U	U	Yes	
Aroclor-1268	45	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR0	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-5	pH: 7.5	Sample Date: 08082011	Sample Time: 10:40:00
% Moisture : 26.9172		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	230	ug/kg	1.0	JB	U	Yes	
Phenol	230	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	230	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	230	ug/kg	1.0	U	U	Yes	
2-Methylphenol	230	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	230	ug/kg	1.0	U	U	Yes	
Acetophenone	10	ug/kg	1.0	J	J	Yes	
4-Methylphenol	35	ug/kg	1.0	J	J	Yes	
N-Nitroso-di-n-propylamine	230	ug/kg	1.0	U	U	Yes	
Hexachloroethane	230	ug/kg	1.0	U	U	Yes	
Nitrobenzene	230	ug/kg	1.0	U	U	Yes	
Isophorone	230	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	230	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	230	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	230	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	230	ug/kg	1.0	U	U	Yes	
Naphthalene	14	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	230	ug/kg	1.0	U	UJ	Yes	
Hexachlorobutadiene	230	ug/kg	1.0	U	U	Yes	
Caprolactam	230	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	230	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	230	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	230	ug/kg	1.0	U	UJ	Yes	
2,4,6-Trichlorophenol	230	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	230	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	230	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	230	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	450	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	230	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	230	ug/kg	1.0	U	U	Yes	
Acenaphthylene	11	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	450	ug/kg	1.0	U	U	Yes	
Acenaphthene	37	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	450	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	450	ug/kg	1.0	U	U	Yes	
Dibenzofuran	24	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	230	ug/kg	1.0	U	U	Yes	
Diethylphthalate	230	ug/kg	1.0	U	U	Yes	
Fluorene	42	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	230	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	450	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	450	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	230	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	230	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	230	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	230	ug/kg	1.0	U	U	Yes	
Atrazine	230	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	450	ug/kg	1.0	U	U	Yes	
Phenanthrene	570	ug/kg	1.0			Yes	
Anthracene	94	ug/kg	1.0	J	J	Yes	
Carbazole	120	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	230	ug/kg	1.0	JB	U	Yes	
Fluoranthene	1300	ug/kg	1.0			Yes	
Pyrene	810	ug/kg	1.0			Yes	
Butylbenzylphthalate	230	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	230	ug/kg	1.0	U	UJ	Yes	
Benzo(a)anthracene	440	ug/kg	1.0			Yes	
Chrysene	560	ug/kg	1.0			Yes	
Bis(2-ethylhexyl)	1200	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1200	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	230	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	950	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	280	ug/kg	1.0			Yes	
Benzo(a)pyrene	490	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	270	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	61	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	190	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	230	ug/kg	1.0	U	U	Yes	
9-Hexadecenoic acid, methyl ester, (Z)-	540	ug/Kg	1.0	JN	JN	Yes	
Total Alkanes	3000	ug/Kg	1.0	J	J	Yes	
9-Hexadecenoic acid	480	ug/Kg	1.0	JN	JN	Yes	
9,10-Anthracenedione	340	ug/Kg	1.0	JN	JN	Yes	
Campesterol	340	ug/Kg	1.0	JN	JN	Yes	
Squalene	560	ug/Kg	1.0	JN	JN	Yes	
Cholesterol	890	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, hexadecyl ester	280	ug/Kg	1.0	JN	JN	Yes	
6-Isopropenyl-4,8a-dimethyl-4a,5,6,7,8,8a-hexahy	570	ug/Kg	1.0	JN	JN	Yes	
dl-.alpha.-Tocopherol	240	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, methyl ester	390	ug/Kg	1.0	JN	JN	Yes	
.beta.-Sitosterol	2100	ug/Kg	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR0	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-5	pH: 7.5	Sample Date: 08082011	Sample Time: 10:40:00
% Moisture : 26.9172		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.3	ug/kg	1.0	U	U	Yes	
beta-BHC	2.3	ug/kg	1.0	U	U	Yes	
delta-BHC	2.3	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	2.3	ug/kg	1.0	U	U	Yes	
Heptachlor	2.3	ug/kg	1.0	U	U	Yes	
Aldrin	2.3	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2.3	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.3	ug/kg	1.0	U	U	Yes	
Dieldrin	2.1	ug/kg	1.0	JP	J	Yes	
4,4'-DDE	2.0	ug/kg	1.0	JP	J	Yes	
Endrin	4.5	ug/kg	1.0	U	U	Yes	
Endosulfan II	4.5	ug/kg	1.0	JP	U	Yes	
4,4'-DDD	4.5	ug/kg	1.0	JP	U	Yes	
Endosulfan sulfate	4.5	ug/kg	1.0	U	U	Yes	
4,4'-DDT	2.8	ug/kg	1.0	JP	J	Yes	
Methoxychlor	23	ug/kg	1.0	U	U	Yes	
Endrin ketone	4.5	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	4.5	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.3	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.3	ug/kg	1.0	U	U	Yes	
Toxaphene	230	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR0RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-5	pH:	Sample Date: 08082011	Sample Time: 10:40:00
% Moisture : 26.9172		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.2	ug/kg	1.0	U	U	Yes	
Chloromethane	6.2	ug/kg	1.0	U	U	Yes	
Vinyl chloride	6.2	ug/kg	1.0	U	U	Yes	
Bromomethane	6.2	ug/kg	1.0	U	U	Yes	
Chloroethane	6.2	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	6.2	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	6.2	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	ug/kg	1.0	U	U	Yes	
Acetone	24	ug/kg	1.0	B	U	Yes	
Carbon disulfide	1.7	ug/kg	1.0	J	J	Yes	
Methyl acetate	6.2	ug/kg	1.0	U	U	Yes	
Methylene chloride	12	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	6.2	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	6.2	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	6.2	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.2	ug/kg	1.0	U	U	Yes	
2-Butanone	12	ug/kg	1.0	J	J	Yes	
Bromochloromet hane	6.2	ug/kg	1.0	U	U	Yes	
Chloroform	6.2	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.2	ug/kg	1.0	U	U	Yes	
Cyclohexane	6.2	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	6.2	ug/kg	1.0	U	U	Yes	
Benzene	6.2	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	6.2	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	120	ug/kg	1.0	U	R	Yes	
Trichloroethene	6.2	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	6.2	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	6.2	ug/kg	1.0	U	U	Yes	
Bromodichlorom	6.2	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	6.2	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	6.2	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	12	ug/kg	1.0	U	U	Yes	
Toluene	6.2	ug/kg	1.0	J	U	Yes	
trans-1,3-Dichloropropene	6.2	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	6.2	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	6.2	ug/kg	1.0	U	U	Yes	
2-Hexanone	12	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	6.2	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	6.2	ug/kg	1.0	U	U	Yes	
Chlorobenzene	6.2	ug/kg	1.0	U	U	Yes	
Ethylbenzene	0.30	ug/kg	1.0	J	J	Yes	
o-Xylene	0.24	ug/kg	1.0	J	J	Yes	
m,p-Xylene	0.66	ug/kg	1.0	J	J	Yes	
Styrene	6.2	ug/kg	1.0	U	U	Yes	
Bromoform	6.2	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	6.2	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	6.2	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	6.2	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	0.34	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	6.2	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	6.2	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	6.2	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	6.2	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR1	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-6	pH: 7.6	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture : 32.2226		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	250	ug/kg	1.0	JB	U	Yes	
Phenol	250	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	250	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	250	ug/kg	1.0	U	U	Yes	
2-Methylphenol	250	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	250	ug/kg	1.0	U	U	Yes	
Acetophenone	9.6	ug/kg	1.0	J	J	Yes	
4-Methylphenol	250	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	250	ug/kg	1.0	U	U	Yes	
Hexachloroethane	250	ug/kg	1.0	U	U	Yes	
Nitrobenzene	250	ug/kg	1.0	U	U	Yes	
Isophorone	250	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	250	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	250	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	250	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	250	ug/kg	1.0	U	U	Yes	
Naphthalene	12	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	250	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	250	ug/kg	1.0	U	U	Yes	
Caprolactam	250	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	250	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	8.4	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	250	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	250	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	250	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	250	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	250	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	490	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	250	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	250	ug/kg	1.0	U	U	Yes	
Acenaphthylene	15	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	490	ug/kg	1.0	U	U	Yes	
Acenaphthene	44	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	490	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	490	ug/kg	1.0	U	U	Yes	
Dibenzofuran	31	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	250	ug/kg	1.0	U	U	Yes	
Diethylphthalate	250	ug/kg	1.0	U	U	Yes	
Fluorene	57	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	250	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	490	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	490	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	250	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	250	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	250	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	250	ug/kg	1.0	U	U	Yes	
Atrazine	250	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	490	ug/kg	1.0	U	U	Yes	
Phenanthrene	770	ug/kg	1.0			Yes	
Anthracene	130	ug/kg	1.0	J	J	Yes	
Carbazole	160	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	250	ug/kg	1.0	JB	U	Yes	
Fluoranthene	2000	ug/kg	1.0		J	Yes	
Pyrene	1200	ug/kg	1.0		J	Yes	
Butylbenzylphthalate	33	ug/kg	1.0	J	J	Yes	
3,3'-Dichlorobenzidine	250	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	670	ug/kg	1.0		J	Yes	
Chrysene	850	ug/kg	1.0		J	Yes	
Bis(2-ethylhexyl)	1200	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1200	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	250	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	1600	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	420	ug/kg	1.0			Yes	
Benzo(a)pyrene	770	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	430	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	94	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	320	ug/kg	1.0			Yes	
2,3,4,6-Tetrachlorophenol	250	ug/kg	1.0	U	U	Yes	
Cholestan-3-ol, (3.beta.,5.beta.)-	620	ug/Kg	1.0	JN	JN	Yes	
Squalene	840	ug/Kg	1.0	JN	JN	Yes	
Benzo[e]pyrene	440	ug/Kg	1.0	JN	JN	Yes	
9,10-Anthracenedione	440	ug/Kg	1.0	JN	JN	Yes	
26-Nor-5-cholesten-3.beta.-ol-25-one	840	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, methyl ester	280	ug/Kg	1.0	JN	JN	Yes	
Total Alkanes	3000	ug/Kg	1.0	J	J	Yes	
dl-.alpha.-Tocopherol	560	ug/Kg	1.0	JN	JN	Yes	
Fluoranthene, 2-methyl-	200	ug/Kg	1.0	JN	JN	Yes	
Hexylene Glycol	370	ug/Kg	1.0	JN	JN	Yes	
Campesterol	210	ug/Kg	1.0	JN	JN	Yes	
7-Isopropenyl-1,4a-dimethyl-4,4a,5,6,7,8-hexahyd	240	ug/Kg	1.0	JN	JN	Yes	
Hexadecenoic acid, Z-11-	400	ug/Kg	1.0	JN	JN	Yes	
.gamma.-Sitosterol	4000	ug/Kg	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR1	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-6	pH: 7.6	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture : 32.2226		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.5	ug/kg	1.0	U	U	Yes	
beta-BHC	2.5	ug/kg	1.0	JP	U	Yes	
delta-BHC	0.68	ug/kg	1.0	JBP	J	Yes	
gamma-BHC (Lindane)	2.5	ug/kg	1.0	U	U	Yes	
Heptachlor	2.5	ug/kg	1.0	U	U	Yes	
Aldrin	2.5	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	0.80	ug/kg	1.0	JP	J	Yes	
Endosulfan I	2.5	ug/kg	1.0	U	U	Yes	
Dieldrin	1.7	ug/kg	1.0	JP	J	Yes	
4,4'-DDE	5.2	ug/kg	1.0	P	J	Yes	
Endrin	4.9	ug/kg	1.0	U	U	Yes	
Endosulfan II	4.9	ug/kg	1.0	U	U	Yes	
4,4'-DDD	3.9	ug/kg	1.0	JP	J	Yes	
Endosulfan sulfate	4.9	ug/kg	1.0	U	U	Yes	
4,4'-DDT	3.3	ug/kg	1.0	JP	J	Yes	
Methoxychlor	25	ug/kg	1.0	U	U	Yes	
Endrin ketone	4.9	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	4.9	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.5	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.5	ug/kg	1.0	U	U	Yes	
Toxaphene	250	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR1	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-6	pH: 7.6	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture : 32.2226		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	49	ug/kg	1.0	U	U	Yes	
Aroclor-1221	49	ug/kg	1.0	U	U	Yes	
Aroclor-1232	49	ug/kg	1.0	U	U	Yes	
Aroclor-1242	49	ug/kg	1.0	U	U	Yes	
Aroclor-1248	49	ug/kg	1.0	U	U	Yes	
Aroclor-1254	49	ug/kg	1.0	U	U	Yes	
Aroclor-1260	49	ug/kg	1.0	U	U	Yes	
Aroclor-1262	49	ug/kg	1.0	U	U	Yes	
Aroclor-1268	49	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR1	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-6	pH:	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture : 32.2226		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	8.4	ug/kg	1.0	U	U	Yes	
Chloromethane	8.4	ug/kg	1.0	U	U	Yes	
Vinyl chloride	8.4	ug/kg	1.0	U	U	Yes	
Bromomethane	8.4	ug/kg	1.0	U	U	Yes	
Chloroethane	8.4	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	8.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	8.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	8.4	ug/kg	1.0	U	U	Yes	
Acetone	34	ug/kg	1.0	B	U	Yes	
Carbon disulfide	1.8	ug/kg	1.0	J	J	Yes	
Methyl acetate	8.4	ug/kg	1.0	U	U	Yes	
Methylene chloride	17	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	8.4	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	8.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	8.4	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	8.4	ug/kg	1.0	U	U	Yes	
2-Butanone	22	ug/kg	1.0			Yes	
Bromochloromet hane	8.4	ug/kg	1.0	U	U	Yes	
Chloroform	8.4	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	8.4	ug/kg	1.0	U	U	Yes	
Cyclohexane	8.4	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	8.4	ug/kg	1.0	U	U	Yes	
Benzene	8.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	8.4	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	170	ug/kg	1.0	U	R	Yes	
Trichloroethene	8.4	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	8.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	8.4	ug/kg	1.0	U	U	Yes	
Bromodichlorom	8.4	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	8.4	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	8.4	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	17	ug/kg	1.0	U	U	Yes	
Toluene	8.4	ug/kg	1.0	J	U	Yes	
trans-1,3-Dichloropropene	8.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	8.4	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	8.4	ug/kg	1.0	U	U	Yes	
2-Hexanone	17	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	8.4	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	8.4	ug/kg	1.0	U	U	Yes	
Chlorobenzene	8.4	ug/kg	1.0	U	U	Yes	
Ethylbenzene	8.4	ug/kg	1.0	U	U	Yes	
o-Xylene	8.4	ug/kg	1.0	U	U	Yes	
m,p-Xylene	0.31	ug/kg	1.0	J	J	Yes	
Styrene	8.4	ug/kg	1.0	U	U	Yes	
Bromoform	8.4	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	8.4	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	8.4	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	0.84	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	8.4	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR2	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-7	pH: 7.5	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture : 21.2963		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	650	ug/kg	3.0	U	U	Yes	
Phenol	650	ug/kg	3.0	U	U	Yes	
Bis(2-chloroethyl)ether	650	ug/kg	3.0	U	U	Yes	
2-Chlorophenol	650	ug/kg	3.0	U	U	Yes	
2-Methylphenol	650	ug/kg	3.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	650	ug/kg	3.0	U	U	Yes	
Acetophenone	650	ug/kg	3.0	U	U	Yes	
4-Methylphenol	650	ug/kg	3.0	U	U	Yes	
N-Nitroso-di-n-propylamine	650	ug/kg	3.0	U	U	Yes	
Hexachloroethane	650	ug/kg	3.0	U	U	Yes	
Nitrobenzene	650	ug/kg	3.0	U	U	Yes	
Isophorone	650	ug/kg	3.0	U	U	Yes	
2-Nitrophenol	650	ug/kg	3.0	U	U	Yes	
2,4-Dimethylphenol	650	ug/kg	3.0	U	U	Yes	
Bis(2-chloroethoxy)methane	650	ug/kg	3.0	U	U	Yes	
2,4-Dichlorophenol	650	ug/kg	3.0	U	U	Yes	
Naphthalene	51	ug/kg	3.0	J	J	Yes	
4-Chloroaniline	650	ug/kg	3.0	U	U	Yes	
Hexachlorobutadiene	650	ug/kg	3.0	U	U	Yes	
Caprolactam	650	ug/kg	3.0	U	U	Yes	
4-Chloro-3-methylphenol	650	ug/kg	3.0	U	U	Yes	
2-Methylnaphthalene	27	ug/kg	3.0	J	J	Yes	
Hexachlorocyclopentadiene	650	ug/kg	3.0	U	U	Yes	
2,4,6-Trichlorophenol	650	ug/kg	3.0	U	U	Yes	
2,4,5-Trichlorophenol	650	ug/kg	3.0	U	U	Yes	
1,1'-Biphenyl	650	ug/kg	3.0	U	U	Yes	
2-Chloronaphthalene	650	ug/kg	3.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	1300	ug/kg	3.0	U	U	Yes	
Dimethylphthalate	650	ug/kg	3.0	U	U	Yes	
2,6-Dinitrotoluene	650	ug/kg	3.0	U	U	Yes	
Acenaphthylene	24	ug/kg	3.0	J	J	Yes	
3-Nitroaniline	1300	ug/kg	3.0	U	U	Yes	
Acenaphthene	240	ug/kg	3.0	J	J	Yes	
2,4-Dinitrophenol	1300	ug/kg	3.0	U	U	Yes	
4-Nitrophenol	1300	ug/kg	3.0	U	U	Yes	
Dibenzofuran	160	ug/kg	3.0	J	J	Yes	
2,4-Dinitrotoluene	650	ug/kg	3.0	U	U	Yes	
Diethylphthalate	650	ug/kg	3.0	U	U	Yes	
Fluorene	310	ug/kg	3.0	J	J	Yes	
4-Chlorophenyl-phenylether	650	ug/kg	3.0	U	U	Yes	
4-Nitroaniline	1300	ug/kg	3.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	1300	ug/kg	3.0	U	U	Yes	
N-Nitrosodiphenylamine	650	ug/kg	3.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	650	ug/kg	3.0	U	U	Yes	
4-Bromophenyl-phenylether	650	ug/kg	3.0	U	U	Yes	
Hexachlorobenzene	650	ug/kg	3.0	U	U	Yes	
Atrazine	650	ug/kg	3.0	U	U	Yes	
Pentachlorophenol	1300	ug/kg	3.0	U	U	Yes	
Phenanthrene	3500	ug/kg	3.0			Yes	
Anthracene	700	ug/kg	3.0			Yes	
Carbazole	630	ug/kg	3.0	J	J	Yes	
Di-n-butylphthalate	650	ug/kg	3.0	JB	U	Yes	
Fluoranthene	6200	ug/kg	3.0			Yes	
Pyrene	3900	ug/kg	3.0			Yes	
Butylbenzylphthalate	24	ug/kg	3.0	J	J	Yes	
3,3'-Dichlorobenzidine	650	ug/kg	3.0	U	U	Yes	
Benzo(a)anthracene	2000	ug/kg	3.0			Yes	
Chrysene	2100	ug/kg	3.0			Yes	
Bis(2-ethylhexyl)	3200	ug/kg	3.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	3200	ug/kg	3.0	JB	U	Yes	
Di-n-octylphthalate	650	ug/kg	3.0	U	U	Yes	
Benzo(b)fluoranthene	3300	ug/kg	3.0			Yes	
Benzo(k)fluoranthene	1200	ug/kg	3.0			Yes	
Benzo(a)pyrene	2100	ug/kg	3.0			Yes	
Indeno(1,2,3-cd)pyrene	1200	ug/kg	3.0			Yes	
Dibenzo(a,h)anthracene	260	ug/kg	3.0	J	J	Yes	
Benzo(g,h,i)perylene	950	ug/kg	3.0			Yes	
2,3,4,6-Tetrachlorophenol	650	ug/kg	3.0	U	U	Yes	
n-Hexadecanoic acid	430	ug/Kg	3.0	JN	JN	Yes	
4H-Cyclopenta[def]phenanthrene	570	ug/Kg	3.0	JN	JN	Yes	
Pyrene, 1-methyl-	360	ug/Kg	3.0	JN	JN	Yes	
Pyrene, 1-methyl-	520	ug/Kg	3.0	JN	JN	Yes	
Phenanthrene, 2-methyl-	280	ug/Kg	3.0	JN	JN	Yes	
Hexadecanoic acid, methyl ester	530	ug/Kg	3.0	JN	JN	Yes	
Total Alkanes	1600	ug/Kg	3.0	J	J	Yes	
Benzo[e]pyrene	840	ug/Kg	3.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR2	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-7	pH: 7.5	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture : 21.2963		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.2	ug/kg	1.0	U	U	Yes	
beta-BHC	2.2	ug/kg	1.0	U	U	Yes	
delta-BHC	2.2	ug/kg	1.0	U	U	Yes	
gamma-BHC (Lindane)	2.2	ug/kg	1.0	U	U	Yes	
Heptachlor	2.2	ug/kg	1.0	U	U	Yes	
Aldrin	2.2	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2.2	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.2	ug/kg	1.0	U	U	Yes	
Dieldrin	2.2	ug/kg	1.0	JP	U	Yes	
4,4'-DDE	1.9	ug/kg	1.0	JP	J	Yes	
Endrin	4.2	ug/kg	1.0	U	U	Yes	
Endosulfan II	2.2	ug/kg	1.0	JP	U	Yes	
4,4'-DDD	5.8	ug/kg	1.0			Yes	
Endosulfan sulfate	4.2	ug/kg	1.0	U	U	Yes	
4,4'-DDT	4.8	ug/kg	1.0			Yes	
Methoxychlor	12	ug/kg	1.0	JP	J	Yes	
Endrin ketone	4.2	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	1.2	ug/kg	1.0	JP	J	Yes	
alpha-Chlordane	2.2	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	3.4	ug/kg	1.0	P	J	Yes	
Toxaphene	220	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR2	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-7	pH:	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture : 21.2963		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.9	ug/kg	1.0	U	U	Yes	
Chloromethane	5.9	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.9	ug/kg	1.0	U	U	Yes	
Bromomethane	5.9	ug/kg	1.0	U	U	Yes	
Chloroethane	5.9	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.9	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.9	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	ug/kg	1.0	U	U	Yes	
Acetone	24	ug/kg	1.0	JB	U	Yes	
Carbon disulfide	5.9	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.9	ug/kg	1.0	U	U	Yes	
Methylene chloride	12	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	5.9	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.9	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.9	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.9	ug/kg	1.0	U	U	Yes	
2-Butanone	8.1	ug/kg	1.0	J	J	Yes	
Bromochloromet hane	5.9	ug/kg	1.0	U	U	Yes	
Chloroform	5.9	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.9	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.9	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.9	ug/kg	1.0	U	U	Yes	
Benzene	5.9	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.9	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	120	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.9	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.9	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.9	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.9	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.9	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.9	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	12	ug/kg	1.0	U	U	Yes	
Toluene	5.9	ug/kg	1.0	J	U.	Yes	
trans-1,3-Dichloropropene	5.9	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.9	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.9	ug/kg	1.0	U	U	Yes	
2-Hexanone	12	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.9	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.9	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.9	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.9	ug/kg	1.0	U	U	Yes	
o-Xylene	5.9	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.9	ug/kg	1.0	U	U	Yes	
Styrene	5.9	ug/kg	1.0	U	U	Yes	
Bromoform	5.9	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	5.9	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.9	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.9	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.9	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.9	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.9	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.9	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.9	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR2	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-7	pH: 7.5	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture : 21.2963		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	42	ug/kg	1.0	U	U	Yes	
Aroclor-1221	42	ug/kg	1.0	U	U	Yes	
Aroclor-1232	42	ug/kg	1.0	U	U	Yes	
Aroclor-1242	42	ug/kg	1.0	U	U	Yes	
Aroclor-1248	42	ug/kg	1.0	U	U	Yes	
Aroclor-1254	42	ug/kg	1.0	U	U	Yes	
Aroclor-1260	42	ug/kg	1.0	U	U	Yes	
Aroclor-1262	42	ug/kg	1.0	U	U	Yes	
Aroclor-1268	42	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR3	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-8	pH: 7.5	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture : 29.8773		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	47	ug/kg	1.0	U	U	Yes	
Aroclor-1221	47	ug/kg	1.0	U	U	Yes	
Aroclor-1232	47	ug/kg	1.0	U	U	Yes	
Aroclor-1242	47	ug/kg	1.0	U	U	Yes	
Aroclor-1248	47	ug/kg	1.0	U	U	Yes	
Aroclor-1254	47	ug/kg	1.0	U	U	Yes	
Aroclor-1260	47	ug/kg	1.0	U	U	Yes	
Aroclor-1262	47	ug/kg	1.0	U	U	Yes	
Aroclor-1268	47	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR3	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-8	pH: 7.5	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture : 29.8773		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.4	ug/kg	1.0	U	U	Yes	
beta-BHC	2.4	ug/kg	1.0	JP	U	Yes	
delta-BHC	2.4	ug/kg	1.0	JB	U	Yes	
gamma-BHC (Lindane)	2.4	ug/kg	1.0	U	U	Yes	
Heptachlor	2.4	ug/kg	1.0	U	U	Yes	
Aldrin	2.4	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2.4	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.4	ug/kg	1.0	U	U	Yes	
Dieldrin	4.7	ug/kg	1.0	U	U	Yes	
4,4'-DDE	1.8	ug/kg	1.0	JP	J	Yes	
Endrin	4.7	ug/kg	1.0	U	U	Yes	
Endosulfan II	4.7	ug/kg	1.0	U	U	Yes	
4,4'-DDD	4.7	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	4.7	ug/kg	1.0	U	U	Yes	
4,4'-DDT	3.6	ug/kg	1.0	JP	J	Yes	
Methoxychlor	24	ug/kg	1.0	JP	U	Yes	
Endrin ketone	4.7	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	4.7	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.4	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.4	ug/kg	1.0	U	U	Yes	
Toxaphene	240	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR3	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-8	pH:	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture : 29.8773		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.1	ug/kg	1.0	U	U	Yes	
Chloromethane	6.1	ug/kg	1.0	U	U	Yes	
Vinyl chloride	6.1	ug/kg	1.0	U	U	Yes	
Bromomethane	6.1	ug/kg	1.0	U	U	Yes	
Chloroethane	6.1	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	6.1	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	6.1	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	ug/kg	1.0	U	U	Yes	
Acetone	24	ug/kg	1.0	B	U	Yes	
Carbon disulfide	0.88	ug/kg	1.0	J	J	Yes	
Methyl acetate	6.1	ug/kg	1.0	U	U	Yes	
Methylene chloride	12	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	6.1	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	6.1	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	6.1	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.1	ug/kg	1.0	U	U	Yes	
2-Butanone	13	ug/kg	1.0			Yes	
Bromochloromet hane	6.1	ug/kg	1.0	U	U	Yes	
Chloroform	6.1	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.1	ug/kg	1.0	U	U	Yes	
Cyclohexane	6.1	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	6.1	ug/kg	1.0	U	U	Yes	
Benzene	6.1	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	6.1	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	120	ug/kg	1.0	U	R	Yes	
Trichloroethene	6.1	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	6.1	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	6.1	ug/kg	1.0	U	U	Yes	
Bromodichlorom	6.1	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	6.1	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	6.1	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	12	ug/kg	1.0	U	U	Yes	
Toluene	6.1	ug/kg	1.0	J	U	Yes	
trans-1,3-Dichloropropene	6.1	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	6.1	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	6.1	ug/kg	1.0	U	U	Yes	
2-Hexanone	12	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	6.1	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	6.1	ug/kg	1.0	U	U	Yes	
Chlorobenzene	6.1	ug/kg	1.0	U	U	Yes	
Ethylbenzene	0.19	ug/kg	1.0	J	J	Yes	
o-Xylene	6.1	ug/kg	1.0	U	U	Yes	
m,p-Xylene	0.29	ug/kg	1.0	J	J	Yes	
Styrene	6.1	ug/kg	1.0	U	U	Yes	
Bromoform	6.1	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	6.1	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	6.1	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	6.1	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	0.52	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	6.1	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	6.1	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	6.1	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	6.1	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR3	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-8	pH: 7.5	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture : 29.8773		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	240	ug/kg	1.0	JB	U	Yes	
Phenol	8.3	ug/kg	1.0	J	J	Yes	
Bis(2-chloroethyl)ether	240	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	240	ug/kg	1.0	U	U	Yes	
2-Methylphenol	240	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	240	ug/kg	1.0	U	U	Yes	
Acetophenone	9.6	ug/kg	1.0	J	J	Yes	
4-Methylphenol	240	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	240	ug/kg	1.0	U	U	Yes	
Hexachloroethane	240	ug/kg	1.0	U	U	Yes	
Nitrobenzene	240	ug/kg	1.0	U	U	Yes	
Isophorone	240	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	240	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	240	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	240	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	240	ug/kg	1.0	U	U	Yes	
Naphthalene	17	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	240	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	240	ug/kg	1.0	U	U	Yes	
Caprolactam	240	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	240	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	8.9	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	240	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	240	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	240	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	240	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	240	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	470	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	240	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	240	ug/kg	1.0	U	U	Yes	
Acenaphthylene	15	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	470	ug/kg	1.0	U	U	Yes	
Acenaphthene	49	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	470	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	470	ug/kg	1.0	U	U	Yes	
Dibenzofuran	37	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	240	ug/kg	1.0	U	U	Yes	
Diethylphthalate	240	ug/kg	1.0	U	U	Yes	
Fluorene	52	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	240	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	470	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	470	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	240	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	240	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	240	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	240	ug/kg	1.0	U	U	Yes	
Atrazine	240	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	470	ug/kg	1.0	U	U	Yes	
Phenanthrene	960	ug/kg	1.0			Yes	
Anthracene	120	ug/kg	1.0	J	J	Yes	
Carbazole	190	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	240	ug/kg	1.0	JB	U	Yes	
Fluoranthene	2200	ug/kg	1.0		J	Yes	
Pyrene	1300	ug/kg	1.0		J	Yes	
Butylbenzylphthalate	240	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	240	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	640	ug/kg	1.0		J	Yes	
Chrysene	860	ug/kg	1.0		J	Yes	
Bis(2-ethylhexyl)	1200	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1200	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	240	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	1600	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	510	ug/kg	1.0			Yes	
Benzo(a)pyrene	820	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	460	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	100	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	340	ug/kg	1.0			Yes	
2,3,4,6-Tetrachlorophenol	240	ug/kg	1.0	U	U	Yes	
5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan	220	ug/Kg	1.0	JN	JN	Yes	
Total Alkanes	880	ug/Kg	1.0	J	J	Yes	
1-Octadecanesulphonyl chloride	590	ug/Kg	1.0	JN	JN	Yes	
Phytol	220	ug/Kg	1.0	JN	JN	Yes	
9,10-Anthracenedione	510	ug/Kg	1.0	JN	JN	Yes	
Squalene	370	ug/Kg	1.0	JN	JN	Yes	
Hexadecanoic acid, methyl ester	940	ug/Kg	1.0	JN	JN	Yes	
Methyl 5,8,11,14,17-eicosapentaenoate	180	ug/Kg	1.0	JN	JN	Yes	
26-Nor-5-cholesten-3,beta,-ol-25-one	440	ug/Kg	1.0	JN	JN	Yes	
9-Hexadecenoic acid, methyl ester, (Z)-	1100	ug/Kg	1.0	JN	JN	Yes	
Methyl tetradecanoate	400	ug/Kg	1.0	JN	JN	Yes	
cis-9-Hexadecenoic acid	970	ug/Kg	1.0	JN	JN	Yes	
cis,cis,cis-7,10,13-Hexadecatrienal	260	ug/Kg	1.0	JN	JN	Yes	
.beta.-Sitosterol	680	ug/Kg	1.0	JN	JN	Yes	
Pyrene, 1-methyl-	190	ug/Kg	1.0	JN	JN	Yes	
Benzo[e]pyrene	280	ug/Kg	1.0	JN	JN	Yes	
Tetradecanoic acid	260	ug/Kg	1.0	JN	JN	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: E5KR3RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-8	pH:	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture : 29.8773		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.3	ug/kg	1.0	U	U	Yes	
Chloromethane	6.3	ug/kg	1.0	U	U	Yes	
Vinyl chloride	6.3	ug/kg	1.0	U	U	Yes	
Bromomethane	6.3	ug/kg	1.0	U	U	Yes	
Chloroethane	6.3	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	6.3	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	6.3	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.3	ug/kg	1.0	U	U	Yes	
Acetone	26	ug/kg	1.0	B	U	Yes	
Carbon disulfide	6.3	ug/kg	1.0	U	U	Yes	
Methyl acetate	6.3	ug/kg	1.0	U	U	Yes	
Methylene chloride	13	ug/kg	1.0	J	U	Yes	
trans-1,2-Dichloroethene	6.3	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	6.3	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	6.3	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.3	ug/kg	1.0	U	U	Yes	
2-Butanone	14	ug/kg	1.0			Yes	
Bromochloromet hane	6.3	ug/kg	1.0	U	U	Yes	
Chloroform	6.3	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.3	ug/kg	1.0	U	R	Yes	
Cyclohexane	6.3	ug/kg	1.0	U	R	Yes	
Carbon tetrachloride	6.3	ug/kg	1.0	U	R	Yes	
Benzene	6.3	ug/kg	1.0	U	R	Yes	
1,2-Dichloroethane	6.3	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	130	ug/kg	1.0	U	R	Yes	
Trichloroethene	6.3	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	6.3	ug/kg	1.0	U	R	Yes	
1,2-	6.3	ug/kg	1.0	U	R	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichloropropane	6.3	ug/kg	1.0	U	R	Yes	
Bromodichloromethane	6.3	ug/kg	1.0	U	R	Yes	
cis-1,3-Dichloropropene	6.3	ug/kg	1.0	U	R	Yes	
4-Methyl-2-Pentanone	13	ug/kg	1.0	U	R	Yes	
Toluene	6.3	ug/kg	1.0	J	R	Yes	
trans-1,3-Dichloropropene	6.3	ug/kg	1.0	U	R	Yes	
1,1,2-Trichloroethane	6.3	ug/kg	1.0	U	R	Yes	
Tetrachloroethene	6.3	ug/kg	1.0	U	R	Yes	
2-Hexanone	13	ug/kg	1.0	U	R	Yes	
Dibromochloromethane	6.3	ug/kg	1.0	U	R	Yes	
1,2-Dibromoethane	6.3	ug/kg	1.0	U	R	Yes	
Chlorobenzene	6.3	ug/kg	1.0	U	R	Yes	
Ethylbenzene	0.22	ug/kg	1.0	J	J	Yes	
o-Xylene	6.3	ug/kg	1.0	U	R	Yes	
m,p-Xylene	0.40	ug/kg	1.0	J	J	Yes	
Styrene	6.3	ug/kg	1.0	U	R	Yes	
Bromoform	6.3	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	6.3	ug/kg	1.0	U	R	Yes	
1,1,2,2-Tetrachloroethane	6.3	ug/kg	1.0	U	R	Yes	
1,3-Dichlorobenzene	6.3	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	0.65	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	6.3	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	6.3	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	6.3	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	6.3	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: PBLKS1	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.7	ug/kg	1.0	U	U	Yes	
beta-BHC	1.7	ug/kg	1.0	U	U	Yes	
delta-BHC	1.7	ug/kg	1.0	JP	U	Yes	
gamma-BHC (Lindane)	1.7	ug/kg	1.0	U	U	Yes	
Heptachlor	1.7	ug/kg	1.0	U	U	Yes	
Aldrin	1.7	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	1.7	ug/kg	1.0	U	U	Yes	
Endosulfan I	1.7	ug/kg	1.0	U	U	Yes	
Dieldrin	3.3	ug/kg	1.0	U	U	Yes	
4,4'-DDE	3.3	ug/kg	1.0	U	U	Yes	
Endrin	3.3	ug/kg	1.0	U	U	Yes	
Endosulfan II	3.3	ug/kg	1.0	U	U	Yes	
4,4'-DDD	3.3	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	3.3	ug/kg	1.0	U	U	Yes	
4,4'-DDT	3.3	ug/kg	1.0	U	U	Yes	
Methoxychlor	17	ug/kg	1.0	U	U	Yes	
Endrin ketone	3.3	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	3.3	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	1.7	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	1.7	ug/kg	1.0	U	U	Yes	
Toxaphene	170	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: SBLK48	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	8.0	ug/kg	1.0	J	J	Yes	
Phenol	170	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	170	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	170	ug/kg	1.0	U	U	Yes	
2-Methylphenol	170	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	170	ug/kg	1.0	U	U	Yes	
Acetophenone	170	ug/kg	1.0	U	U	Yes	
4-Methylphenol	170	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	170	ug/kg	1.0	U	U	Yes	
Hexachloroethane	170	ug/kg	1.0	U	U	Yes	
Nitrobenzene	170	ug/kg	1.0	U	U	Yes	
Isophorone	170	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	170	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	170	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	170	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	170	ug/kg	1.0	U	U	Yes	
Naphthalene	170	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	170	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	170	ug/kg	1.0	U	U	Yes	
Caprolactam	170	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	170	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	170	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	170	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	170	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	170	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	170	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	170	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	330	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	170	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	170	ug/kg	1.0	U	U	Yes	
Acenaphthylene	170	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	330	ug/kg	1.0	U	U	Yes	
Acenaphthene	170	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	330	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	330	ug/kg	1.0	U	U	Yes	
Dibenzofuran	170	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	170	ug/kg	1.0	U	U	Yes	
Diethylphthalate	170	ug/kg	1.0	U	U	Yes	
Fluorene	170	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	170	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	330	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	330	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	170	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	170	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	170	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	170	ug/kg	1.0	U	U	Yes	
Atrazine	170	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	330	ug/kg	1.0	U	U	Yes	
Phenanthrene	170	ug/kg	1.0	U	U	Yes	
Anthracene	170	ug/kg	1.0	U	U	Yes	
Carbazole	170	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	6.1	ug/kg	1.0	J	J	Yes	
Fluoranthene	170	ug/kg	1.0	U	U	Yes	
Pyrene	170	ug/kg	1.0	U	U	Yes	
Butylbenzylphthalate	170	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	170	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	170	ug/kg	1.0	U	U	Yes	
Chrysene	170	ug/kg	1.0	U	U	Yes	
Bis(2-ethylhexyl)	8.6	ug/kg	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	8.6	ug/kg	1.0	J	J	Yes	
Di-n-octylphthalate	170	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	170	ug/kg	1.0	U	U	Yes	
Benzo(k)fluoranthene	170	ug/kg	1.0	U	U	Yes	
Benzo(a)pyrene	170	ug/kg	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	170	ug/kg	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	170	ug/kg	1.0	U	U	Yes	
Benzo(g,h,i)perylene	170	ug/kg	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	170	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: VBLKS1	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	U	Yes	
Chloromethane	5.0	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/kg	1.0	U	U	Yes	
Bromomethane	5.0	ug/kg	1.0	U	U	Yes	
Chloroethane	5.0	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/kg	1.0	U	U	Yes	
Acetone	5.2	ug/kg	1.0	J	J	Yes	
Carbon disulfide	5.0	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.0	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.0	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Butanone	10	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/kg	1.0	U	U	Yes	
Chloroform	5.0	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.0	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/kg	1.0	U	U	Yes	
Benzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/kg	1.0	U	U	Yes	
Toluene	5.0	ug/kg	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Hexanone	10	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/kg	1.0	U	U	Yes	
o-Xylene	5.0	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/kg	1.0	U	U	Yes	
Styrene	5.0	ug/kg	1.0	U	U	Yes	
Bromoform	5.0	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	1.0	ug/kg	1.0	J	J	Yes	
1,2,3-Trichlorobenzene	2.1	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KQ6	Lab Code: DATAC
Sample Number: VHBLKS1	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	U	Yes	
Chloromethane	5.0	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/kg	1.0	U	U	Yes	
Bromomethane	5.0	ug/kg	1.0	U	U	Yes	
Chloroethane	5.0	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/kg	1.0	U	U	Yes	
Acetone	20	ug/kg	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.0	ug/kg	1.0	U	U	Yes	
Methylene chloride	0.61	ug/kg	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Butanone	10	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/kg	1.0	U	U	Yes	
Chloroform	5.0	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.0	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/kg	1.0	U	U	Yes	
Benzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/kg	1.0	U	U	Yes	
Toluene	0.23	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Hexanone	10	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/kg	1.0	U	U	Yes	
o-Xylene	5.0	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/kg	1.0	U	U	Yes	
Styrene	5.0	ug/kg	1.0	U	U	Yes	
Bromoform	5.0	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	

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Lab DATAC (ALS Laboratory Group) **SDG** E5KQ6 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130411 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=VHBLKS1 Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown Deuterated Trichloroethene	9.0503	5.188	ug/kg	J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KQ6 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130411 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KQ7 Location=SE-2 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	2309.917382364	ug/kg	J
107-41-5	Hexylene Glycol	3.3869	453.4845578433		JN
544-63-8	Tetradecanoic acid	10.1158	311.5338159463		JN
63521-76-6	Tridecanedial	10.7687	189.0298339763		JN
	Unknown 3-Tetradecyne	11.1099	853.7339719397		J
10030-74-7	Methyl hexadec-9-enoate	11.2981	400.4181390834		JN
112-39-0	Hexadecanoic acid, methyl ester	11.451	304.6401950499		JN
1000333-19-5	cis-9-Hexadecenoic acid	11.5863	799.8769560981		JN
57-10-3	n-Hexadecanoic acid	11.7393	1856.331589528		JN
84-65-1	9,10-Anthracenedione	12.0334	476.0840646698		JN
	Unknown 1-Butyl(dimethyl)silyloxy-3-methylbutane	13.4744	182.7725473166		J
111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,2	16.1449	830.589724441		JN
192-97-2	Benzo[e]pyrene	16.686	261.1332519806		JN
	Unknown 3-Methoxy-D-homoestra-1,3,5(10),8-tetraene-17a-o	17.333	1469.830851513		J
	Unknown 1,4-Methanonaphthalene, 1,4-dihydro-9-phenyl-	17.4624	330.5274287655		J
	Unknown erythro-9,10-Dibromopentacosane	17.633	382.494724753		J
	Unknown 28-Nor-17.alpha.(H)-hopane	17.9683	547.3293955974		J
	Unknown Cholestanol	18.0859	446.981414774		J
57-88-5	Cholesterol	18.3447	913.2215816324		JN
	Unknown 1-Hexadecanethiol	18.4388	196.1500284265		J
	Unknown .beta.-iso-Methyl ionone	18.6447	249.6551321525		J
	Unknown (1R,2S,8R,8Ar)-8-acetoxy-1-(2-hydroxyethyl)-1,2,	19.5799	239.1845415324		J
83-46-5	.beta.-Sitosterol	20.2622	894.9317930445		JN
	Unknown 2,9-Dimethyl-2,3,4,5,6,7-hexahydro-1H-2-benzazon	20.4328	251.6075212875		J
540-10-3	Hexadecanoic acid, hexadecyl ester	20.5622	321.5030523194		JN
	Unknown 6-Isopropenyl-4,8a-dimethyl-4a,5,6,7,8,8a-hexahy	21.0092	247.6834601619		J
	Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	21.1739	500.3322556547		J
	Unknown Testosterone cypionate	21.8974	327.7989046904		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KQ6 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130411 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KQ9 Location=SE-4 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	8047.740583304	ug/kg	J
	Unknown DL-3-Methyl-2-butanol, acetate	4.0045	355.087830562		J
544-63-8	Tetradecanoic acid	10.1218	327.2118931864		JN
	Unknown 8-Hexadecyne	11.11	513.5638106534		J
1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	11.2982	704.3452514349		JN
112-39-0	Hexadecanoic acid, methyl ester	11.4511	528.2702817857		JN
1000333-19-5	cis-9-Hexadecenoic acid	11.5864	714.9908535618		JN
57-10-3	n-Hexadecanoic acid	11.7511	3484.758737375		JN
84-65-1	9,10-Anthracenedione	12.0334	478.9159771992		JN
57-11-4	Octadecanoic acid	13.1628	474.3276489516		JN
	Unknown 2-Bromo-5,7-dimethyl[1,2,4]triazolo[1,5-a]pyrimi	14.5744	534.9117309549		J
111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,2	16.1449	1044.403329394		JN
	Unknown Pyrimidine-2,4,6(1H,3H,5H)-trione, 1-(2-tolyl)-5	17.3272	1455.186318659		J
53584-60-4	28-Nor-17.alpha.(H)-hopane	17.9742	423.2378333098		JN
360-68-9	Cholestan-3-ol, (3.beta.,5.beta.)-	18.0624	1328.556399273		JN
10191-41-0	dl-.alpha.-Tocopherol	18.2213	553.1686266644		JN
57-88-5	Cholesterol	18.3389	1657.622907214		JN
	Unknown Tetradecanoic acid, hexadecyl ester	18.4389	580.6645665213		J
	Unknown Sulfurous acid, butyl heptadecyl ester	18.7271	388.5219405985		J
	Unknown Dibenzo[def,mno]chrysene	19.0271	497.467796356		J
83-48-7	Stigmasterol	19.58	529.540721251		JN
83-47-6	.gamma.-Sitosterol	20.2564	3842.943264134		JN
	Unknown d-Norpregnane (5.alpha.,14.alpha.)	20.4329	961.1271567616		J
	Unknown Benz[c]acridine, 5,10-dimethyl-	20.5681	405.7692906614		J
	Unknown 4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a,5,6,6a,	20.8564	1092.521224143		J
	Unknown 2-Cyclohexene-1-carboxaldehyde, 2,6-dimethyl-6-(	21.0269	890.300156569		J
545-47-1	Lupeol	21.474	972.5497687401		JN
	Unknown 2,3-Diaminophenol	21.8916	1115.389134519		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KQ6 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130411 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR1 Location=SE-6 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	2991.191408182	ug/kg	J
107-41-5	Hexylene Glycol	3.3868	374.5065161549		JN
	Unknown 1,4-Butanediamine	4.0044	235.0102110627		J
	Unknown 9-Octadecyne	11.1098	301.0599888922		J
112-39-0	Hexadecanoic acid, methyl ester	11.451	280.653807067		JN
2416-20-8	Hexadecenoic acid, Z-11-	11.5745	396.3281556788		JN
84-65-1	9,10-Anthracenedione	12.0274	436.4475348307		JN
33543-31-6	Fluoranthene, 2-methyl-	13.6685	203.7865903654		JN
	Unknown Cyclopenta[cd]pyrene	14.5802	266.8481797195		J
473-08-5	7-Isopropenyl-1,4a-dimethyl-4,4a,5,6,7,8-hexahyd	15.5742	240.5835757519		JN
7683-64-9	Squalene	16.1448	835.3952702092		JN
	Unknown 11-Dodecen-1-ol, 2,4,6-trimethyl-, (R,R,R)-	16.6271	204.720399264		J
192-97-2	Benzo[e]pyrene	16.6801	441.5834837727		JN
	Unknown 1H-Imidazole, 2,4,5-triphenyl-	17.333	1423.164079658		J
	Unknown .gamma.-Tocopherol	17.6271	383.6922468464		J
	Unknown (1R,2S,8R,8Ar)-8-acetoxy-1-(2-hydroxyethyl)-1,2,	17.9682	297.2903498122		J
360-68-9	Cholestan-3-ol, (3.beta.,5.beta.)-	18.0682	616.4023391484		JN
10191-41-0	dl-.alpha.-Tocopherol	18.227	556.6385696413		JN
7494-34-0	26-Nor-5-cholesten-3.beta.-ol-25-one	18.3388	843.5243224102		JN
	Unknown Tetradecanoic acid, hexadecyl ester	18.4505	839.789086816		J
474-62-4	Campesterol	19.3093	205.2855993868		JN
	Unknown Anthracene, 9-cyclohexyltetradecahydro-	19.574	448.7246644548		J
83-47-6	.gamma.-Sitosterol	20.2563	3958.396261814		JN
	Unknown 4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a,5,6,6a,	20.4386	1305.233845339		J
	Unknown Hexadecanoic acid, hexadecyl ester	20.5563	253.5242011723		J
	Unknown 4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a,5,6,6a,	20.8504	1898.625167313		J
	Unknown 6-Isopropenyl-4,8a-dimethyl-4a,5,6,7,8,8a-hexahy	21.0268	801.6798541879		J
	Unknown Testosterone	21.8856	820.5378791549		J

National Functional Guidelines Report # 9

17:31 Tue, Aug 30, 2011

Lab DATAC (ALS Laboratory Group) **SDG** E5KQ6 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130411 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR3 Location=SE-8 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	883.485389929	ug/kg	J
	Unknown DL-3-Methyl-2-butanol, acetate	4.0046	266.6274501215		J
1000342-70-4	1-Octadecanesulphonyl chloride	9.6513	586.3847387348		JN
124-10-7	Methyl tetradecanoate	9.8453	400.9384281393		JN
544-63-8	Tetradecanoic acid	10.1159	261.5367112171		JN
56797-43-4	cis,cis,cis-7,10,13-Hexadecatrienal	11.2041	259.4139870657		JN
1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	11.2982	1140.83838755		JN
112-39-0	Hexadecanoic acid, methyl ester	11.457	941.0031414318		JN
1000333-19-5	cis-9-Hexadecenoic acid	11.5923	973.7225360697		JN
84-65-1	9,10-Anthracenedione	12.0334	508.3568180825		JN
150-86-7	Phytol	12.8569	217.4296375746		JN
	Unknown cis,cis,cis-7,10,13-Hexadecatrienal	13.0157	206.9394862314		J
2381-21-7	Pyrene, 1-methyl-	13.6686	192.1848912909		JN
	Unknown 11H-Benzo[b]fluorene	13.7569	221.8745364688		J
1000336-45-9	Methyl 5,8,11,14,17-eicosapentaenoate	13.9745	176.3523133921		JN
	Unknown 7H-Benz[de]anthracen-7-one	14.3921	180.2795905134		J
7683-64-9	Squalene	16.1449	368.537204683		JN
192-97-2	Benzo[e]pyrene	16.6802	282.6737250825		JN
	Unknown Pentanoic acid, 4-methyl-2-(2,5-dimethyloxazolo[	17.9566	177.2925804659		J
	Unknown Cholestan-3-ol, (3.alpha.,5.beta.)-	18.0742	261.4322370977		J
7494-34-0	26-Nor-5-cholesten-3.beta.-ol-25-one	18.3448	437.5518581332		JN
	Unknown Tetradecanoic acid, hexadecyl ester	18.4272	224.6336029833		J
83-46-5	.beta.-Sitosterol	20.2623	681.9548137837		JN
	Unknown Naphthalene, 1-(phenylmethyl)-	20.4329	243.7571156403		J
	Unknown Octadecyl trifluoroacetate	20.5623	208.5683327278		J
300574-36-1	5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan	21.0093	216.4228869704		JN
	Unknown 5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan	21.5093	187.2223706238		J

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 30 Aug 2011

FROM: Timothy Prendiville, Supervisor (**SR-6J**)
Superfund Contract Management Section

TO: Data User: OEPA

We have reviewed the data for the following case:

SITE NAME: Clyde Dump (OH)

CASE NUMBER: 41647 SDG NUMBER: E5KQ4

Number and Type of Samples: 8 Soil Samples

Sample Numbers: E5KQ4-Q9; E5KR0-R3

Laboratory: ALS Laboratory Group Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SA-5J**

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: E5KQ6

☒ ARO ☒ PEST ☒ BNA ☐ BNASIM ☐ VT ☐ VOASIM ☒ VLM

Laboratory Name: ALS Laboratory Group (SLC)

Laboratory Code: DATAC

Contract No.: EPW11037

Case No.: 41647

Analysis Price: N/A

SDG Turnaround: 21

Modified Analysis Requested: NO

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E5KQ6	7) E5KR2	13)	19)
2) E5KQ7	8) E5KR3	14)	20)
3) E5KQ8	9)	15)	21)
4) E5KQ9	10)	16)	22)
5) E5KR0	11)	17)	23)
6) E5KR1	12)	18)	24)

E5KQ6	E5KR3
First Sample in SDG	Last Sample in SDG
08/09/11	08/09/11
First Sample Receipt Date	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 Edward

Date: 8/17/2011

W 1122168

ct Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No: E5KQ6

R

Region:	5	Date Shipped:	8/8/2011	Chain of Custody Record	Sampler Signature:
Project Code: / Account Code:	TFA-102	Carrier Name:	FedEx	Relinquished By / (Date / Time)	Received By / (Date / Time)
CERCLIS ID:	OHD980905251	Airbill:	866389086520	1 8/8/11 1500	8/9/11 936
Spill ID:	ZZ	Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2	
Site Name/State:	Clyde Dump/OH			3	
Project Leader:	Victoria Sigler			4	
Action:	Screening Site Investigation				
Sampling Co:	Ohio EPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
E5KQ6	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001054 (Ice Only), 5C-001055 (Ice Only), 5C-001056 (Ice Only), 5C-001057 (Ice Only) (4)	SE-1	S: 8/8/2011 1500	ME5KQ6	--
E5KR3	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001084 (Ice Only), 5C-001085 (Ice Only), 5C-001086 (Ice Only) (3)	SE-8	S: 8/8/2011 14:40	ME5KR3	-- Sub- Final Sample
E5KT4	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001429 (Ice Only), 5C-001430 (Ice Only), 5C-001431 (Ice Only), 5C-001432 (Ice Only), 5C-001433 (Ice Only), 5C-001434 (Ice Only) (6)	SW-8	S: 8/8/2011 14:40	ME5KT4	--
E5KT5	Leachate/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001440 (Ice Only), 5C-001441 (Ice Only), 5C-001442 (Ice Only), 5C-001443 (Ice Only), 5C-001444 (Ice Only), 5C-001445 (Ice Only) (6)	L-9	S: 8/8/2011 13:40	ME5KT5	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E5KQ6	Additional Sampler Signature(s):	Chain of Custody Seal Number: 29011 - 29012
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? Y

ARO water = CLP TCL PCB water, BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water, VOA soil = CLP TCL VOA soil

TR Number: 5-131260284-080811-0004

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

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EPA USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Copy original in SMO FSKZ7

Case No: 41647
DAS No: FSKQ6

R

Region:	5	Date Shipped:	8/8/2011	Chain of Custody Record	Sampler Signature:
Project Code:	TFA-102	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	866389086520	1 8/8/11 1445	8/9/11 1936
CERCLIS ID:	OHD980905251	Shipped to:	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2	
Spill ID:	ZZ			3	
Site Name/State:	Clyde Dump/OH			4	
Project Leader:	Victoria Sigler				
Action:	Screening Site Investigation				
Sampling Co:	Ohio EPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E5KQ7	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001059 (Ice Only), 5C-001060 (Ice Only), 5C-001061 (Ice Only) (3)	SE-2	S: 8/8/2011	11:15	ME5KQ7	--
E5KQ8	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001064 (Ice Only), 5C-001065 (Ice Only), 5C-001066 (Ice Only) (3)	SE-3	S: 8/8/2011	13:00	ME5KQ8	--
E5KS8	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001264 (Ice Only), 5C-001265 (Ice Only), 5C-001266 (Ice Only), 5C-001267 (Ice Only), 5C-001268 (Ice Only), 5C-001269 (Ice Only) (6)	SW-2	S: 8/8/2011	11:00	ME5KS8	--
E5KS9	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001275 (Ice Only), 5C-001276 (Ice Only), 5C-001277 (Ice Only), 5C-001278 (Ice Only), 5C-001279 (Ice Only), 5C-001280 (Ice Only) (6)	SW-3	S: 8/8/2011	13:00	ME5KS9	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 29005 - 29006
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? Y

ARO water = CLP TCL PCB water, BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water, VOA soil = CLP TCL VOA soil

TR Number: 5-131260284-080811-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Copy original in Sec Eq 57

Case No: 41647
DAS No: E5KQ6

R

Region:	5	**Date Shipped:**	8/8/2011	**Chain of Custody Record**	**Sampler Signature:**
Project Code: / **Account Code:**	TFA-102	**Carrier Name:**	FedEx	**Relinquished By** / **(Date / Time)**	**Received By** / **(Date / Time)**
CERCLIS ID:	OHD980905251	**Airbill:**	866389086520	1 8/8/11 1459	8/9/11 1950
Spill ID:	ZZ	**Shipped to:**	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2	
Site Name/State:	Clyde Dump/OH			3	
Project Leader:	Victoria Sigler			4	
Action:	Screening Site Investigation				
Sampling Co:	Ohio EPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E5KQ9	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001068 (Ice Only), 5C-001069 (Ice Only), 5C-001070 (Ice Only) (3)	SE-4	S: 8/8/2011	10:30	ME5KQ9	--
E5KR0	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001072 (Ice Only), 5C-001073 (Ice Only), 5C-001074 (Ice Only) (3)	SE-5	S: 8/8/2011	10:40	ME5KR0	Field Duplicate
E5KT0	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001286 (Ice Only), 5C-001287 (Ice Only), 5C-001288 (Ice Only), 5C-001289 (Ice Only), 5C-001290 (Ice Only), 5C-001291 (Ice Only) (6)	SW-4	S: 8/8/2011	10:15	ME5KT0	--
E5KT1	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001297 (Ice Only), 5C-001298 (Ice Only), 5C-001299 (Ice Only), 5C-001300 (Ice Only), 5C-001301 (Ice Only), 5C-001401 (Ice Only) (6)	SW-5	S: 8/8/2011	10:25	ME5KT1	Field Duplicate

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 29007-29008
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** Y

ARO water = CLP TCL PCB water, BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water, VOA soil = CLP TCL VOA soil

TR Number: 5-131260284-080811-0002

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

Copy original in SDD ESKST

Case No: 41647
DAS No: E5KD6

R

Region:	5	**Date Shipped:**	8/8/2011	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	TFA-102	**Carrier Name:**	FedEx		
Account Code:		**Airbill:**	866389086520	**Relinquished By** / **(Date / Time)**	**Received By** / **(Date / Time)**
CERCLIS ID:	OHD980905251	**Shipped to:**	ALS Laboratory Group 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	1 / 8/8/11 1500	8/9/11 9:56
Spill ID:	ZZ			2	
Site Name/State:	Clyde Dump/OH			3	
Project Leader:	Victoria Sigler			4	
Action:	Screening Site Investigation				
Sampling Co:	Ohio EPA				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
E5KR1	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001076 (Ice Only), 5C-001077 (Ice Only), 5C-001078 (Ice Only) (3)	SE-6	S: 8/8/2011	12:56	ME5KR1	--
E5KR2	Soil/Sediment/ Victoria Sigler	L/G	BNA/PEST (21), VOA soil (21)	5C-001080 (Ice Only), 5C-001081 (Ice Only), 5C-001082 (Ice Only) (3)	SE-7	S: 8/8/2011	14:05	ME5KR2	--
E5KT2	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001407 (Ice Only), 5C-001408 (Ice Only), 5C-001409 (Ice Only), 5C-001410 (Ice Only), 5C-001411 (Ice Only), 5C-001412 (Ice Only) (6)	SW-6	S: 8/8/2011	12:56	ME5KT2	--
E5KT3	Surface Water/ Victoria Sigler	L/G	ARO water (21), PEST water (21), SVOA water (21)	5C-001418 (Ice Only), 5C-001419 (Ice Only), 5C-001420 (Ice Only), 5C-001421 (Ice Only), 5C-001422 (Ice Only), 5C-001423 (Ice Only) (6)	SW-7	S: 8/8/2011	14:05	ME5KT3	--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:** 29007 - 29010
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** Y

ARO water = CLP TCL PCB water, BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PEST water = CLP TCL Pesticide water, SVOA water = CLP TCL Semivolatiles water, VOA soil = CLP TCL VOA soil

TR Number: 5-131260284-080811-0003

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PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

SDG Narrative
Low/Medium Volatiles

Contract: EPW11037 **Case:** 41647
Laboratory: ALS Environmental **SDG:** E5KQ6

EPA No.	ALS Sample	pH	Dilution	EPA No.	ALS Sample	pH	Dilution
E5KQ6	1122168001	NA	None	E5KR0	1122168007	NA	None
E5KQ6MS	1122168002	NA	None	E5KR0RE	1122168007RE	NA	None
E5KQ6MSD	1122168003	NA	None	E5KR1	1122168008	NA	None
E5KQ7	1122168004	NA	None	E5KR2	1122168009	NA	None
E5KQ8	1122168005	NA	None	E5KR3	1122168010	NA	None
E5KQ8RE	1122168005RE	NA	None	E5KR3RE	1122168010RE	NA	None
E5KQ9	1122168006	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: OI Analytical Eclipse 4660 Concentrator (#10 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 wide mouth jars, were weighed out, 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 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 1122168001 (E5KQ6).

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.

The hold blank contains a peak which has been tentatively identified as deuterated trichloroethene. The peak is present in many sample runs but is less than ten percent of the nearest internal standard and thus is not reported. It is believed that an unknown compound or solvent present in the sample vials is causing 1,1,2,2-tetrachloroethane-d2 to break down and form trichloroethene-d either by acting as a catalyst or through chemical reaction.

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.

8.24.11

Christopher Q. Coleman
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract: EP-W-11-037
Case: 41647
SDG: E5KQ6
Laboratory Name: DataChem Laboratories
DCL Set ID.: 1122168.
Sample No.: E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR2, E5KR3.
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 5975-D)
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 E5KQ6. Following analysis, it was discovered that there were no recoveries for the MS compounds in either the MS or MSD samples, indicating that they were not spiked. This discovery was made after sample hold times had expired. As a result of this fact and that recovery criteria is advisory only, it was decided to report the samples as is.

Dilutions: Sample E5KR2 required a 1:3 dilution.

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	
E5KQ6	Benzo(b)fluoranthene	16.24	2194	2207
E5KQ6	Benzo(k)fluoranthene	16.28	2207	2222
E5KQ6MS	Benzo(b)fluoranthene	16.24	2195	2207
E5KQ6MS	Benzo(k)fluoranthene	16.28	2207	2221
E5KQ6MSD	Benzo(k)fluoranthene	16.28	2208	2220
E5KQ7	Benzo(b)fluoranthene	16.26	2198	2210
E5KQ7	Benzo(k)fluoranthene	16.30	2210	2224
E5KQ8	Benzo(b)fluoranthene	16.26	2197	2209
E5KQ8	Benzo(k)fluoranthene	16.29	2209	2223
E5KQ8	Dibenzo(a,h)anthracene	19.11	2680	2702
E5KQ9	Benzo(b)fluoranthene	16.26	2198	2209
E5KQ9	Benzo(k)fluoranthene	16.29	2209	2221
E5KR0	Benzo(b)fluoranthene	16.25	2197	2209
E5KR0	Benzo(k)fluoranthene	16.29	2209	2222
E5KR1	Benzo(b)fluoranthene	16.26	2196	2210
E5KR1	Benzo(k)fluoranthene	16.29	2210	2221
E5KR2	Benzo(b)fluoranthene	16.25	2196	2208
E5KR2	Benzo(k)fluoranthene	16.29	2208	2221
E5KR3	Benzo(b)fluoranthene	16.26	2195	2209
E5KR3	Benzo(k)fluoranthene	16.29	2209	2222
SSTD020DN	Indeno(1,2,3-c,d)pyrene	19.86	2700	2726
SSTD010DN	2,4-Dinitrophenol	8.42	834	866
SSTD010DN	4-Nitrophenol	8.55	853	899
SSTD040DN	Caprolactam	6.26	459	493
SSTD040DN	4-Nitroaniline	9.30	968	1030
SSTD040DN	Indeno(1,2,3-c,d)pyrene	19.87	2762	2794
SSTD080DN	Caprolactam	6.28	466	497

SSTD080DN	4-Nitroaniline	9.30	969	1026
SSTD080DN	Indeno(1,2,3-c,d)pyrene	19.87	2767	2797

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. This was the case for the following TICs: retention time 16.69 minutes in sample E5KQ7 and 19.03 in sample E5KR0. 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.

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08-23-11

Seaman W. Barker August 23, 2011

SDG Narrative
Pesticides

Laboratory Name: DataChem Laboratories
Case: 41647
SDG: E5KQ6
EPA Sample Numbers: E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR2, and E5KR3.
Contract Number: EP-W-11-037

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):

$$\text{Result ug/kg} = \frac{\text{(Area response of analyte)(Extract FV uL after GPC)(Dilution Factor)(GPC factor)}}{\text{(Ave CF)(uL injected)(grams of Sample)((100-\%moisture)/100))}}$$

$$3.24 \text{ ug/kg} = \frac{(13464)(5000 \text{ uL})(1)(10000/5000)}{(693000)(2 \text{ uL})(30 \text{ g})(1)}$$

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08/26/11

Steven J. Sagers
Pesticide Chemist

Date

SDG Narrative
Aroclors

Laboratory Name: ALS/DataChem
Case: 41647
SDG: E5KQ6
EPA Sample Numbers: E5KQ6, E5KQ6MS, E5KQ6MSD, E5KQ7, E5KQ8, E5KQ9, E5KR0, E5KR1, E5KR2, and E5KR3.
Contract Number: EP-W-11-037

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 SOW specified hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: CCV passed continuing calibration criteria.

Sample Analysis: All samples were analyzed within SOW specified hold times from date of extraction.

Dilutions: None.

Blank Analysis: No analytes were detected in the method blank above the CRQL.

LCS Analysis: LCS passed established criteria.

MS/MSD Analysis: MS/MSD recoveries within established limits. RPD 1 result outside of established limits.

Surrogates: All samples passed surrogate criteria.

Miscellaneous Comments: None.

This chart summarizes the amount (ng) of each compound in each type of standard:

	AR12213##	AR12323##	AR12423##	AR12483##	AR12623##	AR12683##	AIBLK##
AR1221	0.8						
AR1232		0.8					
AR1242			0.8				
AR1248				0.8			
AR1254							
AR1262					0.8		
AR1268						0.8	
AR1016							
AR1260							
Tetrachloro-m-xylene	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Decachlorobiphenyl	0.08	0.08	0.08	0.08	0.08	0.08	0.08

	AR16601##	AR16602##	AR16603##	AR16604##	AR16605##	AR12541##	AR12542##	AR12543##	AR12544##	AR12545##
AR1221										
AR1232										
AR1242										
AR1248										
AR1254						0.2	0.4	0.8	1.6	3.2
AR1262										
AR1268										
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	0.01	0.02	0.04	0.08	0.16	0.01	0.02	0.04	0.08	0.16
Decachlorobiphenyl	0.02	0.04	0.08	0.16	0.32	0.02	0.04	0.08	0.16	0.32

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:

$$\frac{\text{µL most concentrated extract used to make dilution + µL clean solvent}}{\text{µL most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

Equation for Aroclors in water samples (EQ. 7):

EQ. 7 Concentration Calculation for Water Samples

$$\text{Concentration µg/L} = \frac{(A_x)\ (V_t)\ (DF)\ (GPC)}{(\overline{CF})\ (V_o)\ (V_i)}$$

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.

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8/29/2011

Christopher R. Winter Date
Analyst

Meredith D. Edwards

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Tuesday, August 09, 2011 2:39 PM
To: Meredith D. Edwards; Roxanne Olson
Cc: Victoria Sigler; Carlene Thomas; Howard Pham; roberman.alida@epa.gov; Prendiville.Timothy@epamail.epa.gov; Warren Layne
Subject: Region 05 | Case 41647 | Lab DATAC | Issue Broken samples | FINAL
Attachments: Organic Case 41647.pdf

Roxy,

Summary Start
Issue: The laboratory received sample E5KR1 with a cracked lid. There was neither loss of volume nor was there a possibility of contamination as the samples were in individual bags.
Resolution: 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.
Summary End

Let em know if you have any additional questions.
Thanks,

Please note: To waive any defect(s) associated with this issue, please contact your PO.

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: Roxanne Olson [mailto:Roxanne.Olson@ALSGlobal.com]
Sent: Tuesday, August 09, 2011 3:57 PM
To: Mroz, Ryan
Subject: FW: Region 5 case 41647

Ryan:

Please see Mere's comment concerning today's sample receipt from Case 41647.

Roxy

From: Meredith D. Edwards
Sent: Tuesday, August 09, 2011 1:48 PM
To: Roxanne Olson
Subject: Region 5 case 41647

Please advise Region 5, that I received sample E5KR1 for SVOA/PEST/PCB with a cracked lid. There was no loss of volume. All soil samples were received in a individual bag, so there was no chance for contamination.

Thanks
Mere

****
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****

ALS Group: Click here to report this email as spam.

Roxanne Olson

From:	Mroz, Ryan [rmroz@fedcsc.com]
Sent:	Friday, August 12, 2011 1:03 PM
To:	Meredith D. Edwards; Roxanne Olson
Cc:	Victoria Sigler; Carlene Thomas; Howard Pham; roberman.alida@epa.gov; Prendiville.Timothy@epamail.epa.gov; Warren Layne
Subject:	Region 05 | Case 41647 | Lab DATAC | Issue Non-standard matrix | FINAL

Roxy,

Summary Start
Issue: The percent solids value for sample E5KQ8 is less than 50% at 45.4%.
Resolution: Per Region 5, the laboratory note the issue (that the % solids was at 45.4%) in the SDG Narrative and proceed with analysis.
Summary End

Let me know if you have any additional questions.
Thanks,

Please note: To waive any defect(s) associated with this issue, please contact your PO.

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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-----Original Message-----
From: Prendiville.Timothy@epamail.epa.gov [mailto:Prendiville.Timothy@epamail.epa.gov]
Sent: Friday, August 12, 2011 2:58 PM
To: Mroz, Ryan
Cc: Roberman.Alida@epamail.epa.gov; Layne.Warren@epamail.epa.gov
Subject: Re: Region 05 | Case 41647 | Lab DATAC | Issue Non-standard matrix

Ryan,

We agree with the proposed resolution.

Tim Prendiville, Chief
Remedial Response Section 2

Superfund Division
U.S. EPA (SR-6J)
77 W. Jackson Blvd.
Chicago, IL 60604
(312) 886-5122
toll free (800) 621-8431 ext 65122

From: Mroz, Ryan
Sent: Friday, August 12, 2011 2:34 PM
To: 'Carlene Thomas'; 'Howard Pham'; 'roberman.alida@epa.gov'; 'Tim Prendiville (Prendiville.Timothy@epamail.epa.gov)'; 'Warren Layne'
Subject: Region 05 | Case 41647 | Lab DATAC | Issue Non-standard matrix

Warren,

DATAC is reporting the following Issue with Case 41647. Please advise if the PROPOSED Resolution is acceptable to Region 5.

Issue: The percent solid value for sample E5KQ8 is less than 50% at 45.4%.
PROPOSED Resolution: Per Region 5, the laboratory note the issue (that the % solids was at 45.4%) in the SDG Narrative and proceed with analysis.

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: Sigler, Victoria [mailto:victoria.sigler@epa.state.oh.us]
Sent: Friday, August 12, 2011 2:17 PM
To: Mroz, Ryan
Subject: RE: Region 05 | Case 41647 | Lab DATAC | Issue Non-standard matrix

Please have the lab report the percent solid in the narrative and analyze the sample.

Thanks,
Tori

From: Mroz, Ryan [mailto:rmroz@fedcsc.com]
Sent: Friday, August 12, 2011 1:51 PM
To: Sigler, Victoria
Cc: Carlene Thomas; Howard Pham; roberman.alida@epa.gov; Prendiville.Timothy@epamail.epa.gov; Warren Layne
Subject: Region 05 | Case 41647 | Lab DATAC | Issue Non-standard matrix

Hi Tori,

DATAC is reporting the following Issue with Case 41647. Please advise the laboratory how to proceed.

Issues: The percent solid value for sample E5KQ8 is less than 50% at 45.4%.

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: Roxanne Olson [mailto:Roxanne.Olson@ALSGlobal.com]
Sent: Friday, August 12, 2011 1:36 PM
To: Mroz, Ryan
Subject: % Solids

Ryan:

FYI.

Roxy

WO# 1122168
SDG: E5KQ6
Case: 41647

E5KQ8 % solid 45.3803 % moist. 54.6197

****
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00007

2C - FORM II VOA-3

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E5KQ6	107	109	79	129	101	94	113
02	E5KQ7	111	112	81	118	102	95	120
03	E5KQ8	115	117	85	98	102	93	131 *
04	E5KQ8RE	112	117	84	82	101	92	135 *
05	E5KQ9	104	105	80	120	98	92	109
06	E5KR0	120	120	85	109	102	94	126 *
07	E5KR0RE	107	114	82	101	102	94	127 *
08	E5KR1	107	110	80	132	101	98	121
09	E5KR2	99	101	77	120	99	95	103
10	E5KR3	136 *	135 *	87	125	109	106	140 *
11	E5KR3RE	130 *	137 *	85	118	110	108	148 *
12	E5KQ6MS	102	104	100	114	100	93	108
13	E5KQ6MSD	114	115	108	123	104	99	124 *
14	VBLKS1	103	102	79	92	97	92	97
15	VHBLKS1	97	101	74	76	99	96	100
16								
17								
18								
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27								
28								
29								
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	E5KQ6	108	106	104	141	72	90	99	0
02	E5KQ7	114	110	108	134	112	92	103	0
03	E5KQ8	121	116	106	118	74	93	99	1
04	E5KQ8RE	125 *	119	105	98	55	92	99	2
05	E5KQ9	102	105	103	134	131	91	97	0
06	E5KR0	117	113	105	125	87	89	99	1
07	E5KR0RE	121	115	106	122	73	94	101	1
08	E5KR1	117	111	103	151	112	91	100	0
09	E5KR2	99	101	103	126	135	89	98	0
10	E5KR3	135 *	114	117	145	115	99	102	4
11	E5KR3RE	146 *	118	117	141	95	108	105	4
12	E5KQ6MS	104	104	102	123	86	84	101	0
13	E5KQ6MSD	120	111	110	139	97	94	103	1
14	VBLKS1	91	97	101	91	91	85	98	0
15	VHBLKS1	97	98	101	79	86	79	101	0
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		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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix Spike - EPA Sample No.: E5KQ6 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	70.	0.0	66.	95	59-172
Trichloroethene	70.	0.0	55.	79	62-137
Benzene	70.	0.0	65.	93	66-142
Toluene	70.	0.40	56.	80	59-139
Chlorobenzene	70.	0.0	50.	72	60-133

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	66.	76.	115	19	0-22	59-172
Trichloroethene	66.	74.	113	35 *	0-24	62-137
Benzene	66.	84.	127	31 *	0-21	66-142
Toluene	66.	76.	114	35 *	0-21	59-139
Chlorobenzene	66.	69.	105	37 *	0-21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 4 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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

Lab File ID: SW54BLK Lab Sample ID: 232396

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 08/12/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 09:23

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E5KQ6	1122168001	SW55C001	09:54
02	E5KQ8	1122168005	SW57C005	10:56
03	E5KQ9	1122168006	SW58C006	11:27
04	E5KR0	1122168007	SW59C007	11:59
05	E5KR2	1122168009	SW61C009	13:01
06	E5KR3	1122168010	SW62C010	13:33
07	E5KQ6MS	1122168002	SW63S002	14:04
08	E5KQ6MSD	1122168003	SW64D003	14:36
09	E5KQ7	1122168004	SW65R004	15:08
10	E5KQ8RE	1122168005RE	SW66R005	15:39
11	E5KR0RE	1122168007RE	SW67R007	16:11
12	E5KR1	1122168008	SW68R008	16:43
13	E5KR3RE	1122168010RE	SW69R010	17:15
14	VHBLKS1	232397	SW70HBLK	17:46
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COMMENTS:

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: DB624 ID: 0.53 (mm) Init. Calib. Date(s): 07/22/2011 07/22/2011

EPA Sample No.(VSTD#####): VSTD050S1 Date Analyzed: 08/12/2011

Lab File ID (Standard): SW53S50 Time Analyzed: 08:52

Instrument ID: 5972-S Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	2161793	12.71	2648944	8.68	1258973	16.08
	UPPER LIMIT	4323586	13.21	5297888	9.18	2517946	16.58
	LOWER LIMIT	1080897	12.21	1324472	8.18	629487	15.58
	EPA SAMPLE NO.						
01	VBLKS1	2356156	12.70	2843626	8.67	1356975	16.08
02	E5KQ6	1915874	12.71	2647149	8.67	888760	16.09
03	E5KQ8	1477382	12.73	2330972	8.68	494780*	16.11
04	E5KQ9	1994204	12.76	2668703	8.71	915993	16.15
05	E5KR0	1421543	12.74	2128883	8.70	529234*	16.11
06	E5KR2	2222585	12.74	2838139	8.70	1113903	16.13
07	E5KR3	1135927	12.74	1820949	8.71	443418*	16.13
08	E5KQ6MS	2036126	12.74	2715093	8.70	947171	16.13
09	E5KQ6MSD	1606666	12.75	2389290	8.71	623585*	16.13
10	E5KQ7	1686612	12.73	2458040	8.69	643220	16.11
11	E5KQ8RE	1508625	12.73	2448617	8.69	481453*	16.11
12	E5KR0RE	1655269	12.73	2551513	8.69	585278*	16.12
13	E5KR1	1711223	12.73	2508086	8.69	651597	16.12
14	E5KR3RE	1077497*	12.74	1826268	8.70	380370*	16.12
15	VHBLKS1	2338467	12.74	2866261	8.71	1255095	16.13
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 contract required QC limits with an asterisk.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168001

Sample wt/vol: 5.35 (g/mL) g Lab File ID: SW55C001

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 23. Date Analyzed: 08/12/2011

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	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
67-64-1	Acetone	24 ~~12~~ ~~7.1~~	~~J~~B U
75-15-0	Carbon disulfide	6.1	U
79-20-9	Methyl acetate	6.1	U
75-09-2	Methylene chloride	12 ~~1.3~~	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
110-82-7	Cyclohexane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
71-43-2	Benzene	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

BT 9-14-11

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168001

Sample wt/vol: 5.35 (g/mL) g Lab File ID: SW55C001

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 23. Date Analyzed: 08/12/2011

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	6.1	U
108-87-2	Methylcyclohexane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	6.1 ~~0.40~~	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U
95-47-6	o-Xylene	6.1	U
179601-23-1	m,p-Xylene	0.19	J
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U

SB

9-14

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KQ6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168001

Sample wt/vol: 5.35 (g/mL) g Lab File ID: SW55C001

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 23. Date Analyzed: 08/12/2011

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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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.

E5KQ6MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168002

Sample wt/vol: 4.66 (g/mL) g Lab File ID: SW63S002

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 23. Date Analyzed: 08/12/2011

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	7.0	U
74-87-3	Chloromethane	7.0	U
75-01-4	Vinyl chloride	7.0	U
74-83-9	Bromomethane	7.0	U
75-00-3	Chloroethane	7.0	U
75-69-4	Trichlorofluoromethane	7.0	U
75-35-4	1,1-Dichloroethene	66.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	U
67-64-1	Acetone	28 ~~6.3~~	~~JB~~ M
75-15-0	Carbon disulfide	7.0	U
79-20-9	Methyl acetate	7.0	U
75-09-2	Methylene chloride	14 ~~0.97~~	~~J~~ M
156-60-5	trans-1,2-Dichloroethene	7.0	U
1634-04-4	Methyl tert-butyl ether	7.0	U
75-34-3	1,1-Dichloroethane	7.0	U
156-59-2	cis-1,2-Dichloroethene	7.0	U
78-93-3	2-Butanone	14.	U
74-97-5	Bromochloromethane	7.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	7.0	U
110-82-7	Cyclohexane	7.0	U
56-23-5	Carbon tetrachloride	7.0	U
71-43-2	Benzene	65.	
107-06-2	1,2-Dichloroethane	7.0	U
123-91-1	1,4-Dioxane	140	U

ST 9/14

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168002

Sample wt/vol: 4.66 (g/mL) g Lab File ID: SW63S002

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 23. Date Analyzed: 08/12/2011

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	55.	
108-87-2	Methylcyclohexane	7.0	U
78-87-5	1,2-Dichloropropane	7.0	U
75-27-4	Bromodichloromethane	7.0	U
10061-01-5	cis-1,3-Dichloropropene	7.0	U
108-10-1	4-Methyl-2-Pentanone	14.	U
108-88-3	Toluene	56.	
10061-02-6	trans-1,3-Dichloropropene	7.0	U
79-00-5	1,1,2-Trichloroethane	7.0	U
127-18-4	Tetrachloroethene	7.0	U
591-78-6	2-Hexanone	14.	U
124-48-1	Dibromochloromethane	7.0	U
106-93-4	1,2-Dibromoethane	7.0	U
108-90-7	Chlorobenzene	50.	
100-41-4	Ethylbenzene	7.0	U
95-47-6	o-Xylene	7.0	U
179601-23-1	m,p-Xylene	0.25	J
100-42-5	Styrene	7.0	U
75-25-2	Bromoform	7.0	U
98-82-8	Isopropylbenzene	7.0	U
79-34-5	1,1,2,2-Tetrachloroethane	7.0	U
541-73-1	1,3-Dichlorobenzene	7.0	U
106-46-7	1,4-Dichlorobenzene	7.0	U
95-50-1	1,2-Dichlorobenzene	7.0	U
96-12-8	1,2-Dibromo-3-chloropropane	7.0	U
120-82-1	1,2,4-Trichlorobenzene	7.0	U
87-61-6	1,2,3-Trichlorobenzene	7.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168003

Sample wt/vol: 4.91 (g/mL) g Lab File ID: SW64D003

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 23. Date Analyzed: 08/12/2011

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	6.6	U
74-87-3	Chloromethane	6.6	U
75-01-4	Vinyl chloride	6.6	U
74-83-9	Bromomethane	6.6	U
75-00-3	Chloroethane	6.6	U
75-69-4	Trichlorofluoromethane	6.6	U
75-35-4	1,1-Dichloroethene	76.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U
67-64-1	Acetone	26 ~~6.6~~	~~UB~~ U
75-15-0	Carbon disulfide	6.6	U
79-20-9	Methyl acetate	6.6	U
75-09-2	Methylene chloride	13 ~~0.69~~	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	6.6	U
1634-04-4	Methyl tert-butyl ether	6.6	U
75-34-3	1,1-Dichloroethane	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.6	U
67-66-3	Chloroform	6.6	U
71-55-6	1,1,1-Trichloroethane	6.6	U
110-82-7	Cyclohexane	6.6	U
56-23-5	Carbon tetrachloride	6.6	U
71-43-2	Benzene	84.	
107-06-2	1,2-Dichloroethane	6.6	U
123-91-1	1,4-Dioxane	130	U

SB

ST 9/14/

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168003

Sample wt/vol: 4.91 (g/mL) g Lab File ID: SW64D003

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 23. Date Analyzed: 08/12/2011

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	74.	
108-87-2	Methylcyclohexane	6.6	U
78-87-5	1,2-Dichloropropane	6.6	U
75-27-4	Bromodichloromethane	6.6	U
10061-01-5	cis-1,3-Dichloropropene	6.6	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	76.	
10061-02-6	trans-1,3-Dichloropropene	6.6	U
79-00-5	1,1,2-Trichloroethane	6.6	U
127-18-4	Tetrachloroethene	6.6	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.6	U
106-93-4	1,2-Dibromoethane	6.6	U
108-90-7	Chlorobenzene	69.	
100-41-4	Ethylbenzene	6.6	U
95-47-6	o-Xylene	6.6	U
179601-23-1	m,p-Xylene	0.45	J
100-42-5	Styrene	6.6	U
75-25-2	Bromoform	6.6	U
98-82-8	Isopropylbenzene	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
95-50-1	1,2-Dichlorobenzene	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168004

Sample wt/vol: 5.42 (g/mL) g Lab File ID: SW65R004

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 31. Date Analyzed: 08/12/2011

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	6.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U
67-64-1	Acetone	26 ~~12.~~	~~JB~~ U
75-15-0	Carbon disulfide	6.7	U
79-20-9	Methyl acetate	6.7	U
5B 75-09-2	Methylene chloride	13 ~~0.97~~	~~J~~ 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	11.	J
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	6.7	U
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

9-14-

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168004

Sample wt/vol: 5.42 (g/mL) g Lab File ID: SW65R004

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 31. Date Analyzed: 08/12/2011

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	6.7	U
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	6.7 ~~1.6~~	~~J~~ 4
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	6.7	U
100-41-4	Ethylbenzene	0.36	J
95-47-6	o-Xylene	0.21	J
179601-23-1	m,p-Xylene	0.79	J
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	0.41	J
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

SB

SR 9-14-11

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KQ7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168004

Sample wt/vol: 5.42 (g/mL) g Lab File ID: SW65R004

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 31. Date Analyzed: 08/12/2011

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.

E5KQ8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005

Sample wt/vol: 4.44 (g/mL) g Lab File ID: SW57C005

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 55. Date Analyzed: 08/12/2011

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	12.	U
74-87-3	Chloromethane	12.	U
75-01-4	Vinyl chloride	12.	U
74-83-9	Bromomethane	12.	U
75-00-3	Chloroethane	12.	U
75-69-4	Trichlorofluoromethane	12.	U
75-35-4	1,1-Dichloroethene	12.	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12.	U
67-64-1	Acetone	100 ~~65.~~	B K
75-15-0	Carbon disulfide	2.7	J
79-20-9	Methyl acetate	12.	U
75-09-2	Methylene chloride	25 ~~2.5~~	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	12.	U
1634-04-4	Methyl tert-butyl ether	12.	U
75-34-3	1,1-Dichloroethane	12.	U
156-59-2	cis-1,2-Dichloroethene	12.	U
78-93-3	2-Butanone	29.	
74-97-5	Bromochloromethane	12.	U
67-66-3	Chloroform	12.	U
71-55-6	1,1,1-Trichloroethane	12.	U
110-82-7	Cyclohexane	12.	U
56-23-5	Carbon tetrachloride	12.	U
71-43-2	Benzene	12.	U
107-06-2	1,2-Dichloroethane	12.	U
123-91-1	1,4-Dioxane	250	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

9-14-11

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005

Sample wt/vol: 4.44 (g/mL) g Lab File ID: SW57C005

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 55. Date Analyzed: 08/12/2011

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	12.	U
108-87-2	Methylcyclohexane	12.	U
78-87-5	1,2-Dichloropropane	12.	U
75-27-4	Bromodichloromethane	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U
108-10-1	4-Methyl-2-Pentanone	25.	U
108-88-3	Toluene	210	
10061-02-6	trans-1,3-Dichloropropene	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U
127-18-4	Tetrachloroethene	12.	U
591-78-6	2-Hexanone	25.	U
124-48-1	Dibromochloromethane	12.	U
106-93-4	1,2-Dibromoethane	12.	U
108-90-7	Chlorobenzene	12.	U
100-41-4	Ethylbenzene	0.88	J
95-47-6	o-Xylene	0.60	J
179601-23-1	m,p-Xylene	2.0	J
100-42-5	Styrene	12.	U
75-25-2	Bromoform	12.	U
98-82-8	Isopropylbenzene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U
541-73-1	1,3-Dichlorobenzene	12.	U
106-46-7	1,4-Dichlorobenzene	1.2	J
95-50-1	1,2-Dichlorobenzene	12.	U
96-12-8	1,2-Dibromo-3-chloropropane	12.	U
120-82-1	1,2,4-Trichlorobenzene	12.	U
87-61-6	1,2,3-Trichlorobenzene	12.	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KQ8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005

Sample wt/vol: 4.44 (g/mL) g Lab File ID: SW57C005

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 55. Date Analyzed: 08/12/2011

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.

E5KQ8RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005RE

Sample wt/vol: 5.54 (g/mL) g Lab File ID: SW66R005

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 55. Date Analyzed: 08/12/2011

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	9.9	U
74-87-3	Chloromethane	9.9	U
75-01-4	Vinyl chloride	9.9	U
74-83-9	Bromomethane	9.9	U
75-00-3	Chloroethane	9.9	U
75-69-4	Trichlorofluoromethane	9.9	U
75-35-4	1,1-Dichloroethene	9.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9.9	U
67-64-1	Acetone	80 ~~54.~~	BU
75-15-0	Carbon disulfide	3.2	J
79-20-9	Methyl acetate	9.9	U
75-09-2	Methylene chloride	20 ~~2.0~~	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	9.9	U
1634-04-4	Methyl tert-butyl ether	9.9	U
75-34-3	1,1-Dichloroethane	9.9	U
156-59-2	cis-1,2-Dichloroethene	9.9	U
78-93-3	2-Butanone	24.	
74-97-5	Bromochloromethane	9.9	U
67-66-3	Chloroform	9.9	U
71-55-6	1,1,1-Trichloroethane	9.9	U
110-82-7	Cyclohexane	9.9	U
56-23-5	Carbon tetrachloride	9.9	U
71-43-2	Benzene	9.9	U
107-06-2	1,2-Dichloroethane	9.9	U
123-91-1	1,4-Dioxane	200	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

SB

9-14-

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ8RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005RE

Sample wt/vol: 5.54 (g/mL) g Lab File ID: SW66R005

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 55. Date Analyzed: 08/12/2011

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	9.9	U
108-87-2	Methylcyclohexane	9.9	U
78-87-5	1,2-Dichloropropane	9.9	U
75-27-4	Bromodichloromethane	9.9	U
10061-01-5	cis-1,3-Dichloropropene	9.9	U
108-10-1	4-Methyl-2-Pentanone	20.	U
108-88-3	Toluene	200	
10061-02-6	trans-1,3-Dichloropropene	9.9	U
79-00-5	1,1,2-Trichloroethane	9.9	U
127-18-4	Tetrachloroethene	9.9	U
591-78-6	2-Hexanone	20.	U
124-48-1	Dibromochloromethane	9.9	U
106-93-4	1,2-Dibromoethane	9.9	U
108-90-7	Chlorobenzene	9.9	U
100-41-4	Ethylbenzene	0.87	J
95-47-6	o-Xylene	0.57	J
179601-23-1	m,p-Xylene	1.9	J
100-42-5	Styrene	9.9	U
75-25-2	Bromoform	9.9	U
98-82-8	Isopropylbenzene	9.9	U
79-34-5	1,1,2,2-Tetrachloroethane	9.9	U
541-73-1	1,3-Dichlorobenzene	9.9	U
106-46-7	1,4-Dichlorobenzene	0.95	J
95-50-1	1,2-Dichlorobenzene	9.9	U
96-12-8	1,2-Dibromo-3-chloropropane	9.9	U
120-82-1	1,2,4-Trichlorobenzene	9.9	U
87-61-6	1,2,3-Trichlorobenzene	9.9	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KQ8RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005RE

Sample wt/vol: 5.54 (g/mL) g Lab File ID: SW66R005

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 55. Date Analyzed: 08/12/2011

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.

E5KQ9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168006

Sample wt/vol: 5.04 (g/mL) g Lab File ID: SW58C006

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 41. Date Analyzed: 08/12/2011

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	8.4	U
74-87-3	Chloromethane	8.4	U
75-01-4	Vinyl chloride	8.4	U
74-83-9	Bromomethane	8.4	U
75-00-3	Chloroethane	8.4	U
75-69-4	Trichlorofluoromethane	8.4	U
75-35-4	1,1-Dichloroethene	8.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.4	U
67-64-1	Acetone	34 ~~27.~~	B4
75-15-0	Carbon disulfide	1.4	J
79-20-9	Methyl acetate	8.4	U
58 75-09-2	Methylene chloride	17 ~~0.91~~	~~J~~ 4
156-60-5	trans-1,2-Dichloroethene	8.4	U
1634-04-4	Methyl tert-butyl ether	8.4	U
75-34-3	1,1-Dichloroethane	8.4	U
156-59-2	cis-1,2-Dichloroethene	8.4	U
78-93-3	2-Butanone	14.	J
74-97-5	Bromochloromethane	8.4	U
67-66-3	Chloroform	8.4	U
71-55-6	1,1,1-Trichloroethane	8.4	U
110-82-7	Cyclohexane	8.4	U
56-23-5	Carbon tetrachloride	8.4	U
71-43-2	Benzene	8.4	U
107-06-2	1,2-Dichloroethane	8.4	U
123-91-1	1,4-Dioxane	170	U

BT 9-14-11

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168006

Sample wt/vol: 5.04 (g/mL) g Lab File ID: SW58C006

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 41. Date Analyzed: 08/12/2011

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	8.4	U
108-87-2	Methylcyclohexane	8.4	U
78-87-5	1,2-Dichloropropane	8.4	U
75-27-4	Bromodichloromethane	8.4	U
10061-01-5	cis-1,3-Dichloropropene	8.4	U
108-10-1	4-Methyl-2-Pentanone	17.	U
108-88-3	Toluene	8.4 ~~6.2~~	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	8.4	U
79-00-5	1,1,2-Trichloroethane	8.4	U
127-18-4	Tetrachloroethene	8.4	U
591-78-6	2-Hexanone	17.	U
124-48-1	Dibromochloromethane	8.4	U
106-93-4	1,2-Dibromoethane	8.4	U
108-90-7	Chlorobenzene	8.4	U
100-41-4	Ethylbenzene	0.41	J
95-47-6	o-Xylene	0.30	J
179601-23-1	m,p-Xylene	0.86	J
100-42-5	Styrene	8.4	U
75-25-2	Bromoform	8.4	U
98-82-8	Isopropylbenzene	8.4	U
79-34-5	1,1,2,2-Tetrachloroethane	8.4	U
541-73-1	1,3-Dichlorobenzene	8.4	U
106-46-7	1,4-Dichlorobenzene	0.39	J
95-50-1	1,2-Dichlorobenzene	8.4	U
96-12-8	1,2-Dibromo-3-chloropropane	8.4	U
120-82-1	1,2,4-Trichlorobenzene	8.4	U
87-61-6	1,2,3-Trichlorobenzene	8.4	U

SB

BT 9-14.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KQ9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168006

Sample wt/vol: 5.04 (g/mL) g Lab File ID: SW58C006

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 41. Date Analyzed: 08/12/2011

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.

E5KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007

Sample wt/vol: 5.25 (g/mL) g Lab File ID: SW59C007

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 27. Date Analyzed: 08/12/2011

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	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
67-64-1	Acetone	26.	BU
75-15-0	Carbon disulfide	1.5	J
79-20-9	Methyl acetate	6.5	U
58 75-09-2	Methylene chloride	13 ~~0.80~~	~~J~~ U 8 9-14-
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
78-93-3	2-Butanone	12.	J
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	6.5	U
71-55-6	1,1,1-Trichloroethane	6.5	U
110-82-7	Cyclohexane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
71-43-2	Benzene	6.5	U
107-06-2	1,2-Dichloroethane	6.5	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.

E5KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007

Sample wt/vol: 5.25 (g/mL) g Lab File ID: SW59C007

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 27. Date Analyzed: 08/12/2011

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	6.5	U
108-87-2	Methylcyclohexane	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	13 ~~7.5~~	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
127-18-4	Tetrachloroethene	6.5	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	0.39	J
95-47-6	o-Xylene	0.35	J
179601-23-1	m,p-Xylene	0.89	J
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	0.49	J
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U

SB

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1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007

Sample wt/vol: 5.25 (g/mL) g Lab File ID: SW59C007

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 27. Date Analyzed: 08/12/2011

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.

E5KR0RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007RE

Sample wt/vol: 5.55 (g/mL) g Lab File ID: SW67R007

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 27. Date Analyzed: 08/12/2011

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	6.2	U
74-87-3	Chloromethane	6.2	U
75-01-4	Vinyl chloride	6.2	U
74-83-9	Bromomethane	6.2	U
75-00-3	Chloroethane	6.2	U
75-69-4	Trichlorofluoromethane	6.2	U
75-35-4	1,1-Dichloroethene	6.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U
67-64-1	Acetone	24 ~~21.~~	BU
75-15-0	Carbon disulfide	1.7	J
79-20-9	Methyl acetate	6.2	U
75-09-2	Methylene chloride	12 ~~0.61~~	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	6.2	U
1634-04-4	Methyl tert-butyl ether	6.2	U
75-34-3	1,1-Dichloroethane	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
78-93-3	2-Butanone	12.	J
74-97-5	Bromochloromethane	6.2	U
67-66-3	Chloroform	6.2	U
71-55-6	1,1,1-Trichloroethane	6.2	U
110-82-7	Cyclohexane	6.2	U
56-23-5	Carbon tetrachloride	6.2	U
71-43-2	Benzene	6.2	U
107-06-2	1,2-Dichloroethane	6.2	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

ST 9-14-11

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR0RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007RE

Sample wt/vol: 5.55 (g/mL) g Lab File ID: SW67R007

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 27. Date Analyzed: 08/12/2011

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	6.2	U
108-87-2	Methylcyclohexane	6.2	U
78-87-5	1,2-Dichloropropane	6.2	U
75-27-4	Bromodichloromethane	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
108-10-1	4-Methyl-2-Pentanone	12.	U
SB 108-88-3	Toluene	6.2 ~~3.2~~	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
127-18-4	Tetrachloroethene	6.2	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	6.2	U
106-93-4	1,2-Dibromoethane	6.2	U
108-90-7	Chlorobenzene	6.2	U
100-41-4	Ethylbenzene	0.30	J
95-47-6	o-Xylene	0.24	J
179601-23-1	m,p-Xylene	0.66	J
100-42-5	Styrene	6.2	U
75-25-2	Bromoform	6.2	U
98-82-8	Isopropylbenzene	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	0.34	J
95-50-1	1,2-Dichlorobenzene	6.2	U
96-12-8	1,2-Dibromo-3-chloropropane	6.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U

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1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR0RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007RE

Sample wt/vol: 5.55 (g/mL) g Lab File ID: SW67R007

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 27. Date Analyzed: 08/12/2011

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.

E5KR1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168008

Sample wt/vol: 4.39 (g/mL) g Lab File ID: SW68R008

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 32. Date Analyzed: 08/12/2011

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	8.4	U
74-87-3	Chloromethane	8.4	U
75-01-4	Vinyl chloride	8.4	U
74-83-9	Bromomethane	8.4	U
75-00-3	Chloroethane	8.4	U
75-69-4	Trichlorofluoromethane	8.4	U
75-35-4	1,1-Dichloroethene	8.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.4	U
67-64-1	Acetone	34 ~~29~~.	BU
75-15-0	Carbon disulfide	1.8	J
79-20-9	Methyl acetate	8.4	U
75-09-2	Methylene chloride	17 ~~0.70~~	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	8.4	U
1634-04-4	Methyl tert-butyl ether	8.4	U
75-34-3	1,1-Dichloroethane	8.4	U
156-59-2	cis-1,2-Dichloroethene	8.4	U
78-93-3	2-Butanone	22.	
74-97-5	Bromochloromethane	8.4	U
67-66-3	Chloroform	8.4	U
71-55-6	1,1,1-Trichloroethane	8.4	U
110-82-7	Cyclohexane	8.4	U
56-23-5	Carbon tetrachloride	8.4	U
71-43-2	Benzene	8.4	U
107-06-2	1,2-Dichloroethane	8.4	U
123-91-1	1,4-Dioxane	170	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

53

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9-14

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168008

Sample wt/vol: 4.39 (g/mL) g Lab File ID: SW68R008

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 32. Date Analyzed: 08/12/2011

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	8.4	U
108-87-2	Methylcyclohexane	8.4	U
78-87-5	1,2-Dichloropropane	8.4	U
75-27-4	Bromodichloromethane	8.4	U
10061-01-5	cis-1,3-Dichloropropene	8.4	U
108-10-1	4-Methyl-2-Pentanone	17.	U
108-88-3	Toluene	8.4 ~~0.87~~	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	8.4	U
79-00-5	1,1,2-Trichloroethane	8.4	U
127-18-4	Tetrachloroethene	8.4	U
591-78-6	2-Hexanone	17.	U
124-48-1	Dibromochloromethane	8.4	U
106-93-4	1,2-Dibromoethane	8.4	U
108-90-7	Chlorobenzene	8.4	U
100-41-4	Ethylbenzene	8.4	U
95-47-6	o-Xylene	8.4	U
179601-23-1	m,p-Xylene	0.31	J
100-42-5	Styrene	8.4	U
75-25-2	Bromoform	8.4	U
98-82-8	Isopropylbenzene	8.4	U
79-34-5	1,1,2,2-Tetrachloroethane	8.4	U
541-73-1	1,3-Dichlorobenzene	8.4	U
106-46-7	1,4-Dichlorobenzene	0.84	J
95-50-1	1,2-Dichlorobenzene	8.4	U
96-12-8	1,2-Dibromo-3-chloropropane	8.4	U
120-82-1	1,2,4-Trichlorobenzene	8.4	U
87-61-6	1,2,3-Trichlorobenzene	8.4	U

SB

ST 9-14-11

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168008

Sample wt/vol: 4.39 (g/mL) g Lab File ID: SW68R008

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 32. Date Analyzed: 08/12/2011

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.

E5KR2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168009

Sample wt/vol: 5.37 (g/mL) g Lab File ID: SW61C009

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 21. Date Analyzed: 08/12/2011

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	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
67-64-1	Acetone	24 ~~9.5~~	~~JB~~ 4
75-15-0	Carbon disulfide	5.9	U
79-20-9	Methyl acetate	5.9	U
75-09-2	Methylene chloride	12 ~~0.53~~	~~J~~ 4
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
78-93-3	2-Butanone	8.1	J
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
110-82-7	Cyclohexane	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
71-43-2	Benzene	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

9-14-11

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168009

Sample wt/vol: 5.37 (g/mL) g Lab File ID: SW61C009

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 21. Date Analyzed: 08/12/2011

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	5.9	U
108-87-2	Methylcyclohexane	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	5.9 ~~0.49~~	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
100-41-4	Ethylbenzene	5.9	U
95-47-6	o-Xylene	5.9	U
179601-23-1	m,p-Xylene	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168009

Sample wt/vol: 5.37 (g/mL) g Lab File ID: SW61C009

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 21. Date Analyzed: 08/12/2011

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.

E5KR3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010

Sample wt/vol: 5.82 (g/mL) g Lab File ID: SW62C010

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 30. Date Analyzed: 08/12/2011

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	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
67-64-1	Acetone	24 ~~14~~.	BU
75-15-0	Carbon disulfide	0.88	J
79-20-9	Methyl acetate	6.1	U
75-09-2	Methylene chloride	12 ~~2.6~~	~~B~~ U
156-60-5	trans-1,2-Dichloroethene	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
78-93-3	2-Butanone	13.	
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
110-82-7	Cyclohexane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
71-43-2	Benzene	6.1	U
107-06-2	1,2-Dichloroethane	6.1	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.

E5KR3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010

Sample wt/vol: 5.82 (g/mL) g Lab File ID: SW62C010

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 30. Date Analyzed: 08/12/2011

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	6.1	U
108-87-2	Methylcyclohexane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	6.1 ~~0.58~~	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	0.19	J
95-47-6	o-Xylene	6.1	U
179601-23-1	m,p-Xylene	0.29	J
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	0.52	J
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U

9-14-11

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010

Sample wt/vol: 5.82 (g/mL) g Lab File ID: SW62C010

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 30. Date Analyzed: 08/12/2011

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.

E5KR3RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010RE

Sample wt/vol: 5.65 (g/mL) g Lab File ID: SW69R010

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 30. Date Analyzed: 08/12/2011

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	26 ~~17~~.	BU
75-15-0	Carbon disulfide	6.3	U
79-20-9	Methyl acetate	6.3	U
75-09-2	Methylene chloride	13 ~~3.3~~	~~J~~ 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	14.	
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

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BT 9-14-11

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR3RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010RE

Sample wt/vol: 5.65 (g/mL) g Lab File ID: SW69R010

Level: (TRACE/LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 30. Date Analyzed: 08/12/2011

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	6.3 ~~1~~	~~J~~ U
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	0.22	J
95-47-6	o-Xylene	6.3	U
179601-23-1	m,p-Xylene	0.40	J
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	0.65	J
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.

E5KR3RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010RE

Sample wt/vol: 5.65 (g/mL) g Lab File ID: SW69R010

Level: (TRACE or LOW/MED) LOW Date Received: 08/09/2011

% Moisture: not dec. 30. Date Analyzed: 08/12/2011

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232396

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW54BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/12/2011

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	5.2	J
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.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232396

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW54BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/12/2011

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	1.0	J
87-61-6	1,2,3-Trichlorobenzene	2.1	J

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232396

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW54BLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/12/2011

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.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232397

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW70HBLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/12/2011

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	20 ~~20~~ ~~3.6~~	~~JB~~ U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.61	J
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

9-14-11

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232397

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW70HBLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/12/2011

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	0.23	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.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232397

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW70HBLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/12/2011

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		Unknown Deuterated Trichloroethene	9.05	5.2	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
17					
18					
19					
20					
21					
22					
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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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	E5KQ6	63	58	66	63	69	72	65	4
02	E5KQ7	50	43	52	64	50	53	55	3
03	E5KQ8	43	35	44	58	40	36	50	3
04	E5KQ9	52	44	55	67	53	48	59	2
05	E5KR0	52	45	56	69	51	42	60	0 *
06	E5KR1	43	39	46	57	45	40	51	4
07	E5KR2	46	43	51	60	50	48	56	13
08	E5KR3	45	40	48	58	48	49	52	4
09	E5KQ6MS	55	51	59	62	58	62	58	7
10	E5KQ6MSD	54	50	57	63	57	60	58	5
11	SBLK48	57	51	58	51	57	61	58	19
12									
13									
14									
15									
16									
17									
18									
19									
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23									
24									
25									
26									
27									
28									
29									
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

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	E5KQ6	70	65	72	71	54	70	61	67	0
02	E5KQ7	57	54	67	57	30	59	46 *	59	1
03	E5KQ8	54	48	59	52	23	53	44 *	53	1
04	E5KQ9	62	58	66	62	8	64	52	63	0
05	E5KR0	66	59	71	64	4	66	56	65	1
06	E5KR1	55	50	57	55	9	56	47 *	57	1
07	E5KR2	60	54	59	58	10	62	51	59	0
08	E5KR3	58	53	55	55	12	57	46 *	56	1
09	E5KQ6MS	64	58	65	63	38	63	56	61	0
10	E5KQ6MSD	61	56	63	61	35	61	53	58	0
11	SBLK48	66	61	68	66	66	60	58	59	0
12										
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix Spike - EPA Sample No.: E5KQ6 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
Phenol	1700	7.9	0.0	0 *	26-90
2-Chlorophenol	1700	0.0	0.0	0 *	25-102
N-Nitroso-di-n-propylamine	1700	0.0	0.0	0 *	41-126
4-Chloro-3-methylphenol	1700	0.0	0.0	0 *	26-103
Acenaphthene	1700	24.	88.	4 *	31-137
4-Nitrophenol	1700	0.0	0.0	0 *	11-114
2,4-Dinitrotoluene	1700	0.0	0.0	0 *	28-89
Pentachlorophenol	1700	0.0	0.0	0 *	17-109
Pyrene	1700	620	1000	23 *	35-142

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
Phenol	1700	0.0	0 *	0	0-35	26-90
2-Chlorophenol	1700	0.0	0 *	0	0-50	25-102
N-Nitroso-di-n-propylamine	1700	0.0	0 *	0	0-38	41-126
4-Chloro-3-methylphenol	1700	0.0	0 *	0	0-33	26-103
Acenaphthene	1700	42.	1 *	110 *	0-19	31-137
4-Nitrophenol	1700	0.0	0 *	0	0-50	11-114
2,4-Dinitrotoluene	1700	0.0	0 *	0	0-47	28-89
Pentachlorophenol	1700	0.0	0 *	0	0-47	17-109
Pyrene	1700	1000	23 *	3	0-36	35-142

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 9 outside limits

Spike Recovery: 18 out of 18 outside limits

COMMENTS: _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK48

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

Lab File ID: DLJ24BLK Lab Sample ID: 232048

Instrument ID: 5975-D Date Extracted: 08/10/2011

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 08/18/2011

Level: (LOW/MED) LOW Time Analyzed: 20:27

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E5KQ6	1122168001	DLJ37C01	08/19/2011
02	E5KQ6MS	1122168002	DLJ38M02	08/19/2011
03	E5KQ6MSD	1122168003	DLJ39M03	08/19/2011
04	E5KQ7	1122168004	DLJ40C04	08/19/2011
05	E5KQ8	1122168005	DLJ41C05	08/19/2011
06	E5KQ9	1122168006	DLJ42C06	08/19/2011
07	E5KR0	1122168007	DLJ43C07	08/19/2011
08	E5KR1	1122168008	DLJ44C08	08/19/2011
09	E5KR2	1122168009	DLJ45C09	08/19/2011
10	E5KR3	1122168010	DLJ46C10	08/19/2011
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COMMENTS:

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 07/12/2011 07/12/2011

EPA Sample No.(SSTD020##): SSTD020J1 Date Analyzed: 08/18/2011

Lab File ID (Standard): DLJ15S20 Time Analyzed: 16:16

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	145403	4.10	522628	5.41	337206	7.94
	UPPER LIMIT	290806	4.60	1045256	5.91	674412	8.44
	LOWER LIMIT	72702	3.60	261314	4.91	168603	7.44
	EPA SAMPLE NO.						
01	SBLK48	141069	4.10	516370	5.41	322374	7.94
02							
03							
04							
05							
06							
07							
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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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

EPA Sample No.(SSTD020##): SSTD020J1 Date Analyzed: 08/18/2011

Lab File ID (Standard): DLJ15S20 Time Analyzed: 16:16

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	655007		10.52		798673		14.85		549603		16.85	
	UPPER LIMIT	1310014		11.02		1597346		15.35		1099206		17.35	
	LOWER LIMIT	327504		10.02		399337		14.35		274802		16.35	
	EPA SAMPLE NO.												
01	SBLK48	594404		10.52		709204		14.85		550728		16.84	
02													
03													
04													
05													
06													
07													
08													
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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 contract required QC limits with an asterisk.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 07/12/2011 07/12/2011

EPA Sample No.(SSTD020##): SSTD020J2 Date Analyzed: 08/19/2011

Lab File ID (Standard): DLJ36S20 Time Analyzed: 02:05

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	142482	4.10	510395	5.41	334034	7.94
	UPPER LIMIT	284964	4.60	1020790	5.91	668068	8.44
	LOWER LIMIT	71241	3.60	255198	4.91	167017	7.44
	EPA SAMPLE NO.						
01	E5KQ6	151932	4.10	516504	5.41	308660	7.94
02	E5KQ6MS	136635	4.10	500731	5.41	297929	7.94
03	E5KQ6MSD	140452	4.10	513157	5.41	317579	7.94
04	E5KQ7	135101	4.10	502354	5.41	305120	7.94
05	E5KQ8	130891	4.10	498410	5.41	303619	7.94
06	E5KQ9	128586	4.10	483715	5.41	288092	7.94
07	E5KR0	121106	4.10	455339	5.41	269345	7.94
08	E5KR1	118735	4.10	445700	5.41	264446	7.94
09	E5KR2	114442	4.10	426812	5.41	254074	7.94
10	E5KR3	116994	4.10	432727	5.41	245935	7.94
11							
12							
13							
14							
15							
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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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

EPA Sample No.(SSTD020##): SSTD020J2 Date Analyzed: 08/19/2011

Lab File ID (Standard): DLJ36S20 Time Analyzed: 02:05

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	655112	10.52	811690	14.85	542139	16.85
	UPPER LIMIT	1310224	11.02	1623380	15.35	1084278	17.35
	LOWER LIMIT	327556	10.02	405845	14.35	271070	16.35
	EPA SAMPLE NO.						
01	E5KQ6	539365	10.52	678151	14.85	501422	16.86
02	E5KQ6MS	517010	10.52	628317	14.85	463784	16.86
03	E5KQ6MSD	546700	10.52	676675	14.86	505593	16.86
04	E5KQ7	524117	10.52	705365	14.86	377058	16.87
05	E5KQ8	516602	10.52	628541	14.86	361346	16.87
06	E5KQ9	494772	10.52	613859	14.86	332847	16.86
07	E5KR0	467276	10.52	566994	14.86	294233	16.86
08	E5KR1	453611	10.52	560906	14.86	293634	16.87
09	E5KR2	432246	10.52	503744	14.86	294083	16.86
10	E5KR3	419420	10.52	523449	14.86	274034	16.86
11							
12							
13							
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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 contract required QC limits with an asterisk.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ37C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	220 ~~17.~~	~~JB~~ U
108-95-2	Phenol	7.9	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	220	U
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	9.7	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	10.	J
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	430	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	13.	J
99-09-2	3-Nitroaniline	430	U
83-32-9	Acenaphthene	24.	J

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ37C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	430	U
100-02-7	4-Nitrophenol	430	U
132-64-9	Dibenzofuran	19.	J
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	7.2	J
86-73-7	Fluorene	31.	J
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	430	U
534-52-1	4,6-Dinitro-2-methylphenol	430	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	43.	J
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	460	
120-12-7	Anthracene	55.	J
86-74-8	Carbazole	110	J
84-74-2	Di-n-butylphthalate	220 ~~11.~~	~~JB~~ U
206-44-0	Fluoranthene	1000	
129-00-0	Pyrene	620	
85-68-7	Butylbenzylphthalate	220	U
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	310	
218-01-9	Chrysene	390	
117-81-7	Bis(2-ethylhexyl)phthalate	1100 ~~440~~ ~~34.~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	510	
207-08-9	Benzo(k)fluoranthene	180	J
50-32-8	Benzo(a)pyrene	320	
193-39-5	Indeno(1,2,3-cd)pyrene	240	
53-70-3	Dibenzo(a,h)anthracene	51.	J
191-24-2	Benzo(g,h,i)perylene	160	J
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1] Cannot be separated from Diphenylamine

SR 9_14_11

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KQ6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ37C01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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		Unknown 2-Furanmethanamine, tetrahydro-	3.34	530	J
02	107-41-5	Hexylene Glycol	3.39	590	JN
03		Unknown Glycine, N-(2-cyanoethyl)-	3.45	400	~~JB~~ U
04		Unknown Acetamide, N-ethyl-	4.00	250	J
05		Unknown 1-Pyrroline, 3-ethyl-	4.70	86.	J
06		Unknown 2-Isopropenyl-3-methylpyrazine	9.35	120	J
07	112-39-0	Hexadecanoic acid, methyl ester	11.45	120	JN
08		Unknown Benzaldehyde, 3,5-dichloro-2-hydroxy-	11.63	100	J
09	84-65-1	9,10-Anthracenedione	12.03	390	JN
10	192-97-2	Benzo[e]pyrene	16.67	97.	JN
11		Unknown Phthalic anhydride	17.32	810	~~JB~~ U
12		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	21.15	580	J
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3400	J

[2] EPA-designated Registry Number.

SY 9-14-1

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ38M02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	220 ~~21.~~	~~JB~~ U
108-95-2	Phenol	220	U
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	12.	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	20.	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	17.	J
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	9.7	J
91-58-7	2-Chloronaphthalene	220	U
88-74-4	2-Nitroaniline	430	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	13.	J
99-09-2	3-Nitroaniline	430	U
83-32-9	Acenaphthene	88.	J

9-14-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ38M02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	430	U
100-02-7	4-Nitrophenol	430	U
132-64-9	Dibenzofuran	71.	J
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	220	U
86-73-7	Fluorene	120	J
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	430	U
534-52-1	4,6-Dinitro-2-methylphenol	430	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	43.	J
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	200	J
86-74-8	Carbazole	200	J
84-74-2	Di-n-butylphthalate	220 ~~11.~~	~~JB~~ M
206-44-0	Fluoranthene	1700	
129-00-0	Pyrene	1000	
85-68-7	Butylbenzylphthalate	220	U
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	520	
218-01-9	Chrysene	490	
117-81-7	Bis(2-ethylhexyl)phthalate	1100 ~~440~~ ~~25.~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	610	
207-08-9	Benzo(k)fluoranthene	240	
50-32-8	Benzo(a)pyrene	410	
193-39-5	Indeno(1,2,3-cd)pyrene	260	
53-70-3	Dibenzo(a,h)anthracene	61.	J
191-24-2	Benzo(g,h,i)perylene	150	J
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1] Cannot be separated from Diphenylamine

SR 9-14

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ39M03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	~~22017.~~	JB U
108-95-2	Phenol	220	U
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	11.	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	11.	J
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	430	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	10.	J
99-09-2	3-Nitroaniline	430	U
83-32-9	Acenaphthene	42.	J

SK 9-14-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ39M03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	430	U
100-02-7	4-Nitrophenol	430	U
132-64-9	Dibenzofuran	31.	J
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	220	U
86-73-7	Fluorene	66.	J
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	430	U
534-52-1	4,6-Dinitro-2-methylphenol	430	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	53.	J
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	850	
120-12-7	Anthracene	280	
86-74-8	Carbazole	59.	J
84-74-2	Di-n-butylphthalate	220 ~~10.~~	~~JB~~ U
206-44-0	Fluoranthene	1700	
129-00-0	Pyrene	1000	
85-68-7	Butylbenzylphthalate	14.	J
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	570	
218-01-9	Chrysene	510	
117-81-7	Bis(2-ethylhexyl)phthalate	1100 ~~440~~ ~~28.~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	680	
207-08-9	Benzo(k)fluoranthene	210	J
50-32-8	Benzo(a)pyrene	470	
193-39-5	Indeno(1,2,3-cd)pyrene	310	
53-70-3	Dibenzo(a,h)anthracene	68.	J
191-24-2	Benzo(g,h,i)perylene	200	J
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1] Cannot be separated from Diphenylamine

9-14.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ40C04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	250 ~~19.~~	~~JB~~ U
108-95-2	Phenol	9.2	J
111-44-4	Bis(2-chloroethyl)ether	250	U
95-57-8	2-Chlorophenol	250	U
95-48-7	2-Methylphenol	250	U
108-60-1	2,2'-Oxybis(1-chloropropane)	250	U
98-86-2	Acetophenone	12.	J
106-44-5	4-Methylphenol	71.	J
621-64-7	N-Nitroso-di-n-propylamine	250	U
67-72-1	Hexachloroethane	250	U
98-95-3	Nitrobenzene	250	U
78-59-1	Isophorone	250	U
88-75-5	2-Nitrophenol	250	U
105-67-9	2,4-Dimethylphenol	250	U
111-91-1	Bis(2-chloroethoxy)methane	250	U
120-83-2	2,4-Dichlorophenol	250	U
91-20-3	Naphthalene	12.	J
106-47-8	4-Chloroaniline	250	U
87-68-3	Hexachlorobutadiene	250	U
105-60-2	Caprolactam	250	U
59-50-7	4-Chloro-3-methylphenol	250	U
91-57-6	2-Methylnaphthalene	7.6	J
77-47-4	Hexachlorocyclopentadiene	250	U
88-06-2	2,4,6-Trichlorophenol	250	U
95-95-4	2,4,5-Trichlorophenol	250	U
92-52-4	1,1'-Biphenyl	250	U
91-58-7	2-Chloronaphthalene	250	U
88-74-4	2-Nitroaniline	480	U
131-11-3	Dimethylphthalate	250	U
606-20-2	2,6-Dinitrotoluene	250	U
208-96-8	Acenaphthylene	15.	J
99-09-2	3-Nitroaniline	480	U
83-32-9	Acenaphthene	41.	J

SR 9-14-11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ40C04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	480	U
100-02-7	4-Nitrophenol	480	U
132-64-9	Dibenzofuran	30.	J
121-14-2	2,4-Dinitrotoluene	250	U
84-66-2	Diethylphthalate	250	U
86-73-7	Fluorene	52.	J
7005-72-3	4-Chlorophenyl-phenylether	250	U
100-01-6	4-Nitroaniline	480	U
534-52-1	4,6-Dinitro-2-methylphenol	480	U
86-30-6	N-Nitrosodiphenylamine[1]	250	U
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U
101-55-3	4-Bromophenyl-phenylether	250	U
118-74-1	Hexachlorobenzene	250	U
1912-24-9	Atrazine	250	U
87-86-5	Pentachlorophenol	480	U
85-01-8	Phenanthrene	920	
120-12-7	Anthracene	120	J
86-74-8	Carbazole	180	J
84-74-2	Di-n-butylphthalate	250 ~~16.~~	~~JB~~ U
206-44-0	Fluoranthene	2100	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	250	U
91-94-1	3,3'-Dichlorobenzidine	250	U
56-55-3	Benzo(a)anthracene	670	
218-01-9	Chrysene	860	
117-81-7	Bis(2-ethylhexyl)phthalate	1200 ~~500~~ ~~220~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	250	U
205-99-2	Benzo(b)fluoranthene	1500	
207-08-9	Benzo(k)fluoranthene	450	
50-32-8	Benzo(a)pyrene	780	
193-39-5	Indeno(1,2,3-cd)pyrene	440	
53-70-3	Dibenzo(a,h)anthracene	90.	J
191-24-2	Benzo(g,h,i)perylene	330	
58-90-2	2,3,4,6-Tetrachlorophenol	250	U

[1] Cannot be separated from Diphenylamine

ST 9-14-

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KQ7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ40C04

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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		Unknown Propane, 1-(1-methylethoxy)-	3.34	420	~~JB~~ U
02	107-41-5	Hexylene Glycol	3.39	450	JN
03		Unknown Glycine, N-(2-cyanoethyl)-	3.45	290	~~JB~~ U
04		Unknown 2-Propanone, O-methyloxime	4.00	200	~~JB~~ U
05	544-63-8	Tetradecanoic acid	10.12	310	JN
06	63521-76-6	Tridecanedial	10.77	190	JN
07		Unknown 3-Tetradecyne	11.11	850	J
08	10030-74-7	Methyl hexadec-9-enoate	11.30	400	JN
09	112-39-0	Hexadecanoic acid, methyl ester	11.45	300	JN
10	1000333-19-5	cis-9-Hexadecenoic acid	11.59	800	JN
11	57-10-3	n-Hexadecanoic acid	11.74	1900	JN
12	84-65-1	9,10-Anthracenedione	12.03	480	JN
13		Unknown 1-Butyl(dimethyl)silyloxy-3-methylbutane	13.47	180	J
14	111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,2	16.14	830	JN
15	192-97-2	Benzo[e]pyrene	16.69	260	JN
16		Unknown 3-Methoxy-D-homoestra-1,3,5(10),8-tetrae	17.33	1500	J
17		Unknown 1,4-Methanonaphthalene, 1,4-dihydro-9-ph	17.46	330	J
18		Unknown erythro-9,10-Dibromopentacosane	17.63	380	J
19		Unknown 28-Nor-17.alpha.(H)-hopane	17.97	550	J
20		Unknown Cholestanol	18.09	450	J
21	57-88-5	Cholesterol	18.34	910	JN
22		Unknown 1-Hexadecanethiol	18.44	200	J
23		Unknown .beta.-iso-Methyl ionone	18.64	250	J
24		Unknown (1R,2S,8R,8Ar)-8-acetoxy-1-(2-hydroxyeth	19.58	240	J
25	83-46-5	.beta.-Sitosterol	20.26	890	JN
26		Unknown 2,9-Dimethyl-2,3,4,5,6,7-hexahydro-1H-2-	20.43	250	J
27	540-10-3	Hexadecanoic acid, hexadecyl ester	20.56	320	JN
28		Unknown 6-Isopropenyl-4,8a-dimethyl-4a,5,6,7,8,8	21.01	250	J
29		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	21.17	500	J
30		Unknown Testosterone cypionate	21.90	330	J
	E966796[2]	Total Alkanes	N/A	2300	J

[2] EPA-designated Registry Number.

9-14-11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ41C05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 55. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	~~24.~~ 370	~~JB~~ U
108-95-2	Phenol	12.	J
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-Oxybis(1-chloropropane)	370	U
98-86-2	Acetophenone	12.	J
106-44-5	4-Methylphenol	160	J
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
91-20-3	Naphthalene	12.	J
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
105-60-2	Caprolactam	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
92-52-4	1,1'-Biphenyl	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	16.	J
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	30.	J

SR 9-14-

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ41C05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 55. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	20.	J
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	35.	J
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine[1]	370	U
95-94-3	1,2,4,5-Tetrachlorobenzene	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
1912-24-9	Atrazine	370	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	640	
120-12-7	Anthracene	100	J
86-74-8	Carbazole	150	J
84-74-2	Di-n-butylphthalate	370 ~~26.~~	~~JB~~ U
206-44-0	Fluoranthene	1700	
129-00-0	Pyrene	1100	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	600	
218-01-9	Chrysene	870	
117-81-7	Bis(2-ethylhexyl)phthalate	1800 ~~730~~ ~~320~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	1500	
207-08-9	Benzo(k)fluoranthene	460	
50-32-8	Benzo(a)pyrene	750	
193-39-5	Indeno(1,2,3-cd)pyrene	450	
53-70-3	Dibenzo(a,h)anthracene	96.	J
191-24-2	Benzo(g,h,i)perylene	350	J
58-90-2	2,3,4,6-Tetrachlorophenol	370	U

[1] Cannot be separated from Diphenylamine

9-14-11

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KQ8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ41C05

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 55. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 1-(1-methylethoxy)-	3.34	410	~~JB~~ U
02	107-41-5	Hexylene Glycol	3.41	4600	JN
03		Unknown Glycine, N-(2-cyanoethyl)-	3.46	300	~~JB~~ U
04	124-10-7	Methyl tetradecanoate	9.85	330	JN
05	544-63-8	Tetradecanoic acid	10.12	600	JN
06		Unknown 3,7,11,15-Tetramethyl-2-hexadecen-1-ol	11.11	840	J
07	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	11.30	890	JN
08	112-39-0	Hexadecanoic acid, methyl ester	11.45	650	JN
09	1000333-19-5	cis-9-Hexadecenoic acid	11.59	2400	JN
10	57-10-3	n-Hexadecanoic acid	11.75	4300	JN
11	84-65-1	9,10-Anthracenedione	12.03	400	JN
12		Unknown Phytol	12.86	380	J
13		Unknown cis-Vaccenic acid	13.02	300	J
14	57-11-4	Octadecanoic acid	13.16	290	JN
15		Unknown Arachidonic acid	13.98	1100	J
16		Unknown N-1-Adamantyl-p-dimethylaminobenzalimine	15.50	310	J
17	111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,2	16.14	910	JN
18	192-97-2	Benzo[e]pyrene	16.68	460	JN
19	3234-85-3	Tetradecanoic acid, tetradecyl ester	16.96	560	JN
20		Unknown Phthalic anhydride	17.33	1400	~~JB~~ U
21		Unknown 6-Fluoro-2-trifluoromethylbenzoic acid,2	17.97	660	J
22	516-95-0	Epicholestanol	18.07	1100	JN
23	7494-34-0	26-Nor-5-cholesten-3.beta.-ol-25-one	18.34	1800	JN
24		Unknown Tetradecanethiol	18.44	830	J
25		Unknown 28-Nor-17.beta.(H)-hopane	18.64	270	J
26		Unknown Tetracosapentaene, 2,6,10,15,19,23-hexam	19.57	310	J
27	83-46-5	.beta.-Sitosterol	20.27	1200	JN
28		Unknown (1S,5R,10S)-1,5,8,8-Tetramethylbicyclo[8	20.42	500	J
29	540-10-3	Hexadecanoic acid, hexadecyl ester	20.56	840	JN
30		Unknown Phthalic anhydride	21.16	530	~~J~~ U
	E966796[2]	Total Alkanes	N/A	3500	J

[2] EPA-designated Registry Number.

9.14-1

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ42C06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 41. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	~~290~~ 26.	~~JB~~ U
108-95-2	Phenol	11.	J
111-44-4	Bis(2-chloroethyl)ether	290	U
95-57-8	2-Chlorophenol	290	U
95-48-7	2-Methylphenol	290	U
108-60-1	2,2'-Oxybis(1-chloropropane)	290	U
98-86-2	Acetophenone	290	U
106-44-5	4-Methylphenol	46.	J
621-64-7	N-Nitroso-di-n-propylamine	290	U
67-72-1	Hexachloroethane	290	U
98-95-3	Nitrobenzene	290	U
78-59-1	Isophorone	290	U
88-75-5	2-Nitrophenol	290	U
105-67-9	2,4-Dimethylphenol	290	U
111-91-1	Bis(2-chloroethoxy)methane	290	U
120-83-2	2,4-Dichlorophenol	290	U
91-20-3	Naphthalene	13.	J
106-47-8	4-Chloroaniline	290	U
87-68-3	Hexachlorobutadiene	290	U
105-60-2	Caprolactam	290	U
59-50-7	4-Chloro-3-methylphenol	290	U
91-57-6	2-Methylnaphthalene	290	U
77-47-4	Hexachlorocyclopentadiene	290	U
88-06-2	2,4,6-Trichlorophenol	290	U
95-95-4	2,4,5-Trichlorophenol	290	U
92-52-4	1,1'-Biphenyl	290	U
91-58-7	2-Chloronaphthalene	290	U
88-74-4	2-Nitroaniline	560	U
131-11-3	Dimethylphthalate	290	U
606-20-2	2,6-Dinitrotoluene	290	U
208-96-8	Acenaphthylene	14.	J
99-09-2	3-Nitroaniline	560	U
83-32-9	Acenaphthene	42.	J

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ42C06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 41. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	560	U
100-02-7	4-Nitrophenol	560	U
132-64-9	Dibenzofuran	28.	J
121-14-2	2,4-Dinitrotoluene	290	U
84-66-2	Diethylphthalate	290	U
86-73-7	Fluorene	51.	J
7005-72-3	4-Chlorophenyl-phenylether	290	U
100-01-6	4-Nitroaniline	560	U
534-52-1	4,6-Dinitro-2-methylphenol	560	U
86-30-6	N-Nitrosodiphenylamine[1]	290	U
95-94-3	1,2,4,5-Tetrachlorobenzene	290	U
101-55-3	4-Bromophenyl-phenylether	290	U
118-74-1	Hexachlorobenzene	290	U
1912-24-9	Atrazine	290	U
87-86-5	Pentachlorophenol	560	U
85-01-8	Phenanthrene	770	
120-12-7	Anthracene	120	J
86-74-8	Carbazole	170	J
84-74-2	Di-n-butylphthalate	290 ~~17.~~	~~JB~~ U
206-44-0	Fluoranthene	1900	
129-00-0	Pyrene	1100	
85-68-7	Butylbenzylphthalate	290	U
91-94-1	3,3'-Dichlorobenzidine	290	U
56-55-3	Benzo(a)anthracene	570	
218-01-9	Chrysene	810	
117-81-7	Bis(2-ethylhexyl)phthalate	1400 500 ~~210~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	290	U
205-99-2	Benzo(b)fluoranthene	1300	
207-08-9	Benzo(k)fluoranthene	400	
50-32-8	Benzo(a)pyrene	690	
193-39-5	Indeno(1,2,3-cd)pyrene	400	
53-70-3	Dibenzo(a,h)anthracene	84.	J
191-24-2	Benzo(g,h,i)perylene	280	J
58-90-2	2,3,4,6-Tetrachlorophenol	290	U

[1] Cannot be separated from Diphenylamine

9-22-

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KQ9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ42C06

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 41. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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		Unknown Propane, 1-(1-methylethoxy)-	3.34	640	~~JB~~ U
02		Unknown Glycine, N-(2-cyanoethyl)-	3.45	470	~~JB~~ U
03		Unknown DL-3-Methyl-2-butanol, acetate	4.00	360	J
04	544-63-8	Tetradecanoic acid	10.12	330	JN
05		Unknown 8-Hexadecyne	11.11	510	J
06	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	11.30	700	JN
07	112-39-0	Hexadecanoic acid, methyl ester	11.45	530	JN
08	1000333-19-5	cis-9-Hexadecenoic acid	11.59	710	JN
09	57-10-3	n-Hexadecanoic acid	11.75	3500	JN
10	84-65-1	9,10-Anthracenedione	12.03	480	JN
11	57-11-4	Octadecanoic acid	13.16	470	JN
12		Unknown 2-Bromo-5,7-dimethyl[1,2,4]triazolo[1,5-	14.57	530	J
13	111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,2	16.14	1000	JN
14		Unknown Pyrimidine-2,4,6(1H,3H,5H)-trione, 1-(2-	17.33	1500	J
15	53584-60-4	28-Nor-17.alpha.(H)-hopane	17.97	420	JN
16	360-68-9	Cholestan-3-ol, (3.beta.,5.beta.)-	18.06	1300	JN
17	10191-41-0	dl-.alpha.-Tocopherol	18.22	550	JN
18	57-88-5	Cholesterol	18.34	1700	JN
19		Unknown Tetradecanoic acid, hexadecyl ester	18.44	580	J
20		Unknown Sulfurous acid, butyl heptadecyl ester	18.73	390	J
21		Unknown Dibenzo[def,mno]chrysene	19.03	500	J
22	83-48-7	Stigmasterol	19.58	530	JN
23	83-47-6	.gamma.-Sitosterol	20.26	3800	JN
24		Unknown d-Norpregnane (5.alpha.,14.alpha.)	20.43	960	J
25		Unknown Benz[c]acridine, 5,10-dimethyl-	20.57	410	J
26		Unknown 4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a	20.86	1100	J
27		Unknown 2-Cyclohexene-1-carboxaldehyde, 2,6-dime	21.03	890	J
28		Unknown Phthalic anhydride	21.17	570	~~J~~ U
29	545-47-1	Lupeol	21.47	970	JN
30		Unknown 2,3-Diaminophenol	21.89	1100	J
	E966796[2]	Total Alkanes	N/A	8000	J

SS 9/22-11

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ43C07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	230 ~~27.~~	~~JB~~ U
108-95-2	Phenol	230	U
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	10.	J
106-44-5	4-Methylphenol	35.	J
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	14.	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	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	11.	J
99-09-2	3-Nitroaniline	450	U
83-32-9	Acenaphthene	37.	J

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ43C07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.5 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	24.	J
121-14-2	2,4-Dinitrotoluene	230	U
84-66-2	Diethylphthalate	230	U
86-73-7	Fluorene	42.	J
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	570	
120-12-7	Anthracene	94.	J
86-74-8	Carbazole	120	J
84-74-2	Di-n-butylphthalate	230 ~~11.~~	~~JB~~ U
206-44-0	Fluoranthene	1300	
129-00-0	Pyrene	810	
85-68-7	Butylbenzylphthalate	230	U
91-94-1	3,3'-Dichlorobenzidine	230	U
56-55-3	Benzo(a)anthracene	440	
218-01-9	Chrysene	560	
117-81-7	Bis(2-ethylhexyl)phthalate	1200 ~~450~~ ~~140~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	230	U
205-99-2	Benzo(b)fluoranthene	950	
207-08-9	Benzo(k)fluoranthene	280	
50-32-8	Benzo(a)pyrene	490	
193-39-5	Indeno(1,2,3-cd)pyrene	270	
53-70-3	Dibenzo(a,h)anthracene	61.	J
191-24-2	Benzo(g,h,i)perylene	190	J
58-90-2	2,3,4,6-Tetrachlorophenol	230	U

9/22/11

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ43C07

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane-2-methanol, 2,4-dimethyl-	3.35	540	J
02		Unknown Glycine, N-(2-cyanoethyl)-	3.45	400	~~JB~~ U
03		Unknown 1,4-Butanediamine	4.00	290	J
04		Unknown Tetradecanoic acid	10.12	200	J
05		Unknown 3,4-Octadiene, 7-methyl-	11.10	380	J
06	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	11.30	540	JN
07	112-39-0	Hexadecanoic acid, methyl ester	11.45	390	JN
08	2091-29-4	9-Hexadecenoic acid	11.58	480	JN
09	84-65-1	9,10-Anthracenedione	12.03	340	JN
10		Unknown 1H-Pyrazole-4-carbonitrile, 5-amino-1-(t	14.59	500	J
11	7683-64-9	Squalene	16.14	560	JN
12		Unknown Phthalic acid, monoethyl ester	17.33	1100	~~J~~ U
13		Unknown .gamma.-Tocopherol	17.63	330	J
14		Unknown 28-Nor-17.alpha.(H)-hopane	17.97	200	J
15		Unknown Cholestanol	18.06	570	J
16	10191-41-0	dl-.alpha.-Tocopherol	18.22	240	JN
17	57-88-5	Cholesterol	18.34	890	JN
18		Unknown 2-Methoxyphenothiazine	18.43	290	J
19		Unknown Cholestan-3-one, (5.alpha.)-	18.73	200	J
20		Unknown Dibenzo[def,mno]chrysene	19.03	460	J
21	474-62-4	Campesterol	19.30	340	JN
22		Unknown Anthracene, 9-butyltetradecahydro-	19.56	310	J
23	83-46-5	.beta.-Sitosterol	20.25	2100	JN
24		Unknown 4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a	20.42	580	J
25	540-10-3	Hexadecanoic acid, hexadecyl ester	20.56	280	JN
26		Unknown Pyrrolo[2,3-b]indole, 1,2,3,3a,8,8a-hexa	20.85	700	J
27		Unknown 1,1,4a,6-Tetramethyl-5-(phenylthio)methy	21.02	460	J
28		Unknown Phthalic anhydride	21.18	430	~~J~~ U
29	86917-79-5	6-Isopropenyl-4,8a-dimethyl-4a,5,6,7,8,8a-hexahy	21.46	570	JN
30		Unknown Androst-4-en-3-one, 17-hydroxy-, (10.alp	21.87	460	J
	E966796[2]	Total Alkanes	N/A	3000	J

[2] EPA-designated Registry Number.

9/22

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168008

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ44C08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 32. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	~~250~~ 21.	~~U~~ J
108-95-2	Phenol	250	U
111-44-4	Bis(2-chloroethyl)ether	250	U
95-57-8	2-Chlorophenol	250	U
95-48-7	2-Methylphenol	250	U
108-60-1	2,2'-Oxybis(1-chloropropane)	250	U
98-86-2	Acetophenone	9.6	J
106-44-5	4-Methylphenol	250	U
621-64-7	N-Nitroso-di-n-propylamine	250	U
67-72-1	Hexachloroethane	250	U
98-95-3	Nitrobenzene	250	U
78-59-1	Isophorone	250	U
88-75-5	2-Nitrophenol	250	U
105-67-9	2,4-Dimethylphenol	250	U
111-91-1	Bis(2-chloroethoxy)methane	250	U
120-83-2	2,4-Dichlorophenol	250	U
91-20-3	Naphthalene	12.	J
106-47-8	4-Chloroaniline	250	U
87-68-3	Hexachlorobutadiene	250	U
105-60-2	Caprolactam	250	U
59-50-7	4-Chloro-3-methylphenol	250	U
91-57-6	2-Methylnaphthalene	8.4	J
77-47-4	Hexachlorocyclopentadiene	250	U
88-06-2	2,4,6-Trichlorophenol	250	U
95-95-4	2,4,5-Trichlorophenol	250	U
92-52-4	1,1'-Biphenyl	250	U
91-58-7	2-Chloronaphthalene	250	U
88-74-4	2-Nitroaniline	490	U
131-11-3	Dimethylphthalate	250	U
606-20-2	2,6-Dinitrotoluene	250	U
208-96-8	Acenaphthylene	15.	J
99-09-2	3-Nitroaniline	490	U
83-32-9	Acenaphthene	44.	J

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168008

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ44C08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 32. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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	490	U
100-02-7	4-Nitrophenol	490	U
132-64-9	Dibenzofuran	31.	J
121-14-2	2,4-Dinitrotoluene	250	U
84-66-2	Diethylphthalate	250	U
86-73-7	Fluorene	57.	J
7005-72-3	4-Chlorophenyl-phenylether	250	U
100-01-6	4-Nitroaniline	490	U
534-52-1	4,6-Dinitro-2-methylphenol	490	U
86-30-6	N-Nitrosodiphenylamine[1]	250	U
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U
101-55-3	4-Bromophenyl-phenylether	250	U
118-74-1	Hexachlorobenzene	250	U
1912-24-9	Atrazine	250	U
87-86-5	Pentachlorophenol	490	U
85-01-8	Phenanthrene	770	
120-12-7	Anthracene	130	J
86-74-8	Carbazole	160	J
84-74-2	Di-n-butylphthalate	250 ~~18.~~	~~JB~~ U
206-44-0	Fluoranthene	2000	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	33.	J
91-94-1	3,3'-Dichlorobenzidine	250	U
56-55-3	Benzo(a)anthracene	670	
218-01-9	Chrysene	850	
117-81-7	Bis(2-ethylhexyl)phthalate	1200 500 ~~200~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	250	U
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	420	
50-32-8	Benzo(a)pyrene	770	
193-39-5	Indeno(1,2,3-cd)pyrene	430	
53-70-3	Dibenzo(a,h)anthracene	94.	J
191-24-2	Benzo(g,h,i)perylene	320	
58-90-2	2,3,4,6-Tetrachlorophenol	250	U

[1] Cannot be separated from Diphenylamine

ST 9/22/11

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168008

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ44C08

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 32. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

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		Unknown Propane, 1-(1-methylethoxy)-	3.34	410	~~JB~~ U
02	107-41-5	Hexylene Glycol	3.39	370	JN
03		Unknown Glycine, N-(2-cyanoethyl)-	3.45	330	~~JB~~ U
04		Unknown 1,4-Butanediamine	4.00	240	J
05		Unknown 9-Octadecyne	11.11	300	J
06	112-39-0	Hexadecanoic acid, methyl ester	11.45	280	JN
07	2416-20-8	Hexadecenoic acid, Z-11-	11.57	400	JN
08	84-65-1	9,10-Anthracenedione	12.03	440	JN
09	33543-31-6	Fluoranthene, 2-methyl-	13.67	200	JN
10		Unknown Cyclopenta[cd]pyrene	14.58	270	J
11	473-08-5	7-Isopropenyl-1,4a-dimethyl-4,4a,5,6,7,8-hexahyd	15.57	240	JN
12	7683-64-9	Squalene	16.14	840	JN
13		Unknown 11-Dodecen-1-ol, 2,4,6-trimethyl-, (R,R,	16.63	200	J
14	192-97-2	Benzo[e]pyrene	16.68	440	JN
15		Unknown 1H-Imidazole, 2,4,5-triphenyl-	17.33	1400	J
16		Unknown .gamma.-Tocopherol	17.63	380	J
17		Unknown (1R,2S,8R,8Ar)-8-acetoxy-1-(2-hydroxyeth	17.97	300	J
18	360-68-9	Cholestan-3-ol, (3.beta.,5.beta.)-	18.07	620	JN
19	10191-41-0	dl-.alpha.-Tocopherol	18.23	560	JN
20	7494-34-0	26-Nor-5-cholesten-3.beta.-ol-25-one	18.34	840	JN
21		Unknown Tetradecanoic acid, hexadecyl ester	18.45	840	J
22	474-62-4	Campesterol	19.31	210	JN
23		Unknown Anthracene, 9-cyclohexyltetradecahydro-	19.57	450	J
24	83-47-6	.gamma.-Sitosterol	20.26	4000	JN
25		Unknown 4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a	20.44	1300	J
26		Unknown Hexadecanoic acid, hexadecyl ester	20.56	250	J
27		Unknown 4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a	20.85	1900	J
28		Unknown 6-Isopropenyl-4,8a-dimethyl-4a,5,6,7,8,8	21.03	800	J
29		Unknown Phthalic anhydride	21.17	480	~~J~~ U
30		Unknown Testosterone	21.89	820	J
	E966796[2]	Total Alkanes	N/A	3000	J

ST 9/22/11

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168009

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ45C09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 3.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	650	U
108-95-2	Phenol	650	U
111-44-4	Bis(2-chloroethyl)ether	650	U
95-57-8	2-Chlorophenol	650	U
95-48-7	2-Methylphenol	650	U
108-60-1	2,2'-Oxybis(1-chloropropane)	650	U
98-86-2	Acetophenone	650	U
106-44-5	4-Methylphenol	650	U
621-64-7	N-Nitroso-di-n-propylamine	650	U
67-72-1	Hexachloroethane	650	U
98-95-3	Nitrobenzene	650	U
78-59-1	Isophorone	650	U
88-75-5	2-Nitrophenol	650	U
105-67-9	2,4-Dimethylphenol	650	U
111-91-1	Bis(2-chloroethoxy)methane	650	U
120-83-2	2,4-Dichlorophenol	650	U
91-20-3	Naphthalene	51.	J
106-47-8	4-Chloroaniline	650	U
87-68-3	Hexachlorobutadiene	650	U
105-60-2	Caprolactam	650	U
59-50-7	4-Chloro-3-methylphenol	650	U
91-57-6	2-Methylnaphthalene	27.	J
77-47-4	Hexachlorocyclopentadiene	650	U
88-06-2	2,4,6-Trichlorophenol	650	U
95-95-4	2,4,5-Trichlorophenol	650	U
92-52-4	1,1'-Biphenyl	650	U
91-58-7	2-Chloronaphthalene	650	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	650	U
606-20-2	2,6-Dinitrotoluene	650	U
208-96-8	Acenaphthylene	24.	J
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	240	J

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168009

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ45C09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 3.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	160	J
121-14-2	2,4-Dinitrotoluene	650	U
84-66-2	Diethylphthalate	650	U
86-73-7	Fluorene	310	J
7005-72-3	4-Chlorophenyl-phenylether	650	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-Nitrosodiphenylamine[1]	650	U
95-94-3	1,2,4,5-Tetrachlorobenzene	650	U
101-55-3	4-Bromophenyl-phenylether	650	U
118-74-1	Hexachlorobenzene	650	U
1912-24-9	Atrazine	650	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	3500	
120-12-7	Anthracene	700	
86-74-8	Carbazole	630	J
84-74-2	Di-n-butylphthalate	650 ~~29.~~	~~JB~~ U
206-44-0	Fluoranthene	6200	
129-00-0	Pyrene	3900	
85-68-7	Butylbenzylphthalate	24.	J
91-94-1	3,3'-Dichlorobenzidine	650	U
56-55-3	Benzo(a)anthracene	2000	
218-01-9	Chrysene	5 2100	
117-81-7	Bis(2-ethylhexyl)phthalate	3200 ~~1300~~ ~~110~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	650	U
205-99-2	Benzo(b)fluoranthene	3300	
207-08-9	Benzo(k)fluoranthene	1200	
50-32-8	Benzo(a)pyrene	2100	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	260	J
191-24-2	Benzo(g,h,i)perylene	950	
58-90-2	2,3,4,6-Tetrachlorophenol	650	U

[1] Cannot be separated from Diphenylamine

5r 9/22/11

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168009

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DLJ45C09

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 3.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 1-(1-methylethoxy)-	3.34	400	~~JB~~ U
02		Unknown Glycine, N-(2-cyanoethyl)-	3.44	310	~~JB~~ U
03	112-39-0	Hexadecanoic acid, methyl ester	11.45	530	JN
04	2531-84-2	Phenanthrene, 2-methyl-	11.50	280	JN
05	203-64-5	4H-Cyclopenta[def]phenanthrene	11.63	570	JN
06	57-10-3	n-Hexadecanoic acid	11.70	430	JN
07		Unknown 9,10-Anthracenedione	12.03	980	J
08	2381-21-7	Pyrene, 1-methyl-	13.66	520	JN
09	2381-21-7	Pyrene, 1-methyl-	13.77	360	JN
10		Unknown 7H-Benz[de]anthracen-7-one	14.39	360	J
11		Unknown Cyclopenta(cd)pyrene, 3,4-dihydro-	14.57	270	J
12		Unknown Cyclopenta(cd)pyrene, 3,4-dihydro-	14.97	350	J
13	192-97-2	Benzo[e]pyrene	16.67	840	JN
14		Unknown Ninhydrin	17.32	730	J
15		Unknown Dibenzo[def,mno]chrysene	18.79	300	J
16		Unknown Phthalic anhydride	21.14	450	~~J~~ U
17					
18					
19					
20					
21					
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29					
30					
	E966796[2]	Total Alkanes	N/A	1600	J

[2] EPA-designated Registry Number.

9/22/

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ46C10

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	~~21.~~ 240	~~JB~~ U
108-95-2	Phenol	8.3	J
111-44-4	Bis(2-chloroethyl)ether	240	U
95-57-8	2-Chlorophenol	240	U
95-48-7	2-Methylphenol	240	U
108-60-1	2,2'-Oxybis(1-chloropropane)	240	U
98-86-2	Acetophenone	9.6	J
106-44-5	4-Methylphenol	240	U
621-64-7	N-Nitroso-di-n-propylamine	240	U
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	17.	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	240	U
91-57-6	2-Methylnaphthalene	8.9	J
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	470	U
131-11-3	Dimethylphthalate	240	U
606-20-2	2,6-Dinitrotoluene	240	U
208-96-8	Acenaphthylene	15.	J
99-09-2	3-Nitroaniline	470	U
83-32-9	Acenaphthene	49.	J

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ46C10

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	470	U
100-02-7	4-Nitrophenol	470	U
132-64-9	Dibenzofuran	37.	J
121-14-2	2,4-Dinitrotoluene	240	U
84-66-2	Diethylphthalate	240	U
86-73-7	Fluorene	52.	J
7005-72-3	4-Chlorophenyl-phenylether	240	U
100-01-6	4-Nitroaniline	470	U
534-52-1	4,6-Dinitro-2-methylphenol	470	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	470	U
85-01-8	Phenanthrene	960	
120-12-7	Anthracene	120	J
86-74-8	Carbazole	190	J
84-74-2	Di-n-butylphthalate	240 ~~12.~~	~~JB~~ U
206-44-0	Fluoranthene	2200	
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	240	U
91-94-1	3,3'-Dichlorobenzidine	240	U
56-55-3	Benzo(a)anthracene	640	
218-01-9	Chrysene	860	
117-81-7	Bis(2-ethylhexyl)phthalate	1200 ~~470~~ 150	~~JB~~ U
117-84-0	Di-n-octylphthalate	240	U
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	510	
50-32-8	Benzo(a)pyrene	820	
193-39-5	Indeno(1,2,3-cd)pyrene	460	
53-70-3	Dibenzo(a,h)anthracene	100	J
191-24-2	Benzo(g,h,i)perylene	340	
58-90-2	2,3,4,6-Tetrachlorophenol	240	U

[1] Cannot be separated from Diphenylamine

SR 9/22/

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ46C10

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 30. Decanted: (Y/N) N Date Received: 08/09/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/19/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 1-(1-methylethoxy)-	3.34	450	~~JB~~ U
02		Unknown Glycine, N-(2-cyanoethyl)-	3.45	360	~~JB~~ U
03		Unknown DL-3-Methyl-2-butanol, acetate	4.00	270	J
04	1000342-70-4	1-Octadecanesulphonyl chloride	9.65	590	JN
05	124-10-7	Methyl tetradecanoate	9.85	400	JN
06	544-63-8	Tetradecanoic acid	10.12	260	JN
07	56797-43-4	cis,cis,cis-7,10,13-Hexadecatrienal	11.20	260	JN
08	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	11.30	1100	JN
09	112-39-0	Hexadecanoic acid, methyl ester	11.46	940	JN
10	1000333-19-5	cis-9-Hexadecenoic acid	11.59	970	JN
11	84-65-1	9,10-Anthracenedione	12.03	510	JN
12	150-86-7	Phytol	12.86	220	JN
13		Unknown cis,cis,cis-7,10,13-Hexadecatrienal	13.02	210	J
14	2381-21-7	Pyrene, 1-methyl-	13.67	190	JN
15		Unknown 11H-Benzo[b]fluorene	13.76	220	J
16	1000336-45-9	Methyl 5,8,11,14,17-eicosapentaenoate	13.97	180	JN
17		Unknown 7H-Benz[de]anthracen-7-one	14.39	180	J
18	7683-64-9	Squalene	16.14	370	JN
19	192-97-2	Benzo[e]pyrene	16.68	280	JN
20		Unknown Phthalic acid, monoethyl ester	17.33	1100	~~J~~ U
21		Unknown Pentanoic acid, 4-methyl-2-(2,5-dimethyl	17.96	180	J
22		Unknown Cholestan-3-ol, (3.alpha.,5.beta.)-	18.07	260	J
23	7494-34-0	26-Nor-5-cholesten-3.beta.-ol-25-one	18.34	440	JN
24		Unknown Tetradecanoic acid, hexadecyl ester	18.43	220	J
25	83-46-5	.beta.-Sitosterol	20.26	680	JN
26		Unknown Naphthalene, 1-(phenylmethyl)-	20.43	240	J
27		Unknown Octadecyl trifluoroacetate	20.56	210	J
28	300574-36-1	5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan	21.01	220	JN
29		Unknown Phthalic anhydride	21.17	540	~~J~~ U
30		Unknown 5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofur	21.51	190	J
	E966796[2]	Total Alkanes	N/A	880	J

[2] EPA-designated Registry Number.

ST 9/22/11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK48

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232048

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ24BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/18/2011

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	8.0	J
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.

SBLK48

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232048

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ24BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/18/2011

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	6.1	J
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	8.6	J
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.

SBLK48

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232048

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DLJ24BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/10/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/18/2011

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		Unknown Propane, 1-(1-methylethoxy)-	3.34	400	J
02		Unknown Glycine, N-(2-cyanoethyl)-	3.44	300	J
03		Unknown 2-Propanone, O-methyloxime	4.00	160	J
04		Unknown Phthalic anhydride	17.31	460	J
05		Unknown Phthalic acid, monoethyl ester	21.13	620	J
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

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	55	65	66	71			0
02	PLCSS1	65	81	83	74			0
03	E5KQ6	49	57	62	53			0
04	E5KQ7	51	51	57	54			0
05	E5KQ8	58	57	56	59			0
06	E5KQ9	61	66	71	61			0
07	E5KR0	56	65	61	60			0
08	E5KR1	57	63	62	57			0
09	E5KR2	67	68	85	108			0
10	E5KR3	53	53	63	73			0
11	E5KQ6MS	48	56	60	60			0
12	E5KQ6MSD	42	47	53	50			0
13								
14								
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix Spike - EPA Sample No.: E5KQ6

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)	22.	0.061	13.	58	46-127
Heptachlor	22.	0	13.	60	35-130
Aldrin	22.	0	13.	60	34-132
Dieldrin	43.	0.99	31.	70	31-134
Endrin	43.	0	32.	74	42-139
4,4'-DDT	43.	1.4	31.	69	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	22.	11.	51	14	0-50	46-127
Heptachlor	22.	11.	53	14	0-31	35-130
Aldrin	22.	11.	52	15	0-43	34-132
Dieldrin	43.	27.	60	15	0-38	31-134
Endrin	43.	28.	64	14	0-45	42-139
4,4'-DDT	43.	27.	60	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix Spike - EPA Sample No.: E5KQ6

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)	22.	0	17.	78	46-127
Heptachlor	22.	0	16.	76	35-130
Aldrin	22.	0	17.	80	34-132
Dieldrin	43.	1.7	37.	82	31-134
Endrin	43.	0.14	37.	86	42-139
4,4'-DDT	43.	1.6	40.	90	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	22.	14.	64	19	0-50	46-127
Heptachlor	22.	14.	63	20	0-31	35-130
Aldrin	22.	14.	65	20	0-43	34-132
Dieldrin	43.	30.	66	22	0-38	31-134
Endrin	43.	30.	68	23	0-45	42-139
4,4'-DDT	43.	32.	71	23	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Lab Sample ID: 234611 LCS Lot No.: _____

Date Extracted: 08/10/2011 Date Analyzed (1): 08/21/2011

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	1.5	91	50-120
Heptachlor epoxide	1.7	1.6	99	50-150
Dieldrin	3.3	3.5	104	30-130
4,4'-DDE	3.3	3.0	90	50-150
Endrin	3.3	3.2	97	50-120
Endosulfan sulfate	3.3	3.4	101	50-120
gamma-Chlordane	1.7	1.9	115	30-130

Instrument ID (2): GCE31 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/22/2011

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.3	80	50-120
Heptachlor epoxide	1.7	1.3	80	50-150
Dieldrin	3.3	2.5	75	30-130
4,4'-DDE	3.3	2.7	82	50-150
Endrin	3.3	3.7	110	50-120
Endosulfan sulfate	3.3	2.7	81	50-120
gamma-Chlordane	1.7	1.4	83	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.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Lab File ID: 31110820A018,31110820B018 Lab Sample ID: 234598

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 08/10/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 08/21/2011 Date Analyzed (2): 08/21/2011

Time Analyzed (1): 22:03 Time Analyzed (2): 22:33

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	234611	08/21/2011	08/22/2011
02	E5KQ6	1122168001	08/22/2011	08/22/2011
03	E5KQ7	1122168004	08/22/2011	08/22/2011
04	E5KQ8	1122168005	08/22/2011	08/22/2011
05	E5KQ9	1122168006	08/22/2011	08/22/2011
06	E5KR0	1122168007	08/22/2011	08/22/2011
07	E5KR1	1122168008	08/22/2011	08/22/2011
08	E5KR2	1122168009	08/22/2011	08/22/2011
09	E5KR3	1122168010	08/22/2011	08/22/2011
10	E5KQ6MS	1122168002	08/22/2011	08/22/2011
11	E5KQ6MSD	1122168003	08/22/2011	08/22/2011
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COMMENTS: _____

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/21/2011 08/21/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.58 DCB: 21.70

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	31110820A004	08/21/2011	14:54	7.58	21.70
02	PEM11	31110820A005	08/21/2011	15:25	7.58	21.70
03	TOXAPH111	31110820A006	08/21/2011	15:55	7.58	21.70
04	TOXAPH211	31110820A007	08/21/2011	16:25	7.58	21.70
05	TOXAPH311	31110820A008	08/21/2011	16:56	7.58	21.70
06	TOXAPH411	31110820A009	08/21/2011	17:26	7.58	21.70
07	TOXAPH511	31110820A010	08/21/2011	17:57	7.58	21.70
08	INDC111	31110820A011	08/21/2011	18:27	7.58	21.70
09	INDC211	31110820A012	08/21/2011	18:57	7.58	21.70
10	INDC311	31110820A013	08/21/2011	19:28	7.58	21.70
11	INDC411	31110820A014	08/21/2011	19:59	7.58	21.70
12	INDC511	31110820A015	08/21/2011	20:29	7.58	21.70
13	PIBLK21	31110820A016	08/21/2011	20:59	7.58	21.70
14	PEM21	31110820A017	08/21/2011	21:30	7.58	21.70
15	PBLKS1	31110820A018	08/21/2011	22:03	7.59	21.70
16	PLCSS1	31110820A019	08/21/2011	22:33	7.58	21.70
17	ZZZZZ		08/22/2011	00:34		
18	PIBLK31	31110820A021	08/22/2011	01:04	7.57	21.69
19	INDC331	31110820A022	08/22/2011	01:35	7.57	21.69
20	ZZZZZ		08/22/2011	02:05		
21	ZZZZZ		08/22/2011	02:36		
22	E5KQ6	31110820A025	08/22/2011	03:06	7.58	21.69
23	E5KQ6MS	31110820A026	08/22/2011	03:36	7.58	21.70
24	E5KQ6MSD	31110820A027	08/22/2011	04:07	7.57	21.70
25	E5KQ7	31110820A028	08/22/2011	04:37	7.58	21.70
26	E5KQ8	31110820A029	08/22/2011	05:07	7.58	21.70
27	E5KQ9	31110820A030	08/22/2011	05:38	7.58	21.70
28	E5KR0	31110820A031	08/22/2011	06:08	7.58	21.70
29	E5KR1	31110820A032	08/22/2011	06:39	7.58	21.71
30	E5KR2	31110820A033	08/22/2011	07:09	7.58	21.70
31	E5KR3	31110820A034	08/22/2011	07:40	7.58	21.70
32	ZZZZZ		08/22/2011	08:10		

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/21/2011 08/21/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.58 DCB: 21.70

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ		08/22/2011	08:41		
02	ZZZZZ		08/22/2011	09:11		
03	PIBLK41	31110820A038	08/22/2011	09:41	7.58	21.70
04	PEM41	31110820A039	08/22/2011	10:12	7.58	21.70
05						
06						
07						
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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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/21/2011 08/21/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.14 DCB: 23.21

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC12	31110820B004	08/21/2011	15:25	8.14	23.22
02	PEM12	31110820B005	08/21/2011	15:55	8.14	23.22
03	TOXAPH112	31110820B006	08/21/2011	16:25	8.14	23.21
04	TOXAPH212	31110820B007	08/21/2011	16:56	8.14	23.21
05	TOXAPH312	31110820B008	08/21/2011	17:26	8.14	23.22
06	TOXAPH412	31110820B009	08/21/2011	17:57	8.14	23.22
07	TOXAPH512	31110820B010	08/21/2011	18:27	8.14	23.21
08	INDC112	31110820B011	08/21/2011	18:57	8.14	23.22
09	INDC212	31110820B012	08/21/2011	19:28	8.14	23.21
10	INDC312	31110820B013	08/21/2011	19:59	8.14	23.21
11	INDC412	31110820B014	08/21/2011	20:29	8.14	23.21
12	INDC512	31110820B015	08/21/2011	20:59	8.13	23.21
13	PIBLK22	31110820B016	08/21/2011	21:30	8.14	23.21
14	PEM22	31110820B017	08/21/2011	22:03	8.14	23.21
15	PBLKS1	31110820B018	08/21/2011	22:33	8.14	23.21
16	PLCSS1	31110820B019	08/22/2011	00:34	8.14	23.21
17	ZZZZZ		08/22/2011	01:04		
18	PIBLK32	31110820B021	08/22/2011	01:35	8.14	23.21
19	INDC332	31110820B022	08/22/2011	02:05	8.14	23.21
20	ZZZZZ		08/22/2011	02:36		
21	ZZZZZ		08/22/2011	03:06		
22	E5KQ6	31110820B025	08/22/2011	03:36	8.14	23.21
23	E5KQ6MS	31110820B026	08/22/2011	04:07	8.14	23.21
24	E5KQ6MSD	31110820B027	08/22/2011	04:37	8.14	23.21
25	E5KQ7	31110820B028	08/22/2011	05:07	8.15	23.21
26	E5KQ8	31110820B029	08/22/2011	05:38	8.15	23.21
27	E5KQ9	31110820B030	08/22/2011	06:08	8.15	23.21
28	E5KR0	31110820B031	08/22/2011	06:39	8.15	23.21
29	E5KR1	31110820B032	08/22/2011	07:09	8.15	23.21
30	E5KR2	31110820B033	08/22/2011	07:40	8.15	23.21
31	E5KR3	31110820B034	08/22/2011	08:10	8.14	23.21
32	ZZZZZ		08/22/2011	08:41		

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/21/2011 08/21/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.14 DCB: 23.21

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ		08/22/2011	09:11		
02	ZZZZZ		08/22/2011	09:41		
03	PIBLK42	31110820B038	08/22/2011	10:12	8.14	23.21
04	PEM42	31110820B039	08/22/2011	10:42	8.14	23.21
05						
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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.

E5KQ6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820A025,31110820B025

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

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 ~~0.12~~	~~JP~~ U
319-86-8	delta-BHC	2.2 ~~0.46~~	~~JBP~~ 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 ~~0.050~~	~~JP~~ U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3 ~~0.99~~	~~JP~~ U
72-55-9	4,4'-DDE	1.6	J
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3 ~~0.48~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	1.4	J
72-43-5	Methoxychlor	22.	U
53494-70-5	Endrin ketone	0.41	J
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

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820A026

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

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	~~0.67~~	~~J~~
319-85-7	beta-BHC	2.2 ~~0.11~~	~~JP~~ U
319-86-8	delta-BHC	~~0.61~~	~~JB~~
58-89-9	gamma-BHC (Lindane)	13.	P
76-44-8	Heptachlor	13.	P
309-00-2	Aldrin	13.	P
1024-57-3	Heptachlor epoxide	2.2 ~~0.22~~	~~JP~~ U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	31.	
72-55-9	4,4'-DDE	1.6	JP
72-20-8	Endrin	32.	
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	1.4	JP
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	31.	P
72-43-5	Methoxychlor	22.	U
53494-70-5	Endrin ketone	1.9	J
7421-93-4	Endrin aldehyde	4.3 ~~0.14~~	~~JP~~ U
5103-71-9	alpha-Chlordane	0.76	J
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U

9-14-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820B026

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

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	~~0.90~~	~~JP~~
319-86-8	delta-BHC	2.2 ~~0.52~~	~~JB~~ U
58-89-9	gamma-BHC (Lindane)	~~17.~~	~~P~~
76-44-8	Heptachlor	~~16.~~	~~P~~
309-00-2	Aldrin	~~17.~~	~~P~~
1024-57-3	Heptachlor epoxide	~~0.45~~	~~JP~~
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	~~37.~~	~~—~~
72-55-9	4,4'-DDE	~~2.4~~	~~JP~~
72-20-8	Endrin	~~37.~~	~~—~~
33213-65-9	Endosulfan II	~~0.31~~	~~J~~
72-54-8	4,4'-DDD	~~1.8~~	~~JP~~
1031-07-8	Endosulfan sulfate	~~0.91~~	~~J~~
50-29-3	4,4'-DDT	~~40.~~	~~P~~
72-43-5	Methoxychlor	~~17.~~	~~J~~
53494-70-5	Endrin ketone	~~2.0~~	~~J~~
7421-93-4	Endrin aldehyde	~~3.0~~	~~JP~~
5103-71-9	alpha-Chlordane	~~0.87~~	~~J~~
5103-74-2	gamma-Chlordane	~~0.19~~	~~J~~
8001-35-2	Toxaphene	220	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820A027

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

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	~~0.59~~	~~J~~
319-85-7	beta-BHC	2.2 ~~0.091~~	~~JP~~ U
319-86-8	delta-BHC	~~2.7~~	~~BP~~
58-89-9	gamma-BHC (Lindane)	11.	P
76-44-8	Heptachlor	11.	
309-00-2	Aldrin	11.	P
1024-57-3	Heptachlor epoxide	2.2 ~~0.19~~	~~JP~~ U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	27.	
72-55-9	4,4'-DDE	1.3	JP
72-20-8	Endrin	28.	
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	1.3	J
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	27.	
72-43-5	Methoxychlor	22.	U
53494-70-5	Endrin ketone	1.6	J
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

9-14-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ6MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820B027

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

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	0.~~78~~	~~JP~~
319-86-8	delta-BHC	22~~0.53~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	~~14.~~	~~P~~
76-44-8	Heptachlor	~~14.~~	
309-00-2	Aldrin	~~14.~~	~~P~~
1024-57-3	Heptachlor epoxide	~~0.38~~	~~JP~~
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	~~30.~~	
72-55-9	4,4'-DDE	~~2.0~~	~~JP~~
72-20-8	Endrin	~~30.~~	
33213-65-9	Endosulfan II	0.~~21~~	~~J~~
72-54-8	4,4'-DDD	~~1.6~~	~~J~~
1031-07-8	Endosulfan sulfate	~~0.76~~	~~J~~
50-29-3	4,4'-DDT	~~32.~~	
72-43-5	Methoxychlor	~~13.~~	~~J~~
53494-70-5	Endrin ketone	~~1.6~~	~~J~~
7421-93-4	Endrin aldehyde	~~2.5~~	~~J~~
5103-71-9	alpha-Chlordane	~~0.70~~	~~J~~
5103-74-2	gamma-Chlordane	~~0.15~~	~~J~~
8001-35-2	Toxaphene	220	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820A028,31110820B028

% Moisture: 31. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

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	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5 ~~0.37~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	2.5	U
76-44-8	Heptachlor	2.5	U
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	2.5 ~~0.51~~	~~JP~~ U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	4.8	U
72-55-9	4,4'-DDE	1.9	JP
72-20-8	Endrin	4.8	U
33213-65-9	Endosulfan II	4.8	U
72-54-8	4,4'-DDD	4.8 ~~0.094~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	4.8	U
50-29-3	4,4'-DDT	2.7	JP
72-43-5	Methoxychlor	25.	U
53494-70-5	Endrin ketone	4.8	U
7421-93-4	Endrin aldehyde	4.8	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250	U

ST 9-14-11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31110820A029,31110820B029

% Moisture: 55. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	3.7	U
319-85-7	beta-BHC	0.50	J
319-86-8	delta-BHC	3.7 ~~0.53~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor epoxide	3.7 ~~0.73~~	~~JP~~ U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	3.7 ~~7.2~~ ~~3.7~~	~~JP~~ ~~U~~ JP
72-55-9	4,4'-DDE	8.1	P
72-20-8	Endrin	7.2	U
33213-65-9	Endosulfan II	7.2 ~~0.35~~	~~JP~~ U
72-54-8	4,4'-DDD	3.2	JP
1031-07-8	Endosulfan sulfate	7.2	U
50-29-3	4,4'-DDT	5.4	JP
72-43-5	Methoxychlor	37 ~~5.4~~	~~JP~~ U
53494-70-5	Endrin ketone	7.2	U
7421-93-4	Endrin aldehyde	7.2	U
5103-71-9	alpha-Chlordane	3.7	U
5103-74-2	gamma-Chlordane	3.7	U
8001-35-2	Toxaphene	370	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168006

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31110820A030,31110820B030

% Moisture: 41. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

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	2.9	U
319-85-7	beta-BHC	2.9 ~~0.21~~	~~JP~~ U
319-86-8	delta-BHC	2.9 ~~0.27~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9 ~~0.65~~	~~JP~~ U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	2.4	JP
72-55-9	4,4'-DDE	3.1	JP
72-20-8	Endrin	5.6	U
33213-65-9	Endosulfan II	5.6 ~~0.12~~	~~JP~~ U
72-54-8	4,4'-DDD	5.6	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	3.8	JP
72-43-5	Methoxychlor	29 ~~1.8~~	~~JP~~ U
53494-70-5	Endrin ketone	5.6	U
7421-93-4	Endrin aldehyde	5.6	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	2.9	U
8001-35-2	Toxaphene	290	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820A031,31110820B031

% Moisture: 27. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3 ~~0.55~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3 ~~0.57~~	~~JP~~ U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	2.1	JP
72-55-9	4,4'-DDE	2.0	JP
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5 ~~0.63~~	~~JP~~ U
72-54-8	4,4'-DDD	4.5 ~~0.68~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	2.8	JP
72-43-5	Methoxychlor	23.	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31110820A032,31110820B032

% Moisture: 32. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

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	2.5	U
319-85-7	beta-BHC	2.5 ~~0.15~~	~~JP~~ U
319-86-8	delta-BHC	0.68	~~JP~~ P
58-89-9	gamma-BHC (Lindane)	2.5	U
76-44-8	Heptachlor	2.5	U
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	0.80	JP
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	1.7	JP
72-55-9	4,4'-DDE	5.2	P
72-20-8	Endrin	4.9	U
33213-65-9	Endosulfan II	4.9	U
72-54-8	4,4'-DDD	3.9	JP
1031-07-8	Endosulfan sulfate	4.9	U
50-29-3	4,4'-DDT	3.3	JP
72-43-5	Methoxychlor	25.	U
53494-70-5	Endrin ketone	4.9	U
7421-93-4	Endrin aldehyde	4.9	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168009

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820A033,31110820B033

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 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	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 ~~0.32~~	~~JP~~ U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2 ~~0.31~~	~~JP~~ U
72-55-9	4,4'-DDE	1.9	JP
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2 ~~0.17~~	~~JP~~ U
72-54-8	4,4'-DDD	5.8	
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.8	
72-43-5	Methoxychlor	12.	JP
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	1.2	JP
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	3.4	P
8001-35-2	Toxaphene	220	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820A034,31110820B034

% Moisture: 30. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 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	U
319-85-7	beta-BHC	2.4 ~~0.10~~	~~JP~~ U
319-86-8	delta-BHC	2.4 ~~0.43~~	~~JB~~ U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4 ~~0.39~~	~~JP~~ U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.7	U
72-55-9	4,4'-DDE	1.8	JP
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	4.7	U
72-54-8	4,4'-DDD	4.7	U
1031-07-8	Endosulfan sulfate	4.7	U
50-29-3	4,4'-DDT	3.6	JP
72-43-5	Methoxychlor	24 ~~1.5~~	~~JP~~ U
53494-70-5	Endrin ketone	4.7	U
7421-93-4	Endrin aldehyde	4.7	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 234598

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820A018,31110820B018

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/21/2011

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 ~~0.054~~	~~JP~~ 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.	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

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 234611

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820A019

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/21/2011

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 ~~0.049~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	~~1.5~~	~~J~~
76-44-8	Heptachlor	1.7 ~~0.14~~	~~JP~~ U
309-00-2	Aldrin	~~0.37~~	~~J~~
1024-57-3	Heptachlor epoxide	~~1.6~~	~~J~~
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	~~3.5~~	~~P~~
72-55-9	4,4'-DDE	~~3.0~~	~~J~~
72-20-8	Endrin	3.2	J
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	~~3.4~~	
50-29-3	4,4'-DDT	0.081	J
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3 ~~0.40~~	~~JP~~ U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	~~1.9~~	~~P~~
8001-35-2	Toxaphene	170	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 234611

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110820B019

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/22/2011

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.~~11~~	~~JBP~~
58-89-9	gamma-BHC (Lindane)	1.3	J
76-44-8	Heptachlor	1.7 0.~~031~~	~~JP~~ 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	2.5	JP
72-55-9	4,4'-DDE	2.7	J
72-20-8	Endrin	~~3.7~~	~~—~~
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	2.7	J
50-29-3	4,4'-DDT	~~0.094~~	~~J~~
72-43-5	Methoxychlor	~~0.85~~	~~J~~
53494-70-5	Endrin ketone	3.3 ~~0.12~~	~~JP~~ U
7421-93-4	Endrin aldehyde	~~0.66~~	~~J~~
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.4	JP
8001-35-2	Toxaphene	170	U

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2R - FORM II ARO-2
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

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	43	46	97	86			0
02	ALCSS1	57	67	91	87			0
03	E5KQ6	86	96	75	88			0
04	E5KQ7	92	102	65	100			0
05	E5KQ8	81	88	53	83			0
06	E5KQ9	75	84	55	83			0
07	E5KR0	89	97	58	104			0
08	E5KR1	80	82	55	90			0
09	E5KR2	81	92	52	116			0
10	E5KR3	69	75	60	90			0
11	E5KQ6MS	88	99	75	106			0
12	E5KQ6MSD	85	90	67	92			0
13								
14								
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix Spike - EPA Sample No.: E5KQ6

Instrument ID: GCE19 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	170	0	180	107	29-135
AR1260	170	0	61.	35	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	170	160	94	13	0-15	29-135
AR1260	170	100	58	48 *	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix Spike - EPA Sample No.: E5KQ6

Instrument ID: GCE19 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	170	0	180	104	29-135
AR1260	170	0	210	120	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	170	180	103	1	0-15	29-135
AR1260	170	190	110	9	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Lab Sample ID: 234612 LCS Lot No.: _____

Date Extracted: 08/10/2011 Date Analyzed (1): 08/26/2011

Instrument ID (1): GCE19 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	31.	93	50-150
AR1260	33.	30.	91	50-150

Instrument ID (2): GCE19 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/26/2011

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	34.	103	50-150
AR1260	33.	33.	98	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Lab File ID: 19110823A031,19110823B031 Lab Sample ID: 234598

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 08/10/2011

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 08/26/2011 Date Analyzed (2): 08/26/2011

Time Analyzed (1): 08:33 Time Analyzed (2): 08:53

Instrument ID (1): GCE19 Instrument ID (2): GCE19

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	234612	08/26/2011	08/26/2011
02	E5KQ6	1122168001	08/26/2011	08/26/2011
03	E5KQ7	1122168004	08/26/2011	08/26/2011
04	E5KQ8	1122168005	08/26/2011	08/26/2011
05	E5KQ9	1122168006	08/26/2011	08/26/2011
06	E5KR0	1122168007	08/26/2011	08/26/2011
07	E5KR1	1122168008	08/26/2011	08/26/2011
08	E5KR2	1122168009	08/26/2011	08/26/2011
09	E5KR3	1122168010	08/26/2011	08/26/2011
10	E5KQ6MS	1122168002	08/26/2011	08/26/2011
11	E5KQ6MSD	1122168003	08/26/2011	08/26/2011
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/26/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.71 DCB: 12.27

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660111	19110823A004	08/25/2011	23:25	4.72	12.28
02	AR1660211	19110823A005	08/25/2011	23:45	4.72	12.28
03	AR1660311	19110823A006	08/26/2011	00:05	4.71	12.27
04	AR1660411	19110823A007	08/26/2011	00:26	4.71	12.27
05	AR1660511	19110823A008	08/26/2011	00:46	4.71	12.26
06	AR1221311	19110823A009	08/26/2011	01:07	4.71	12.26
07	AR1232311	19110823A010	08/26/2011	01:27	4.71	12.26
08	AR1242311	19110823A011	08/26/2011	01:47	4.71	12.26
09	AR1248311	19110823A014	08/26/2011	02:48	4.70	12.25
10	AR1254111	19110823A017	08/26/2011	03:49	4.70	12.25
11	AR1254211	19110823A018	08/26/2011	04:09	4.70	12.25
12	AR1254311	19110823A019	08/26/2011	04:30	4.70	12.24
13	AR1254411	19110823A020	08/26/2011	04:50	4.70	12.24
14	AR1254511	19110823A021	08/26/2011	05:10	4.69	12.24
15	AR1262311	19110823A022	08/26/2011	05:31	4.69	12.24
16	AR1268311	19110823A023	08/26/2011	05:51	4.69	12.24
17	AIBLK21	19110823A024	08/26/2011	06:11	4.69	12.24
18	AR1660321	19110823A025	08/26/2011	06:31	4.69	12.24
19	AR1254321	19110823A027	08/26/2011	07:12	4.69	12.24
20	ZZZZZ		08/26/2011	07:32		
21	ZZZZZ		08/26/2011	07:52		
22	ZZZZZ		08/26/2011	08:12		
23	ABLKS1	19110823A031	08/26/2011	08:33	4.69	12.23
24	ZZZZZ		08/26/2011	08:53		
25	ZZZZZ		08/26/2011	09:13		
26	ALCSS1	19110823A034	08/26/2011	09:33	4.69	12.23
27	ZZZZZ		08/26/2011	09:54		
28	ZZZZZ		08/26/2011	10:14		
29	AIBLK31	19110823A037	08/26/2011	10:34	4.69	12.23
30	AR1660331	19110823A038	08/26/2011	10:54	4.69	12.23
31	AR1254331	19110823A040	08/26/2011	11:35	4.69	12.23
32	E5KQ6	19110823A041	08/26/2011	11:55	4.69	12.22

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/26/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.71 DCB: 12.27

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KQ6MS	19110823A042	08/26/2011	12:15	4.69	12.23
02	E5KQ6MSD	19110823A043	08/26/2011	12:36	4.69	12.22
03	E5KQ7	19110823A044	08/26/2011	12:56	4.69	12.22
04	E5KQ8	19110823A045	08/26/2011	13:16	4.69	12.22
05	E5KQ9	19110823A046	08/26/2011	13:37	4.69	12.22
06	E5KR0	19110823A047	08/26/2011	13:57	4.69	12.22
07	E5KR1	19110823A048	08/26/2011	14:17	4.69	12.22
08	E5KR2	19110823A049	08/26/2011	14:37	4.69	12.22
09	E5KR3	19110823A050	08/26/2011	14:58	4.69	12.22
10	ZZZZZ		08/26/2011	15:18		
11	ZZZZZ		08/26/2011	15:39		
12	ZZZZZ		08/26/2011	15:59		
13	ZZZZZ		08/26/2011	16:19		
14	ZZZZZ		08/26/2011	16:40		
15	ZZZZZ		08/26/2011	17:00		
16	ZZZZZ		08/26/2011	17:20		
17	ZZZZZ		08/26/2011	17:40		
18	ZZZZZ		08/26/2011	18:01		
19	ZZZZZ		08/26/2011	18:21		
20	ZZZZZ		08/26/2011	18:41		
21	ZZZZZ		08/26/2011	19:02		
22	ZZZZZ		08/26/2011	19:22		
23	ZZZZZ		08/26/2011	19:42		
24	ZZZZZ		08/26/2011	20:02		
25	AIBLK41	19110823A066	08/26/2011	20:23	4.68	12.21
26	AR1660341	19110823A067	08/26/2011	20:43	4.68	12.21
27	AR1254341	19110823A069	08/26/2011	21:23	4.68	12.20
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.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/26/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.09 DCB: 13.35

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660112	19110823B004	08/25/2011	23:45	5.09	13.35
02	AR1660212	19110823B005	08/26/2011	00:05	5.09	13.35
03	AR1660312	19110823B006	08/26/2011	00:26	5.09	13.35
04	AR1660412	19110823B007	08/26/2011	00:46	5.09	13.35
05	AR1660512	19110823B008	08/26/2011	01:07	5.09	13.35
06	AR1221312	19110823B009	08/26/2011	01:27	5.09	13.34
07	AR1232312	19110823B010	08/26/2011	01:47	5.09	13.34
08	AR1242312	19110823B011	08/26/2011	02:07	5.09	13.34
09	AR1248312	19110823B014	08/26/2011	03:08	5.08	13.34
10	AR1254112	19110823B017	08/26/2011	04:09	5.08	13.34
11	AR1254212	19110823B018	08/26/2011	04:30	5.08	13.34
12	AR1254312	19110823B019	08/26/2011	04:50	5.08	13.34
13	AR1254412	19110823B020	08/26/2011	05:10	5.08	13.34
14	AR1254512	19110823B021	08/26/2011	05:31	5.08	13.34
15	AR1262312	19110823B022	08/26/2011	05:51	5.08	13.33
16	AR1268312	19110823B023	08/26/2011	06:11	5.08	13.34
17	AIBLK22	19110823B024	08/26/2011	06:31	5.08	13.34
18	AR1660322	19110823B025	08/26/2011	06:52	5.08	13.34
19	AR1254322	19110823B027	08/26/2011	07:32	5.08	13.33
20	ZZZZZ		08/26/2011	07:52		
21	ZZZZZ		08/26/2011	08:12		
22	ZZZZZ		08/26/2011	08:33		
23	ABLKS1	19110823B031	08/26/2011	08:53	5.08	13.33
24	ZZZZZ		08/26/2011	09:13		
25	ZZZZZ		08/26/2011	09:33		
26	ALCSS1	19110823B034	08/26/2011	09:54	5.08	13.33
27	ZZZZZ		08/26/2011	10:14		
28	ZZZZZ		08/26/2011	10:34		
29	AIBLK32	19110823B037	08/26/2011	10:54	5.08	13.33
30	AR1660332	19110823B038	08/26/2011	11:15	5.08	13.33
31	AR1254332	19110823B040	08/26/2011	11:55	5.08	13.33
32	E5KQ6	19110823B041	08/26/2011	12:15	5.08	13.33

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/26/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.09 DCB: 13.35

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KQ6MS	19110823B042	08/26/2011	12:36	5.08	13.32
02	E5KQ6MSD	19110823B043	08/26/2011	12:56	5.08	13.32
03	E5KQ7	19110823B044	08/26/2011	13:16	5.08	13.33
04	E5KQ8	19110823B045	08/26/2011	13:37	5.08	13.33
05	E5KQ9	19110823B046	08/26/2011	13:57	5.07	13.32
06	E5KR0	19110823B047	08/26/2011	14:17	5.07	13.32
07	E5KR1	19110823B048	08/26/2011	14:37	5.08	13.32
08	E5KR2	19110823B049	08/26/2011	14:58	5.08	13.32
09	E5KR3	19110823B050	08/26/2011	15:18	5.08	13.32
10	ZZZZZ		08/26/2011	15:39		
11	ZZZZZ		08/26/2011	15:59		
12	ZZZZZ		08/26/2011	16:19		
13	ZZZZZ		08/26/2011	16:40		
14	ZZZZZ		08/26/2011	17:00		
15	ZZZZZ		08/26/2011	17:20		
16	ZZZZZ		08/26/2011	17:40		
17	ZZZZZ		08/26/2011	18:01		
18	ZZZZZ		08/26/2011	18:21		
19	ZZZZZ		08/26/2011	18:41		
20	ZZZZZ		08/26/2011	19:02		
21	ZZZZZ		08/26/2011	19:22		
22	ZZZZZ		08/26/2011	19:42		
23	ZZZZZ		08/26/2011	20:02		
24	ZZZZZ		08/26/2011	20:23		
25	AIBLK42	19110823B066	08/26/2011	20:43	5.07	13.31
26	AR1660342	19110823B067	08/26/2011	21:03	5.07	13.31
27	AR1254342	19110823B069	08/26/2011	21:44	5.07	13.31
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.

E5KQ6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A041,19110823B041

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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) Y

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.

E5KQ6MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A042

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	180	
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	61.	P
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.

E5KQ6MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823B042

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	180	
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	210	P
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.

E5KQ6MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A043

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	160	
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	100	P
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.

E5KQ6MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823B043

% Moisture: 23. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	180	
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	190	P
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.

E5KQ7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A044,19110823B044

% Moisture: 31. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	48.	U
11104-28-2	Aroclor-1221	48.	U
11141-16-5	Aroclor-1232	48.	U
53469-21-9	Aroclor-1242	48.	U
12672-29-6	Aroclor-1248	48.	U
11097-69-1	Aroclor-1254	48.	U
11096-82-5	Aroclor-1260	48.	U
37324-23-5	Aroclor-1262	48.	U
11100-14-4	Aroclor-1268	48.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 19110823A045,19110823B045

% Moisture: 55. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	72.	U
11104-28-2	Aroclor-1221	72.	U
11141-16-5	Aroclor-1232	72.	U
53469-21-9	Aroclor-1242	72.	U
12672-29-6	Aroclor-1248	72.	U
11097-69-1	Aroclor-1254	72.	U
11096-82-5	Aroclor-1260	72.	U
37324-23-5	Aroclor-1262	72.	U
11100-14-4	Aroclor-1268	72.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KQ9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168006

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 19110823A046,19110823B046

% Moisture: 41. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	56.	U
11104-28-2	Aroclor-1221	56.	U
11141-16-5	Aroclor-1232	56.	U
53469-21-9	Aroclor-1242	56.	U
12672-29-6	Aroclor-1248	56.	U
11097-69-1	Aroclor-1254	56.	U
11096-82-5	Aroclor-1260	56.	U
37324-23-5	Aroclor-1262	56.	U
11100-14-4	Aroclor-1268	56.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168007

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A047,19110823B047

% Moisture: 27. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	45.	U
11104-28-2	Aroclor-1221	45.	U
11141-16-5	Aroclor-1232	45.	U
53469-21-9	Aroclor-1242	45.	U
12672-29-6	Aroclor-1248	45.	U
11097-69-1	Aroclor-1254	45.	U
11096-82-5	Aroclor-1260	45.	U
37324-23-5	Aroclor-1262	45.	U
11100-14-4	Aroclor-1268	45.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 19110823A048,19110823B048

% Moisture: 32. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	49.	U
11104-28-2	Aroclor-1221	49.	U
11141-16-5	Aroclor-1232	49.	U
53469-21-9	Aroclor-1242	49.	U
12672-29-6	Aroclor-1248	49.	U
11097-69-1	Aroclor-1254	49.	U
11096-82-5	Aroclor-1260	49.	U
37324-23-5	Aroclor-1262	49.	U
11100-14-4	Aroclor-1268	49.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168009

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A049,19110823B049

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

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.

E5KR3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122168010

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A050,19110823B050

% Moisture: 30. Decanted: (Y/N) N Date Received: 08/09/2011

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	47.	U
11104-28-2	Aroclor-1221	47.	U
11141-16-5	Aroclor-1232	47.	U
53469-21-9	Aroclor-1242	47.	U
12672-29-6	Aroclor-1248	47.	U
11097-69-1	Aroclor-1254	47.	U
11096-82-5	Aroclor-1260	47.	U
37324-23-5	Aroclor-1262	47.	U
11100-14-4	Aroclor-1268	47.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 234598

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A031,19110823B031

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) Y

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 234612

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A034

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	31.	J
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	30.	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.

ALCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KQ6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 234612

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823B034

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/10/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) Y

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

Controlled Document

ESAT5.315.00038
ACA
9-8-11

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 9/2/11

SUBJECT: Review of Data
Received for review on 8/30/11

FROM: Timothy Prendiville, Supervisor, Chief (SR-6J)
Superfund Contract Management Section

TO: Data User: OEPA
Email address: victoria.sigler@epa.state.oh.us

LEVEL 3 DATA VALIDATION

We have reviewed the data for the following case:

SITE NAME: Clyde Dump (OH)

CASE NUMBER: 41647 **SDG NUMBER:** ME5KQ6

Number and Type of Samples: 8 soils

Sample Numbers: ME5KQ6-Q9, R0-R3

Laboratory: Chemtech **Hrs. for Review:** 10.5 + 2.5 QV 9/7/11

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) soil samples, numbered ME5KQ6-Q9, R0-R3, were collected on August 8, 2011. The lab received the samples on August 9, 2011 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ISM01.2 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.

No handwritten preparation logs were included. It is unclear whether the actual weight used for preparation of the samples was correct as listed.

The conversion calculation formula provided in the laboratory case narrative does not include unit values for several of the variables or multipliers within the equation. Reported sample results are calculated correctly.

1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

No defects were found for the calibrations.

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 "J+".

Barium
ME5KQ6, ME5KR0, ME5KR3

Cadmium
ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

Cobalt
ME5KQ6, ME5KR0, ME5KR2, ME5KR3

Potassium
ME5KQ6, ME5KQ7, ME5KR0, ME5KR2, ME5KR3

Selenium
ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR2

Thallium
ME5KR2

Vanadium
ME5KR3

Cyanide
ME5KQ7, ME5KQ8, ME5KQ9, ME5KR1, ME5KR2, ME5KR3

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. The required post spike was performed and results were less than or equal to 125%.

Hits are qualified "J"; non-detects are not qualified.

Zinc

ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

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".

Manganese

ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30%) 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".

Lead

ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

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

ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

The following inorganic samples are associated with duplicate results which did not meet absolute difference (AD) primary criteria. Region 5 uses 2xCRQL difference criteria for soil samples.

Hits are qualified "J" and non-detects are qualified "UJ".

Arsenic

ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

Chromium
ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

No samples were identified as field duplicates.

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".

Chromium
ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

Nickel
ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

Vanadium
ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

No defects were found for the ICS samples.

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
ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

Beryllium
ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

Mercury
ME5KQ7, ME5KQ8, ME5KR0, ME5KR1, ME5KR2, ME5KR3

Silver
ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

Sodium

ME5KQ6, ME5KQ7, ME5KQ8, ME5KQ9, ME5KR0, ME5KR1, ME5KR2, ME5KR3

All data, except those qualified above, are acceptable.

EXES ISM01.2 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.

Sample Summary Report

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KQ6	Lab Code:	CHEM
Sample Number:	ME5KQ6	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SE-1	pH:	2	Sample Date:	08082011	Sample Time:	15:00:00
% Moisture :				% Solids :	79.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.13	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ6	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids : 79.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.63	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ6	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids : 79.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	3050	mg/kg	1			Yes	S2BVE
Antimony	0.52	mg/kg	1	J	J	Yes	S2BVE
Arsenic	7.8	mg/kg	1		J	Yes	S2BVE
Barium	25.2	mg/kg	1	J	U	Yes	S2BVE
Beryllium	0.35	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.63	mg/kg	1	J	U	Yes	S2BVE
Calcium	20900	mg/kg	1			Yes	S2BVE
Chromium	14.0	mg/kg	1		J	Yes	S2BVE
Cobalt	6.3	mg/kg	1	J	U	Yes	S2BVE
Copper	12.1	mg/kg	1			Yes	S2BVE
Iron	11500	mg/kg	1			Yes	S2BVE
Lead	15.2	mg/kg	1		J	Yes	S2BVE
Magnesium	5180	mg/kg	1			Yes	S2BVE
Manganese	200	mg/kg	1		J-	Yes	S2BVE
Nickel	16.4	mg/kg	1		J	Yes	S2BVE
Potassium	629	mg/kg	1	J	U	Yes	S2BVE
Selenium	4.4	mg/kg	1	J	U	Yes	S2BVE
Silver	0.16	mg/kg	1	J	J	Yes	S2BVE
Sodium	431	mg/kg	1	J	J	Yes	S2BVE
Thallium	3.1	mg/kg	1	U	U	Yes	S2BVE
Vanadium	7.2	mg/kg	1		J	Yes	S2BVE
Zinc	50.4	mg/kg	1		J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KQ6	Lab Code:	CHEM
Sample Number:	ME5KQ6D	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	2	Sample Date:	08082011	Sample Time:	03:00:00
% Moisture :				% Solids :	79.4		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.13	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ6D	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids : 79.4	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	2470	mg/kg	1			Yes	S2BVE
Antimony	0.35	mg/kg	1	J	J	Yes	S2BVE
Arsenic	5.0	mg/kg	1			Yes	S2BVE
Barium	12.9	mg/kg	1	J	J	Yes	S2BVE
Beryllium	0.27	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.63	mg/kg	1	J	U	Yes	S2BVE
Calcium	21800	mg/kg	1			Yes	S2BVE
Chromium	4.2	mg/kg	1			Yes	S2BVE
Cobalt	6.3	mg/kg	1	J	U	Yes	S2BVE
Copper	7.6	mg/kg	1			Yes	S2BVE
Iron	9140	mg/kg	1			Yes	S2BVE
Lead	9.7	mg/kg	1			Yes	S2BVE
Magnesium	5170	mg/kg	1			Yes	S2BVE
Manganese	164	mg/kg	1			Yes	S2BVE
Nickel	8.4	mg/kg	1			Yes	S2BVE
Potassium	629	mg/kg	1	J	U	Yes	S2BVE
Selenium	4.4	mg/kg	1	U	U	Yes	S2BVE
Silver	1.3	mg/kg	1	J	U	Yes	S2BVE
Sodium	629	mg/kg	1	J	U	Yes	S2BVE
Thallium	3.1	mg/kg	1	U	U	Yes	S2BVE
Vanadium	6.3	mg/kg	1	J	U	Yes	S2BVE
Zinc	39.6	mg/kg	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ6D	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids : 79.4	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.63	mg/kg	1	J	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ6S	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids : 79.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	22.9	mg/kg	1			Yes	S2BVE
Arsenic	15.7	mg/kg	1			Yes	S2BVE
Barium	498	mg/kg	1			Yes	S2BVE
Beryllium	12.4	mg/kg	1			Yes	S2BVE
Cadmium	11.8	mg/kg	1			Yes	S2BVE
Chromium	51.6	mg/kg	1			Yes	S2BVE
Cobalt	119	mg/kg	1			Yes	S2BVE
Copper	68.8	mg/kg	1			Yes	S2BVE
Lead	14.1	mg/kg	1			Yes	S2BVE
Manganese	290	mg/kg	1			Yes	S2BVE
Nickel	123	mg/kg	1			Yes	S2BVE
Selenium	11.3	mg/kg	1			Yes	S2BVE
Silver	11.4	mg/kg	1			Yes	S2BVE
Thallium	11.9	mg/kg	1			Yes	S2BVE
Vanadium	128	mg/kg	1			Yes	S2BVE
Zinc	321	mg/kg	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ6S	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-1	pH: 2	Sample Date: 08082011	Sample Time: 15:00:00
% Moisture :		% Solids : 79.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	6.3	mg/kg	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ6S	Method: Hg	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 2	Sample Date: 08082011	Sample Time: 03:00:00
% Moisture :		% Solids : 79.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.64	mg/kg	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ7	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-2	pH: 2	Sample Date: 08082011	Sample Time: 11:15:00
% Moisture :		% Solids : 73	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.68	mg/kg	1	J	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ7	Method: Hg	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-2	pH: 2	Sample Date: 08082011	Sample Time: 11:15:00
% Moisture :		% Solids : 73	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.023	mg/kg	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ7	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-2	pH: 2	Sample Date: 08082011	Sample Time: 11:15:00
% Moisture :		% Solids : 73	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	3690	mg/kg	1			Yes	S2BVE
Antimony	0.88	mg/kg	1	J	J	Yes	S2BVE
Arsenic	3.6	mg/kg	1		J	Yes	S2BVE
Barium	37.7	mg/kg	1			Yes	S2BVE
Beryllium	0.33	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.60	mg/kg	1	J	U	Yes	S2BVE
Calcium	13600	mg/kg	1			Yes	S2BVE
Chromium	7.0	mg/kg	1		J	Yes	S2BVE
Cobalt	10.1	mg/kg	1			Yes	S2BVE
Copper	18.9	mg/kg	1			Yes	S2BVE
Iron	8820	mg/kg	1			Yes	S2BVE
Lead	19.3	mg/kg	1		J	Yes	S2BVE
Magnesium	3790	mg/kg	1			Yes	S2BVE
Manganese	202	mg/kg	1		J-	Yes	S2BVE
Nickel	12.5	mg/kg	1		J	Yes	S2BVE
Potassium	596	mg/kg	1	J	U	Yes	S2BVE
Selenium	4.2	mg/kg	1	J	U	Yes	S2BVE
Silver	0.14	mg/kg	1	J	J	Yes	S2BVE
Sodium	452	mg/kg	1	J	J	Yes	S2BVE
Thallium	3.0	mg/kg	1	U	U	Yes	S2BVE
Vanadium	6.9	mg/kg	1		J	Yes	S2BVE
Zinc	112	mg/kg	1		J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ8	Method: Hg	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-3	pH: 2	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture :		% Solids : 46.9	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.052	mg/kg	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ8	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-3	pH: 2	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture :		% Solids : 46.9	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	1.1	mg/kg	1	J	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ8	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-3	pH: 2	Sample Date: 08082011	Sample Time: 13:00:00
% Moisture :		% Solids : 46.9	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	7220	mg/kg	1			Yes	S2BVE
Antimony	1.4	mg/kg	1	J	J	Yes	S2BVE
Arsenic	8.0	mg/kg	1		J	Yes	S2BVE
Barium	64.7	mg/kg	1			Yes	S2BVE
Beryllium	0.58	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.80	mg/kg	1	J	U	Yes	S2BVE
Calcium	25200	mg/kg	1			Yes	S2BVE
Chromium	16.1	mg/kg	1		J	Yes	S2BVE
Cobalt	15.4	mg/kg	1			Yes	S2BVE
Copper	33.9	mg/kg	1			Yes	S2BVE
Iron	16500	mg/kg	1			Yes	S2BVE
Lead	26.3	mg/kg	1		J	Yes	S2BVE
Magnesium	7530	mg/kg	1			Yes	S2BVE
Manganese	426	mg/kg	1		J-	Yes	S2BVE
Nickel	21.8	mg/kg	1		J	Yes	S2BVE
Potassium	1110	mg/kg	1			Yes	S2BVE
Selenium	5.6	mg/kg	1	J	U	Yes	S2BVE
Silver	0.24	mg/kg	1	J	J	Yes	S2BVE
Sodium	665	mg/kg	1	J	J	Yes	S2BVE
Thallium	4.0	mg/kg	1	U	U	Yes	S2BVE
Vanadium	13.8	mg/kg	1		J	Yes	S2BVE
Zinc	177	mg/kg	1		J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KQ6	Lab Code:	CHEM
Sample Number:	ME5KQ9	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SE-4	pH:	2	Sample Date:	08082011	Sample Time:	10:30:00
% Moisture :				% Solids :	68		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.14	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ9	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-4	pH: 2	Sample Date: 08082011	Sample Time: 10:30:00
% Moisture :		% Solids : 68	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.74	mg/kg	1	J	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KQ9	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-4	pH: 2	Sample Date: 08082011	Sample Time: 10:30:00
% Moisture :		% Solids : 68	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	3830	mg/kg	1			Yes	S2BVE
Antimony	1.1	mg/kg	1	J	J	Yes	S2BVE
Arsenic	4.2	mg/kg	1		J	Yes	S2BVE
Barium	33.0	mg/kg	1			Yes	S2BVE
Beryllium	0.34	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.57	mg/kg	1	J	U	Yes	S2BVE
Calcium	17400	mg/kg	1			Yes	S2BVE
Chromium	7.5	mg/kg	1		J	Yes	S2BVE
Cobalt	9.6	mg/kg	1			Yes	S2BVE
Copper	20.2	mg/kg	1			Yes	S2BVE
Iron	10100	mg/kg	1			Yes	S2BVE
Lead	16.7	mg/kg	1		J	Yes	S2BVE
Magnesium	4520	mg/kg	1			Yes	S2BVE
Manganese	199	mg/kg	1		J-	Yes	S2BVE
Nickel	14.3	mg/kg	1		J	Yes	S2BVE
Potassium	608	mg/kg	1			Yes	S2BVE
Selenium	4.0	mg/kg	1	J	U	Yes	S2BVE
Silver	0.14	mg/kg	1	J	J	Yes	S2BVE
Sodium	507	mg/kg	1	J	J	Yes	S2BVE
Thallium	2.8	mg/kg	1	U	U	Yes	S2BVE
Vanadium	8.0	mg/kg	1		J	Yes	S2BVE
Zinc	109	mg/kg	1		J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KR0	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-5	pH: 2	Sample Date: 08082011	Sample Time: 10:40:00
% Moisture :		% Solids : 69.9	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	3210	mg/kg	1			Yes	S2BVE
Antimony	0.70	mg/kg	1	J	J	Yes	S2BVE
Arsenic	3.4	mg/kg	1		J	Yes	S2BVE
Barium	26.7	mg/kg	1	J	U	Yes	S2BVE
Beryllium	0.28	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.67	mg/kg	1	J	U	Yes	S2BVE
Calcium	20300	mg/kg	1			Yes	S2BVE
Chromium	6.9	mg/kg	1		J	Yes	S2BVE
Cobalt	6.7	mg/kg	1	J	U	Yes	S2BVE
Copper	15.7	mg/kg	1			Yes	S2BVE
Iron	9240	mg/kg	1			Yes	S2BVE
Lead	9.8	mg/kg	1		J	Yes	S2BVE
Magnesium	4890	mg/kg	1			Yes	S2BVE
Manganese	238	mg/kg	1		J-	Yes	S2BVE
Nickel	10.3	mg/kg	1		J	Yes	S2BVE
Potassium	669	mg/kg	1	J	U	Yes	S2BVE
Selenium	4.7	mg/kg	1	J	U	Yes	S2BVE
Silver	0.11	mg/kg	1	J	J	Yes	S2BVE
Sodium	352	mg/kg	1	J	J	Yes	S2BVE
Thallium	3.3	mg/kg	1	U	U	Yes	S2BVE
Vanadium	7.2	mg/kg	1		J	Yes	S2BVE
Zinc	75.9	mg/kg	1		J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KR0	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-5	pH: 2	Sample Date: 08082011	Sample Time: 10:40:00
% Moisture :		% Solids : 69.9	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.72	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM

Sample Number:	ME5KR0	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SE-5	pH:	2	Sample Date:	08082011	Sample Time:	10:40:00
% Moisture :				% Solids :	69.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.024	mg/kg	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KQ6	Lab Code:	CHEM
Sample Number:	ME5KR1	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SE-6	pH:	2	Sample Date:	08082011	Sample Time:	12:56:00
% Moisture :				% Solids :	74.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.042	mg/kg	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KR1	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-6	pH: 2	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture :		% Solids : 74.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	3430	mg/kg	1			Yes	S2BVE
Antimony	0.63	mg/kg	1	J	J	Yes	S2BVE
Arsenic	3.5	mg/kg	1		J	Yes	S2BVE
Barium	40.3	mg/kg	1			Yes	S2BVE
Beryllium	0.28	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.48	mg/kg	1	J	U	Yes	S2BVE
Calcium	17900	mg/kg	1			Yes	S2BVE
Chromium	7.4	mg/kg	1		J	Yes	S2BVE
Cobalt	6.6	mg/kg	1			Yes	S2BVE
Copper	12.5	mg/kg	1			Yes	S2BVE
Iron	9240	mg/kg	1			Yes	S2BVE
Lead	11.0	mg/kg	1		J	Yes	S2BVE
Magnesium	6560	mg/kg	1			Yes	S2BVE
Manganese	154	mg/kg	1		J-	Yes	S2BVE
Nickel	13.0	mg/kg	1		J	Yes	S2BVE
Potassium	1210	mg/kg	1			Yes	S2BVE
Selenium	3.3	mg/kg	1	U	U	Yes	S2BVE
Silver	0.10	mg/kg	1	J	J	Yes	S2BVE
Sodium	302	mg/kg	1	J	J	Yes	S2BVE
Thallium	2.4	mg/kg	1	U	U	Yes	S2BVE
Vanadium	10.6	mg/kg	1		J	Yes	S2BVE
Zinc	73.7	mg/kg	1		J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KR1	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-6	pH: 2	Sample Date: 08082011	Sample Time: 12:56:00
% Moisture :		% Solids : 74.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.67	mg/kg	1	J	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KR2	Method: Hg	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-7	pH: 2	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture :		% Solids : 75.2	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.018	mg/kg	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KQ6	Lab Code:	CHEM
Sample Number:	ME5KR2	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SE-7	pH:	2	Sample Date:	08082011	Sample Time:	14:05:00
% Moisture :				% Solids :	75.2		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.66	mg/kg	1	J	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KR2	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-7	pH: 2	Sample Date: 08082011	Sample Time: 14:05:00
% Moisture :		% Solids : 75.2	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	2640	mg/kg	1			Yes	S2BVE
Antimony	0.60	mg/kg	1	J	J	Yes	S2BVE
Arsenic	4.9	mg/kg	1		J	Yes	S2BVE
Barium	22.0	mg/kg	1			Yes	S2BVE
Beryllium	0.32	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.54	mg/kg	1	J	U	Yes	S2BVE
Calcium	31800	mg/kg	1			Yes	S2BVE
Chromium	9.6	mg/kg	1		J	Yes	S2BVE
Cobalt	5.4	mg/kg	1	J	U	Yes	S2BVE
Copper	14.4	mg/kg	1			Yes	S2BVE
Iron	11000	mg/kg	1			Yes	S2BVE
Lead	113	mg/kg	1		J	Yes	S2BVE
Magnesium	7410	mg/kg	1			Yes	S2BVE
Manganese	216	mg/kg	1		J-	Yes	S2BVE
Nickel	11.4	mg/kg	1		J	Yes	S2BVE
Potassium	536	mg/kg	1	J	U	Yes	S2BVE
Selenium	3.8	mg/kg	1	J	U	Yes	S2BVE
Silver	0.14	mg/kg	1	J	J	Yes	S2BVE
Sodium	354	mg/kg	1	J	J	Yes	S2BVE
Thallium	2.7	mg/kg	1	J	U	Yes	S2BVE
Vanadium	6.4	mg/kg	1		J	Yes	S2BVE
Zinc	97.3	mg/kg	1		J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KR3	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-8	pH: 2	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture :		% Solids : 75.6	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	2270	mg/kg	1			Yes	S2BVE
Antimony	0.60	mg/kg	1	J	J	Yes	S2BVE
Arsenic	2.8	mg/kg	1		J	Yes	S2BVE
Barium	25.4	mg/kg	1	J	U	Yes	S2BVE
Beryllium	0.21	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.64	mg/kg	1	J	U	Yes	S2BVE
Calcium	16800	mg/kg	1			Yes	S2BVE
Chromium	7.1	mg/kg	1		J	Yes	S2BVE
Cobalt	6.4	mg/kg	1	J	U	Yes	S2BVE
Copper	11.9	mg/kg	1			Yes	S2BVE
Iron	7140	mg/kg	1			Yes	S2BVE
Lead	14.8	mg/kg	1		J	Yes	S2BVE
Magnesium	4370	mg/kg	1			Yes	S2BVE
Manganese	144	mg/kg	1		J-	Yes	S2BVE
Nickel	9.0	mg/kg	1		J	Yes	S2BVE
Potassium	636	mg/kg	1	J	U	Yes	S2BVE
Selenium	4.5	mg/kg	1	U	U	Yes	S2BVE
Silver	0.094	mg/kg	1	J	J	Yes	S2BVE
Sodium	345	mg/kg	1	J	J	Yes	S2BVE
Thallium	3.2	mg/kg	1	U	U	Yes	S2BVE
Vanadium	6.4	mg/kg	1	J	UJ	Yes	S2BVE
Zinc	68.6	mg/kg	1		J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM

Sample Number:	ME5KR3	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SE-8	pH:	2	Sample Date:	08082011	Sample Time:	14:40:00
% Moisture :				% Solids :	75.6		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.66	mg/kg	1	J	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KQ6	Lab Code: CHEM
Sample Number: ME5KR3	Method: Hg	Matrix: Soil	MA Number: DEFAULT
Sample Location: SE-8	pH: 2	Sample Date: 08082011	Sample Time: 14:40:00
% Moisture :		% Solids : 75.6	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.016	mg/kg	1	J	J	Yes	S2BVE

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No: SDG# ME5KQ6
R

Region:	5	Date Shipped:	8/8/2011
Project Code:	TFA-102	Carrier Name:	FedEx
Account Code:		Airbill:	866389086541
CERCLIS ID:	OHD980905251	Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900
Spill ID:	ZZ		
Site Name/State:	Clyde Dump/OH		
Project Leader:	Victoria Sigler		
Action:	Screening Site Investigation		
Sampling Co:	Ohio EPA		

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	8/8/11 1730		8-9-11 905
2			
3			
4			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
ME5KQ6	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001058 (Ice Only) (1)	SE-1	S: 8/8/2011 15:00	E5KQ6	Copy
ME5KQ7	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001062 (Ice Only) (1)	SE-2	S: 8/8/2011 11:15	E5KQ7	
ME5KQ8	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001063 (Ice Only) (1)	SE-3	S: 8/8/2011 13:00	E5KQ8	
ME5KQ9	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001067 (Ice Only) (1)	SE-4	S: 8/8/2011 10:30	E5KQ9	--
ME5KR0	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001071 (Ice Only) (1)	SE-5	S: 8/8/2011 10:40	E5KR0	Field Duplicate
ME5KR1	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001075 (Ice Only) (1)	SE-6	S: 8/8/2011 12:56	E5KR1	--
ME5KR2	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001079 (Ice Only) (1)	SE-7	S: 8/8/2011 14:05	E5KR2	--
ME5KR3	Soil/Sediment/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001083 (Ice Only) (1)	SE-8	S: 8/8/2011 14:40	E5KR3	--
ME5KS7	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001259 (HNO3), 5C-001260 (NaOH) (2)	SW-1	S: 8/8/2011 15:00	E5KS7	--
ME5KS8	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001270 (HNO3), 5C-001271 (NaOH) (2)	SW-2	S: 8/8/2011 11:00	E5KS8	--
ME5KS9	Surface Water/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-001281 (HNO3), 5C-001282 (NaOH) (2)	SW-3	S: 8/8/2011 13:00	E5KS9	--

Original Documents are included in CSF
Signature: S Neale
Date: 8/9/11

(EPA SAMPLES: ME5KS7, ME5KS8 AND ME5KS9 are in SDG# ME5KS7)

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	ME5KQ6, ME5KS7		29017-29018
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? ✓

CN water = CLP Cyanide water, TM/CN/hg s = CLP TAL TM/ Hg/CN soil, TM/Hgwater = CLP TAL Total Metals/Hg water

Temp: 4°C

TR Number: 5-131260284-080811-0007

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # ME5KQ6
CASE # 41647
CONTRACT # EPW09038
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT # C3300

A. Number of Samples and Date of Receipt

08 Soil Samples were delivered to the laboratory intact on 08/09/11.

B. Parameters

Test requested for METALS CLP FULL == Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc & HG & CN..

C. Cooler Temp

Indicator Bottle: **Presence**/Absence
Cooler: 4°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: The percent solids for sample ME5KQ8 is less than 50% at 46.9%.

Issue 2: The laboratory received Regional copies of the TR/COCs.

E. Corrective Action taken for above:

Resolution 1: Per Region 5, the laboratory note the issue (that the % solids was at 46.9%) in the SDG Narrative and proceed with analysis.

Resolution 2: In accordance with previous direction from Region 5, the laboratory will send the Regional copy of the TR/COC with the Regional data package (i.e., Complete SDG File). The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

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Mountainside, NJ 07092

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ISM01.2

G. Calculation:

Calculation example for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in mg/L or ppm for ICP-AES) X 1000 X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP-Soil Prep.

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10 (1.0 X10 or 0.50 X 20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.5 g to Final Volume 50ml)

Or

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10.2 (1.02 X 10 or 0.51 X 20)
(if 1.02 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.51 g to Final Volume 50ml)

Etc.

Calculation example for Hg Soil Sample:

Conversion of Results from ppb to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in ppb for Hg) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1/ 2 (0.2 X 10)
(if 0.2 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 2.1 (0.21 X 10)
(if 0.21 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Etc.

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Calculation example for CN Soil Sample:

Conversion of Results from Ug/L to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in Ug/L for CN) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in CN Soil Prep = 1/20 (1 X 20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 20.2 (1.01 X 20)
(if 1.01 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Etc.

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Lead, Manganese and Zinc. Duplicate sample did meet requirements except for Aluminum, Arsenic, Chromium, Copper, Iron, Lead, Nickel and Zinc. Serial Dilution did meet requirements except for Arsenic, Chromium, Nickel and Vanadium.

I certify that the 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 hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V Reyes Name: Mildred V. Reyes

Date 8/29/11 Title: Document Control Officer

Metals

COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No: 41647 Mod. Ref. No.: _____ SDG No: ME5KQ6

SOW No.: ISM01.2

EPA Sample No.	Lab Sample ID
ME5KQ6	C3300-01
ME5KQ6D	C3300-02
ME5KQ6S	C3300-03
ME5KQ7	C3300-04
ME5KQ8	C3300-05
ME5KQ9	C3300-06
ME5KR0	C3300-07
ME5KR1	C3300-08
ME5KR2	C3300-09
ME5KR3	C3300-10

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	N/A
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	N/A
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	N/A

The laboratory did not receive any instructions with this SDG to modify the SOW standard laboratory sample preparation procedures (e.g., subsampling). To aid in the determination of data usability with respect to project decisions, any modifications performed are described below.

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 electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mildred V Reyes Name: MILDRED REYES

Date: 8/29/11 Title: DOCUMENT CONTROL OFFICER

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KQ6

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Matrix: SOIL Lab Sample ID: C3300-01

% Solids: 79.5 Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3050		*	P
7440-36-0	Antimony	0.52	J		P
7440-38-2	Arsenic	7.8		*E	P
7440-39-3	Barium	24.1	J		P
7440-41-7	Beryllium	0.35	J		P
7440-43-9	Cadmium	0.18	J		P
7440-70-2	Calcium	20900			P
7440-47-3	Chromium	14.0		*E	P
7440-48-4	Cobalt	4.7	J		P
7440-50-8	Copper	12.1		*	P
7439-89-6	Iron	11500		*	P
7439-92-1	Lead	15.2		N*	P
7439-95-4	Magnesium	5180			P
7439-96-5	Manganese	200		N	P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	16.4		*E	P
7440-09-7	Potassium	445	J		P
7782-49-2	Selenium	0.49	J		P
7440-22-4	Silver	0.16	J		P
7440-23-5	Sodium	431	J		P
7440-28-0	Thallium	3.1	U		P
7440-62-2	Vanadium	7.2		E	P
7440-66-6	Zinc	50.4		N*	P
57-12-5	Cyanide	0.63	U		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KQ7

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Matrix: SOIL Lab Sample ID: C3300-04

% Solids: 73.0 Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3690		*	P
7440-36-0	Antimony	0.88	J		P
7440-38-2	Arsenic	3.6		*E	P
7440-39-3	Barium	37.7			P
7440-41-7	Beryllium	0.33	J		P
7440-43-9	Cadmium	0.45	J		P
7440-70-2	Calcium	13600			P
7440-47-3	Chromium	7.0		*E	P
7440-48-4	Cobalt	10.1			P
7440-50-8	Copper	18.9		*	P
7439-89-6	Iron	8820		*	P
7439-92-1	Lead	19.3		N*	P
7439-95-4	Magnesium	3790			P
7439-96-5	Manganese	202		N	P
7439-97-6	Mercury	0.02	J		CV
7440-02-0	Nickel	12.5		*E	P
7440-09-7	Potassium	571	J		P
7782-49-2	Selenium	0.60	J		P
7440-22-4	Silver	0.14	J		P
7440-23-5	Sodium	452	J		P
7440-28-0	Thallium	3.0	U		P
7440-62-2	Vanadium	6.9		E	P
7440-66-6	Zinc	112		N*	P
57-12-5	Cyanide	0.20	J		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KQ8

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Matrix: SOIL Lab Sample ID: C3300-05

% Solids: 46.9 Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7220		*	P
7440-36-0	Antimony	1.4	J		P
7440-38-2	Arsenic	8.0		*E	P
7440-39-3	Barium	64.7			P
7440-41-7	Beryllium	0.58	J		P
7440-43-9	Cadmium	0.57	J		P
7440-70-2	Calcium	25200			P
7440-47-3	Chromium	16.1		*E	P
7440-48-4	Cobalt	15.4			P
7440-50-8	Copper	33.9		*	P
7439-89-6	Iron	16500		*	P
7439-92-1	Lead	26.3		N*	P
7439-95-4	Magnesium	7530			P
7439-96-5	Manganese	426		N	P
7439-97-6	Mercury	0.05	J		CV
7440-02-0	Nickel	21.8		*E	P
7440-09-7	Potassium	1110			P
7782-49-2	Selenium	0.86	J		P
7440-22-4	Silver	0.24	J		P
7440-23-5	Sodium	665	J		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	13.8		E	P
7440-66-6	Zinc	177		N*	P
57-12-5	Cyanide	0.40	J		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KQ9

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Matrix: SOIL Lab Sample ID: C3300-06

% Solids: 68.0 Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3830		*	P
7440-36-0	Antimony	1.1	J		P
7440-38-2	Arsenic	4.2		*E	P
7440-39-3	Barium	33.0			P
7440-41-7	Beryllium	0.34	J		P
7440-43-9	Cadmium	0.40	J		P
7440-70-2	Calcium	17400			P
7440-47-3	Chromium	7.5		*E	P
7440-48-4	Cobalt	9.6			P
7440-50-8	Copper	20.2		*	P
7439-89-6	Iron	10100		*	P
7439-92-1	Lead	16.7		N*	P
7439-95-4	Magnesium	4520			P
7439-96-5	Manganese	199		N	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	14.3		*E	P
7440-09-7	Potassium	608			P
7782-49-2	Selenium	0.70	J		P
7440-22-4	Silver	0.14	J		P
7440-23-5	Sodium	507	J		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	8.0		E	P
7440-66-6	Zinc	109		N*	P
57-12-5	Cyanide	0.24	J		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR0

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Matrix: SOIL Lab Sample ID: C3300-07

% Solids: 69.9 Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3210		*	P
7440-36-0	Antimony	0.70	J		P
7440-38-2	Arsenic	3.4		*E	P
7440-39-3	Barium	20.3	J		P
7440-41-7	Beryllium	0.28	J		P
7440-43-9	Cadmium	0.27	J		P
7440-70-2	Calcium	20300			P
7440-47-3	Chromium	6.9		*E	P
7440-48-4	Cobalt	6.0	J		P
7440-50-8	Copper	15.7		*	P
7439-89-6	Iron	9240		*	P
7439-92-1	Lead	9.8		N*	P
7439-95-4	Magnesium	4890			P
7439-96-5	Manganese	238		N	P
7439-97-6	Mercury	0.02	J		CV
7440-02-0	Nickel	10.3		*E	P
7440-09-7	Potassium	350	J		P
7782-49-2	Selenium	0.47	J		P
7440-22-4	Silver	0.11	J		P
7440-23-5	Sodium	352	J		P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	7.2		E	P
7440-66-6	Zinc	75.9		N*	P
57-12-5	Cyanide	0.71	U		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR1

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Matrix: SOIL Lab Sample ID: C3300-08

% Solids: 74.5 Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3430		*	P
7440-36-0	Antimony	0.63	J		P
7440-38-2	Arsenic	3.5		*E	P
7440-39-3	Barium	40.3			P
7440-41-7	Beryllium	0.28	J		P
7440-43-9	Cadmium	0.28	J		P
7440-70-2	Calcium	17900			P
7440-47-3	Chromium	7.4		*E	P
7440-48-4	Cobalt	6.6			P
7440-50-8	Copper	12.5		*	P
7439-89-6	Iron	9240		*	P
7439-92-1	Lead	11.0		N*	P
7439-95-4	Magnesium	6560			P
7439-96-5	Manganese	154		N	P
7439-97-6	Mercury	0.04	J		CV
7440-02-0	Nickel	13.0		*E	P
7440-09-7	Potassium	1210			P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.10	J		P
7440-23-5	Sodium	302	J		P
7440-28-0	Thallium	2.4	U		P
7440-62-2	Vanadium	10.6		E	P
7440-66-6	Zinc	73.7		N*	P
57-12-5	Cyanide	0.18	J		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR2

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Matrix: SOIL Lab Sample ID: C3300-09

% Solids: 75.2 Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2640		*	P
7440-36-0	Antimony	0.60	J		P
7440-38-2	Arsenic	4.9		*E	P
7440-39-3	Barium	22.0			P
7440-41-7	Beryllium	0.32	J		P
7440-43-9	Cadmium	0.23	J		P
7440-70-2	Calcium	31800			P
7440-47-3	Chromium	9.6		*E	P
7440-48-4	Cobalt	5.2	J		P
7440-50-8	Copper	14.4		*	P
7439-89-6	Iron	11000		*	P
7439-92-1	Lead	113		N*	P
7439-95-4	Magnesium	7410			P
7439-96-5	Manganese	216		N	P
7439-97-6	Mercury	0.02	J		CV
7440-02-0	Nickel	11.4		*E	P
7440-09-7	Potassium	373	J		P
7782-49-2	Selenium	0.56	J		P
7440-22-4	Silver	0.14	J		P
7440-23-5	Sodium	354	J		P
7440-28-0	Thallium	0.29	J		P
7440-62-2	Vanadium	6.4		E	P
7440-66-6	Zinc	97.3		N*	P
57-12-5	Cyanide	0.21	J		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR3

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Matrix: SOIL Lab Sample ID: C3300-10

% Solids: 75.6 Date Received: 08/09/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2270		*	P
7440-36-0	Antimony	0.60	J		P
7440-38-2	Arsenic	2.8		*E	P
7440-39-3	Barium	21.9	J		P
7440-41-7	Beryllium	0.21	J		P
7440-43-9	Cadmium	0.23	J		P
7440-70-2	Calcium	16800			P
7440-47-3	Chromium	7.1		*E	P
7440-48-4	Cobalt	5.2	J		P
7440-50-8	Copper	11.9		*	P
7439-89-6	Iron	7140		*	P
7439-92-1	Lead	14.8		N*	P
7439-95-4	Magnesium	4370			P
7439-96-5	Manganese	144		N	P
7439-97-6	Mercury	0.02	J		CV
7440-02-0	Nickel	9.0		*E	P
7440-09-7	Potassium	328	J		P
7782-49-2	Selenium	4.5	U		P
7440-22-4	Silver	0.09	J		P
7440-23-5	Sodium	345	J		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	5.9	J	E	P
7440-66-6	Zinc	68.6		N*	P
57-12-5	Cyanide	0.26	J		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Preparation Blank Matrix (soil/water/wipe/filter): SOIL

Preparation Blank Concentration Units (ug/L, ug, 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	31.925	J	200.000	U	20.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Beryllium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Cadmium	5.000	U	5.000	U	0.332	J	5.000	U	0.500	U	P
Calcium	-16.977	J	-17.401	J	31.764	J	5000.000	U	500.000	U	P
Chromium	10.000	U	1.335	J	2.497	J	10.000	U	1.000	U	P
Cobalt	50.000	U	50.000	U	0.409	J	50.000	U	5.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Iron	100.000	U	13.287	J	38.429	J	20.246	J	10.000	U	P
Lead	10.000	U	10.000	U	4.058	J	10.000	U	1.000	U	P
Magnesium	5000.000	U	5000.000	U	49.350	J	5000.000	U	500.000	U	P
Manganese	15.000	U	15.000	U	1.894	J	15.000	U	1.500	U	P
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.100	U	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	4.000	U	P
Potassium	5000.000	U	5000.000	U	139.340	J	5000.000	U	8.508	J	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	3.500	U	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	3.436	J	6.234	J	4.085	J	2.500	U	P
Vanadium	0.453	J	0.350	J	50.000	U	-3.208	J	-0.076	J	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Cyanide	10.0000	U	10.0000	U	10.0000	U	3.4970	J	0.500	U	AS

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or 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
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			200.000	U	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			5.000	U	5.000	U	5.000	U			P
Calcium			5000.000	U	5000.000	U	5000.000	U			P
Chromium			10.000	U	10.000	U	-1.079	J			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U			P
Iron			11.085	J	18.898	J	16.692	J			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
Mercury			0.20	U							CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			186.186	J	190.900	J	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			198.897	J	152.636	J	5000.000	U			P
Thallium			7.478	J	4.783	J	5.884	J			P
Vanadium			50.000	U	-2.226	J	-0.867	J			P
Zinc			60.000	U	60.000	U	60.000	U			P

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): _____

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum			200.000	U	200.000	U	200.000	U			P
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			200.000	U	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U					P
Cadmium			5.000	U	5.000	U	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			100.000	U	17.487	J	12.227	J			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	-0.416	J			P
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			195.463	J	187.253	J	193.860	J			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			0.691	J	10.000	U	10.000	U			P
Sodium			325.790	J	260.073	J	165.070	J			P
Thallium			25.000	U	25.000	U	5.394	J			P
Vanadium			-0.735	J	-1.116	J	-0.444	J			P
Zinc			60.000	U	60.000	U	60.000	U			P

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): _____

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Antimony			60.000	U							P
Arsenic			10.000	U							P
Barium			200.000	U							P
Calcium			5000.000	U							P
Chromium			10.000	U							P
Cobalt			50.000	U							P
Copper			25.000	U							P
Iron			30.070	J							P
Lead			10.000	U							P
Magnesium			5000.000	U							P
Manganese			15.000	U							P
Potassium			5000.000	U							P
Selenium			35.000	U							P
Silver			-0.880	J							P
Sodium			-176.131	J							P
Thallium			3.174	J							P
Vanadium			-0.409	J							P
Zinc			60.000	U							P

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW0903B

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): _____

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Zinc	60.000	U	60.000	U	60.000	U					P

Metals

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME5KQ6S

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Matrix: SOIL

% Solids for Sample: 79.5

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
Antimony	75 - 125	22.9095		0.5233	J	25.16	89		P
Arsenic	75 - 125	15.6834		7.7837		10.06	79		P
Barium	75 - 125	498.4466		24.1478	J	503.14	94		P
Beryllium	75 - 125	12.3720		0.3518	J	12.58	96		P
Cadmium	75 - 125	11.8077		0.1755	J	12.58	92		P
Chromium	75 - 125	51.5601		13.9970		50.31	75		P
Cobalt	75 - 125	118.5501		4.6770	J	125.79	91		P
Copper	75 - 125	68.7606		12.1013		62.89	90		P
Lead	75 - 125	14.1298		15.2060		5.03	-21	N	P
Manganese	75 - 125	290.2927		200.4712		125.79	71	N	P
Mercury	75 - 125	0.6440		0.1258	U	0.75	86		CV
Nickel	75 - 125	122.9576		16.3510		125.79	85		P
Selenium	75 - 125	11.2832		0.4879	J	12.58	86		P
Silver	75 - 125	11.4041		0.1623	J	12.58	89		P
Thallium	75 - 125	11.9390		3.1447	U	12.58	95		P
Vanadium	75 - 125	127.5316		7.2141		125.79	96		P
Zinc	75 - 125	321.4767		50.4159		125.79	215	N	P
Cyanide	75 - 125	6.2561		0.6278	U	6.278	100		AS

Comments:

Metals

5B-IN

POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME5KQ6A

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Matrix: SOIL

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
Lead		50.48		15.21		31.4	112.3		P
Manganese		197.18		200.47		452.8	-0.7		P
Zinc		132.70		50.42		100.6	81.8		P

Comments:

Metals

6-IN

DUPLICATES

EPA SAMPLE NO.

ME5KQ6D

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Matrix: SOIL

% Solids for Sample: 79.5

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		3047.3920		2468.8300		21	*	P
Antimony		0.5233	J	0.3540	J	39		P
Arsenic	1.2579	7.7837		5.0324		43	*	P
Barium		24.1478	J	12.9123	J	61		P
Beryllium		0.3518	J	0.2734	J	25		P
Cadmium		0.1755	J	0.1318	J	28		P
Calcium		20926.6700		21757.1500		4		P
Chromium	1.2579	13.9970		4.2368		107	*	P
Cobalt		4.6770	J	3.4950	J	29		P
Copper	3.1447	12.1013		7.5890		46	*	P
Iron		11492.4700		9137.8020		23	*	P
Lead		15.2060		9.6860		44	*	P
Magnesium		5183.2740		5173.6310		0		P
Manganese		200.4712		164.2883		20		P
Mercury		0.1258	U	0.1258	U			CV
Nickel	5.0314	16.3510		8.4154		64	*	P
Potassium		444.8266	J	342.4303	J	26		P
Selenium		0.4879	J	4.4025	U	0		P
Silver		0.1623	J	0.1344	J	19		P
Sodium		431.1007	J	283.7985	J	41		P
Thallium		3.1447	U	3.1447	U			P
Vanadium	6.2893	7.2141		5.6458	J	24		P
Zinc		50.4159		39.5982		24	*	P
Cyanide		0.6279	U	0.2000	J	0		AS

8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME5KQ6L

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: Sdg No.: ME5KQ6

Matrix: SOIL

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	3047.39		2957.49		3		P
Antimony	0.523	J	1.046	J	100.0		P
Arsenic	7.784		8.601		10.5	E	P
Barium	24.15	J	22.81	J	6		P
Beryllium	0.35	J	0.40	J	14		P
Cadmium	0.18	J	0.19	J	6		P
Calcium	20926.67		20321.25		3		P
Chromium	14.00		49.86		256	E	P
Cobalt	4.68	J	4.70	J	0		P
Copper	12.10		12.63	J	4		P
Iron	11492.47		11614.32		1		P
Lead	15.21		16.03		5		P
Magnesium	5183.27		5016.50		3		P
Manganese	200.47		201.28		0		P
Nickel	16.35		35.80		119	E	P
Potassium	444.83	J	464.01	J	4		P
Selenium	0.49	J	22.01	U	100		P
Silver	0.16	J	6.29	U	100		P
Sodium	431.10	J	531.11	J	23		P
Thallium	3.14	U	15.72	U			P
Vanadium	7.21		5.87	J	19	E	P
Zinc	50.42		49.94		1		P

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Instrument Type: AS Instrument ID: CN Date: 01/04/2011

Preparation Method: Midi-distillation

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Cyanide	578.00	2.900

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Instrument Type: AS Instrument ID: CN Date: 01/04/2011

Preparation Method: Midi-distillation

Concentration Units (ug/L, mg/kg, or ug): MG/KG

Analyte	Wavelength/Mass	MDL
Cyanide	578.00	0.10

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Instrument Type: CV Instrument ID: CV2 Date: 01/14/2011

Preparation Method: 7470A

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Mercury	253.70	0.097

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Instrument Type: CV Instrument ID: CV2 Date: 01/14/2011

Preparation Method: 7471B

Concentration Units (ug/L, mg/kg, or ug): MG/KG

Analyte	Wavelength/Mass	MDL
Mercury	253.70	0.013

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Instrument Type: P Instrument ID: P5 Date: 12/17/2010

Preparation Method: 200.7

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Aluminum	396.10	8.4
Antimony	206.83	1.7
Arsenic	189.04	2.5
Barium	493.41	2.8
Beryllium	234.80	0.40
Cadmium	214.40	0.12
Calcium	373.60	16.9
Chromium	267.72	0.97
Cobalt	228.62	0.35
Copper	324.75	9.1
Iron	259.80	8.3
Lead	220.35	1.3
Magnesium	279.08	17.9
Manganese	257.61	0.39
Nickel	231.60	0.64
Potassium	769.80	83.7
Selenium	196.02	2.9
Silver	328.07	0.67
Sodium	818.30	148
Thallium	190.86	2.7
Vanadium	292.40	0.33
Zinc	213.80	5.1

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KQ6

Instrument Type: P Instrument ID: P5 Date: 12/17/2010

Preparation Method: 3050B

Concentration Units (ug/L, mg/kg, or ug): MG/KG

Analyte	Wavelength/Mass	MDL
Aluminum	396.10	0.70
Antimony	206.83	0.16
Arsenic	189.04	0.13
Barium	493.41	0.084
Beryllium	234.80	0.041
Cadmium	214.40	0.0092
Calcium	373.60	1.3
Chromium	267.72	0.11
Cobalt	228.62	0.035
Copper	324.75	0.50
Iron	259.80	0.54
Lead	220.35	0.078
Magnesium	279.08	2.9
Manganese	257.61	0.038
Nickel	231.60	0.077
Potassium	769.80	6.9
Selenium	196.02	0.27
Silver	328.07	0.061
Sodium	818.30	19.8
Thallium	190.86	0.17
Vanadium	292.40	0.030
Zinc	213.80	0.51

Comments: _____

Metals

12-IN

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Preparation Method: Midi-distillation

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
S0	08/10/2011	50.00	50
S5	08/10/2011	50.00	50
S10	08/10/2011	50.00	50
S100	08/10/2011	50.00	50
S250	08/10/2011	50.00	50
S500	08/10/2011	50.00	50
ICV	08/10/2011	50.00	50
ICB	08/10/2011	50.00	50
CCV	08/10/2011	50.00	50
CCB	08/10/2011	50.00	50
PBS	08/10/2011	1.00	50
ME5KQ6	08/10/2011	1.00	50
ME5KQ6D	08/10/2011	1.00	50
ME5KQ6S	08/10/2011	1.00	50
ME5KQ7	08/10/2011	1.00	50
ME5KQ8	08/10/2011	1.00	50
ME5KQ9	08/10/2011	1.00	50
ME5KR0	08/10/2011	1.00	50
ME5KR1	08/10/2011	1.00	50
ME5KR2	08/10/2011	1.00	50
CCV	08/10/2011	50.00	50
CCB	08/10/2011	50.00	50
ME5KR3	08/10/2011	1.00	50
CCV	08/10/2011	50.00	50
CCB	08/10/2011	50.00	50

Metals

12-IN

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Preparation Method: 3050B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
PBS	08/11/2011	1.00	100
LCS	08/11/2011	1.00	100
ME5KQ6	08/11/2011	1.00	100
ME5KQ6D	08/11/2011	1.00	100
ME5KQ6S	08/11/2011	1.00	100
ME5KQ7	08/11/2011	1.15	100
ME5KQ8	08/11/2011	1.34	100
ME5KQ9	08/11/2011	1.30	100
ME5KR0	08/11/2011	1.07	100
ME5KR1	08/11/2011	1.41	100
ME5KR2	08/11/2011	1.24	100
ME5KR3	08/11/2011	1.04	100

Metals

12-IN

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Preparation Method: 7471B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
S0.0	08/17/2011	100.00	100
S0.2	08/17/2011	100.00	100
S2.5	08/17/2011	100.00	100
S5.0	08/17/2011	100.00	100
S7.5	08/17/2011	100.00	100
S10.0	08/17/2011	100.00	100
ICV	08/17/2011	100.00	100
ICB	08/17/2011	100.00	100
CCV	08/17/2011	100.00	100
CCB	08/17/2011	100.00	100
CCV	08/17/2011	100.00	100
CCB	08/17/2011	100.00	100
PBS	08/17/2011	0.50	100
ME5KQ6	08/17/2011	0.50	100
ME5KQ6D	08/17/2011	0.50	100
ME5KQ6S	08/17/2011	0.50	100
ME5KQ7	08/17/2011	0.55	100
ME5KQ8	08/17/2011	0.54	100
ME5KQ9	08/17/2011	0.54	100
ME5KR0	08/17/2011	0.53	100
ME5KR1	08/17/2011	0.59	100
ME5KR2	08/17/2011	0.60	100
ME5KR3	08/17/2011	0.56	100
CCV	08/17/2011	100.00	100
CCB	08/17/2011	100.00	100
CCV	08/17/2011	100.00	100
CCB	08/17/2011	100.00	100

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: CN Analysis Method: AS

Start Date: 08/15/2011 End Date: 08/15/2011

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	1155																								X		
S5	1.0	1155																								X		
S10	1.0	1155																								X		
S100	1.0	1156																								X		
S250	1.0	1156																								X		
S500	1.0	1156																								X		
ICV	1.0	1228																								X		
ICB	1.0	1228																								X		
CCV	1.0	1228																								X		
CCB	1.0	1228																								X		
PBS	1.0	1228																								X		
ME5KQ6	1.0	1228																								X		
ME5KQ6D	1.0	1228																								X		
ME5KQ6S	1.0	1228																								X		
ME5KQ7	1.0	1228																								X		
ME5KQ8	1.0	1228																								X		
ME5KQ9	1.0	1228																								X		
ME5KR0	1.0	1234																								X		
ME5KR1	1.0	1234																								X		
ME5KR2	1.0	1234																								X		
CCV	1.0	1234																								X		
CCB	1.0	1234																								X		
ME5KR3	1.0	1234																								X		
CCV	1.0	1234																								X		
CCB	1.0	1234																								X		

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: CV2 Analysis Method: CV

Start Date: 08/18/2011 End Date: 08/18/2011

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		
S0.0	1.0	1603															X											
S0.2	1.0	1605															X											
S2.5	1.0	1607															X											
S5.0	1.0	1609															X											
S7.5	1.0	1611															X											
S10.0	1.0	1613															X											
ICV	1.0	1615															X											
ICB	1.0	1617															X											
CCV	1.0	1619															X											
CCB	1.0	1621															X											
ZZZZZZ	1.0	1623																										
ZZZZZZ	1.0	1625																										
ZZZZZZ	1.0	1627																										
ZZZZZZ	1.0	1629																										
ZZZZZZ	1.0	1631																										
ZZZZZZ	1.0	1633																										
ZZZZZZ	1.0	1635																										
ZZZZZZ	1.0	1637																										
ZZZZZZ	1.0	1639																										
ZZZZZZ	1.0	1641																										
ZZZZZZ	1.0	1643																										
ZZZZZZ	1.0	1645																										
ZZZZZZ	1.0	1647																										
ZZZZZZ	1.0	1649																										
ZZZZZZ	1.0	1651																										
ZZZZZZ	1.0	1654																										
CCV	1.0	1656															X											
CCB	1.0	1658															X											
PBS	1.0	1700															X											
ZZZZZZ	1.0	1702																										
ZZZZZZ	1.0	1704																										
ZZZZZZ	1.0	1706																										
ZZZZZZ	1.0	1708																										
ME5KQ6	1.0	1710															X											
ME5KQ6D	1.0	1712															X											
ME5KQ6S	1.0	1714															X											
ME5KQ7	1.0	1716															X											

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: CV2 Analysis Method: CV

Start Date: 08/18/2011 End Date: 08/18/2011

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		
ME5KQ8	1.0	1718															X											
ME5KQ9	1.0	1720															X											
ME5KR0	1.0	1722															X											
ME5KR1	1.0	1724															X											
ME5KR2	1.0	1726															X											
ME5KR3	1.0	1728															X											
CCV	1.0	1730															X											
CCB	1.0	1732															X											
ZZZZZZ	1.0	1734																										
ZZZZZZ	1.0	1736																										
ZZZZZZ	1.0	1739																										
ZZZZZZ	1.0	1741																										
ZZZZZZ	1.0	1743																										
ZZZZZZ	1.0	1745																										
ZZZZZZ	1.0	1747																										
ZZZZZZ	1.0	1749																										
ZZZZZZ	1.0	1751																										
ZZZZZZ	1.0	1754																										
ZZZZZZ	1.0	1756																										
ZZZZZZ	1.0	1758																										
ZZZZZZ	1.0	1800																										
ZZZZZZ	1.0	1802																										
CCV	1.0	1804															X											
CCB	1.0	1807															X											

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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	0957	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S1	1.0	1000	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S2	1.0	1004	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S3	1.0	1007	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S4	1.0	1010	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S5	1.0	1014	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICV	1.0	1106	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	1110	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	1113	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB	1.0	1117	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV	1.0	1120	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	1124	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	1145	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	1148	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	1152	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS	1.0	1155	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KQ6	1.0	1159	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KQ6D	1.0	1202	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KQ6S	1.0	1206		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME5KQ6L	5.0	1209	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KQ7	1.0	1213	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KQ8	1.0	1216	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KQ9	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			
ME5KR0	1.0	1223	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KR1	1.0	1227	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KR2	1.0	1230	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KR3	1.0	1233	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	1237																										
ZZZZZZ	1.0	1240																										
ZZZZZZ	1.0	1244																										
ZZZZZZ	1.0	1248																										
ZZZZZZ	1.0	1251																										
ZZZZZZ	1.0	1255																										
ZZZZZZ	1.0	1258																										
ZZZZZZ	1.0	1301																										
ZZZZZZ	1.0	1305																										
ZZZZZZ	1.0	1308																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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	
ZZZZZZ	1.0	1312																									
ZZZZZZ	5.0	1315																									
ZZZZZZ	1.0	1319																									
ZZZZZZ	1.0	1322																									
ZZZZZZ	1.0	1326																									
ZZZZZZ	1.0	1329																									
CCV	1.0	1333	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	1336	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ME5KQ6A	1.0	1341												X		X											
ZZZZZZ	10	1345																									
ZZZZZZ	10	1348																									
ZZZZZZ	10	1352																									
ZZZZZZ	10	1355																									
ZZZZZZ	1.0	1359																									
ZZZZZZ	1.0	1403																									
ZZZZZZ	1.0	1406																									
ZZZZZZ	1.0	1410																									
ZZZZZZ	1.0	1413																									
ZZZZZZ	1.0	1417																									
ZZZZZZ	1.0	1420																									
ZZZZZZ	1.0	1424																									
ZZZZZZ	1.0	1428																									
ZZZZZZ	1.0	1431																									
ZZZZZZ	1.0	1435																									
ZZZZZZ	1.0	1438																									
ZZZZZZ	1.0	1442																									
CCV	1.0	1514	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	1517	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	1834	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	1837	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	1841																									
ZZZZZZ	1.0	1845																									
ZZZZZZ	1.0	1848																									
ZZZZZZ	1.0	1852																									
ZZZZZZ	1.0	1855																									
ZZZZZZ	1.0	1859																									
ZZZZZZ	1.0	1903																									
ZZZZZZ	1.0	1906																									

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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		
ZZZZZZ	1.0	1910																										
ZZZZZZ	1.0	1913																										
ZZZZZZ	1.0	1917																										
ZZZZZZ	1.0	1921																										
ZZZZZZ	1.0	1924																										
ZZZZZZ	1.0	1928																										
ZZZZZZ	1.0	1931																										
ZZZZZZ	5.0	1935																										
ZZZZZZ	1.0	1938																										
ZZZZZZ	1.0	1942																										
ZZZZZZ	1.0	1945																										
ZZZZZZ	1.0	1949																										
ZZZZZZ	1.0	1952																										
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	1959																										
ZZZZZZ	1.0	2003																										
ZZZZZZ	1.0	2007																										
ZZZZZZ	1.0	2010																										
ZZZZZZ	1.0	2014																										
ZZZZZZ	1.0	2017																										
ZZZZZZ	5.0	2020																										
CCV	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			
CCB	1.0	2027	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	1103	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	1107	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	1110																										
ZZZZZZ	1.0	1114																										
ZZZZZZ	1.0	1117																										
ZZZZZZ	1.0	1121																										
ZZZZZZ	1.0	1125																										
ZZZZZZ	1.0	1128																										
ZZZZZZ	1.0	1132																										
ZZZZZZ	1.0	1135																										
ZZZZZZ	1.0	1139																										
ZZZZZZ	1.0	1142																										
ZZZZZZ	1.0	1146																										
ZZZZZZ	1.0	1149																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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		
ZZZZZZ	1.0	1153																										
ZZZZZZ	1.0	1156																										
ZZZZZZ	1.0	1200																										
ZZZZZZ	5.0	1203																										
ZZZZZZ	1.0	1207																										
ZZZZZZ	1.0	1210																										
ZZZZZZ	1.0	1214																										
ZZZZZZ	5.0	1217																										
ZZZZZZ	1.0	1221																										
ZZZZZZ	1.0	1224																										
ZZZZZZ	1.0	1228																										
ZZZZZZ	1.0	1231																										
ZZZZZZ	1.0	1235																										
ZZZZZZ	1.0	1238																										
CCV	1.0	1242	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	1245	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	1248																										
ZZZZZZ	1.0	1252																										
ZZZZZZ	1.0	1255																										
ZZZZZZ	1.0	1259																										
ZZZZZZ	1.0	1302																										
ZZZZZZ	1.0	1306																										
ZZZZZZ	1.0	1309																										
ZZZZZZ	1.0	1313																										
ZZZZZZ	1.0	1316																										
ZZZZZZ	1.0	1320																										
ZZZZZZ	5.0	1326																										
ZZZZZZ	1.0	1330																										
ZZZZZZ	1.0	1333																										
ZZZZZZ	1.0	1337																										
ZZZZZZ	1.0	1341																										
ZZZZZZ	1.0	1344																										
ZZZZZZ	1.0	1348																										
ZZZZZZ	5.0	1351																										
ZZZZZZ	1.0	1355																										
ZZZZZZ	1.0	1358																										
ZZZZZZ	1.0	1402																										
ZZZZZZ	1.0	1406																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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		
ZZZZZZ	5.0	1409																										
ZZZZZZ	1.0	1413																										
ZZZZZZ	1.0	1416																										
ZZZZZZ	1.0	1420																										
ZZZZZZ	1.0	1424																										
CCV	1.0	1437	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1440	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	10	1444																										
ZZZZZZ	10	1447																										
ZZZZZZ	10	1451																										
ZZZZZZ	10	1454																										
ZZZZZZ	50	1458																										
ZZZZZZ	10	1501																										
ZZZZZZ	10	1505																										
ZZZZZZ	10	1508																										
ZZZZZZ	10	1512																										
ZZZZZZ	10	1515																										
ZZZZZZ	10	1519																										
ZZZZZZ	10	1522																										
ZZZZZZ	10	1526																										
ZZZZZZ	10	1529																										
ZZZZZZ	10	1533																										
ZZZZZZ	50	1536																										
ZZZZZZ	10	1540																										
ZZZZZZ	10	1543																										
ZZZZZZ	1.0	1547																										
ZZZZZZ	1.0	1550																										
CCV	1.0	1554		X	X	X			X	X	X	X	X	X	X	X			X	X	X	X	X	X	X			
CCB	1.0	1557		X	X	X			X	X	X	X	X	X	X	X			X	X	X	X	X	X	X			

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: P5 Analysis Method: P

Start Date: 08/24/2011 End Date: 08/24/2011

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	1324																							X			
S1	1.0	1328																							X			
S2	1.0	1332																							X			
S3	1.0	1335																							X			
S4	1.0	1338																							X			
S5	1.0	1342																							X			
ICV	1.0	1345																							X			
ICB	1.0	1348																							X			
ICSA	1.0	1352	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB	1.0	1355	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV	1.0	1409																							X			
CCB	1.0	1412																							X			
ZZZZZZ	1.0	1416																										
ZZZZZZ	1.0	1419																										
ZZZZZZ	1.0	1422																										
ZZZZZZ	1.0	1426																										
ZZZZZZ	1.0	1429																										
ZZZZZZ	1.0	1433																										
ZZZZZZ	1.0	1436																										
ZZZZZZ	1.0	1440																										
ZZZZZZ	1.0	1443																										
ZZZZZZ	1.0	1447																										
ZZZZZZ	1.0	1450																										
ZZZZZZ	5.0	1454																										
ZZZZZZ	1.0	1457																										
ZZZZZZ	1.0	1501																										
ZZZZZZ	1.0	1504																										
ZZZZZZ	1.0	1508																										
ZZZZZZ	1.0	1511																										
ZZZZZZ	1.0	1515																										
ZZZZZZ	5.0	1518																										
ZZZZZZ	1.0	1522																										
ZZZZZZ	1.0	1525																										
ZZZZZZ	1.0	1529																										
ZZZZZZ	1.0	1533																										
ZZZZZZ	5.0	1536																										
ZZZZZZ	1.0	1540																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KQ6

Instrument ID: P5 Analysis Method: P

Start Date: 08/24/2011 End Date: 08/24/2011

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		
ZZZZZZ	1.0	1543																										
ZZZZZZ	1.0	1547																										
ZZZZZZ	1.0	1551																										
ME5KQ6A	1.0	1554																							X			
CCV	1.0	1558																							X			
CCB	1.0	1601																							X			

Controlled Document

ESAT5.316.00075
ACH
9-30-11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: September 2, 2011

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: OEPA
Email address: victoria.sigler@epa.state.oh.us;
wendy.vorwerk@epa.state.oh.us

Level 3 Data Validation

We have reviewed the data for the following case:

Site Name: Clyde Dump (OH)

Case Number: 41647 SDG Number: E5KR4

Number and Type of Samples: 13 Soils (VOA, SVOA, Pesticide, Aroclor)

Sample Numbers: E5KR4 – E5KR9, E5KS0 – E5KS6

Laboratory: ALS Laboratory Group Hrs for Review:_____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KR4
Laboratory: ALS Laboratory

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Thirteen (13) soil samples; E5KR4 thru E5KR9, and E5KS0 thru E5KS6, were collected on August 9 and 10, 2011. The samples were received by ALS Laboratory Group located in Salt Lake City, UT on August 10 and 11, 2011. All samples were received intact and at the proper shipping temperature range of 2 - 6°C.

All samples were analyzed for the 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 2.6).

Sample E5KS6 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

No samples were identified as trip blanks, field blanks, or field duplicates.

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KR4
Laboratory: ALS Laboratory

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. The compound was not detected in the samples. Non-detected compounds are qualified "R".

E5KR4, E5KR4RE, E5KR5, E5KR5RE, E5KR6, E5KR7, E5KR8, E5KR8RE, E5KR9, E5KS0, E5KS0RE, E5KS1, E5KS1RE, E5KS2, E5KS2RE, E5KS3, E5KS3RE, E5KS4, E5KS5, E5KS5RE, E5KS6, E5KS6MS, E5KS6MSD, VBLKS1, VBLKS2, 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.

E5KR4, E5KR4RE, E5KR5, E5KR5RE, E5KR6, E5KR7, E5KR8, E5KR8RE, E5KR9, E5KS0, E5KS0RE, E5KS1, E5KS1RE, E5KS2, E5KS2RE, E5KS3, E5KS3RE, E5KS4, E5KS5, E5KS5RE, E5KS6, E5KS6MS, E5KS6MSD, VBLKS1, VBLKS2, VHBLKS1
1,4-Dioxane-d_8

The following semivolatile samples are associated with an opening CCV percent difference (%D) outside criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E5KR7, E5KR7DL, E5KR8, E5KS0, E5KS2, E5KS5, E5KS5DL
Phenol, Pyrene

E5KS6MSD
Pyrene

The following semivolatile samples are associated with an opening CCV in which a surrogate/DMC exceeded percent difference (%D) criteria. Detected and non-detected compounds are not qualified.

E5KR7, E5KR7DL, E5KR8, E5KS0, E5KS2, E5KS5, E5KS5DL
Pyrene-d_{10}

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. Ultimately, the compounds are qualified "R" for internal standard criteria.

1,2,3-Trichlorobenze
E5KR4, E5KR4RE

1,2,4-Trichlorobenzene
E5KR4RE

The following volatile samples have TIC concentrations reported less than 5x the associated storage blank concentration. Detected compounds are qualified "U" and deleted from the TIC report.

Unknown Deuterated Trichloroethene @ 9.02
E5KS1, E5KS4

The following semivolatile samples have common contaminant concentrations reported less than 5x the CRQL. The associated method blank concentration is less than 5x the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to 5x the CRQL.

bis(2-Ethylhexyl)phthalate
E5KR4, E5KR5, E5KR6, E5KS6, E5KS6MS, E5KS6MSD

The following semivolatile 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. Ultimately, Benzaldehyde is qualified "UJ" in samples E5KR7, E5KR8, E5KS0, and E5KS5 for surrogate criteria.

Benzaldehyde
E5KR7, E5KR8, E5KR9, E5KS0, E5KS3, E5KS5

The following semivolatile samples have TIC concentrations reported less than 5x the associated method blank concentration. Detected compounds are qualified "U" and deleted from the TIC report. See section 12 for more information on TIC names.

Unknown @ 4.34
E5KR4, E5KR5, E5KR6, E5KS6

Unknown @ 6.79
E5KR4, E5KR5, E5KS6

Unknown @ 18.62
E5KR4, E5KR5, E5KR6, E5KR7, E5KR8, E5KR9, E5KS0, E5KS1, E5KS2, E5KS3, E5KS4, E5KS5, E5KS5DL, E5KS6

Unknown @ 23.67
E5KR4, E5KR5, E5KR6, E5KR8, E5KR9, E5KS0, E5KS1, E5KS2, E5KS3, E5KS4, E5KS5, E5KS5DL, E5KS6

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. Ultimately, some non-detected compounds in samples E5KR5, E5KR5RE, E5KR8, E5KS0, E5KS0RE, E5KS2, E5KS5RE, and E5KS6MSD are qualified "R" for internal standard criteria.

E5KR4
Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Carbon disulfide, Cyclohexane, Benzene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane

E5KR4RE, E5KS1RE, E5KS6
Benzene

E5KR5
Vinyl chloride, Acetone, 2-Butanone, Cyclohexane, Benzene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, 4-Methyl-2-pentanone, 2-Hexanone

E5KR5RE
Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Acetone, Carbon disulfide, 2-Butanone, Cyclohexane, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, 4-Methyl-2-pentanone, Toluene, Tetrachloroethene, 2-Hexanone, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene

E5KR8
Vinyl chloride, Cyclohexane, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, Toluene, Tetrachloroethene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene

E5KR8RE, E5KS1, E5KS3, E5KS3RE, E5KS5, E5KS6MS
Cyclohexane, Benzene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane

E5KS0
Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Carbon disulfide, Cyclohexane, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene

E5KS0RE, E5KS5RE, E5KS6MSD
Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Carbon disulfide, Cyclohexane, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, Toluene, Tetrachloroethene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene

E5KS2
Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Carbon disulfide, Cyclohexane, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene

The following volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E5KS1
cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane

The following semivolatile samples have deuterated monitoring compound recovery above the upper limit of the criteria window. Detected compounds are qualified "J". Non-detected compounds are not qualified. Ultimately, non-detected Phenol in E5KR8, E5KS0, and E5KS5 is qualified "UJ" for calibration criteria.

E5KR7, E5KR8, E5KS0, E5KS5
Benzaldehyde, Phenol

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".

E5KR5, E5KR7, E5KS0, E5KS2, E5KS5, E5KS6MS, E5KS6MSD
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene

E5KS1, E5KS3
4-Chloroaniline, Hexachlorocyclopentadiene, Fluoranthene, Pyrene, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Chrysene

The following diluted semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected and non-detected compounds are not qualified. Ultimately, detected Pyrene is qualified "J" for calibration criteria.

E5KR7DL, E5KS5DL
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene

The following diluted aroclor samples with dilution factors greater than 5 have surrogate percent recoveries which exceed 150% but are less than or equal to 200%. Detected and non-detected compounds are not qualified.

E5KR7DL
Decachlorobiphenyl

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E5KS6 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

The following volatile matrix spike/matrix spike duplicate samples have percent recovery greater than the upper acceptance limit. The compound was not detected in the unspiked sample, E5KS6. Non-detected compounds in the unspiked sample, E5KS6, are not qualified for this criterion.

E5KS6MS
Trichloroethene, Benzene

The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria. Detected Toluene in the unspiked sample, E5KS6, is qualified "J". Non-detected compounds in the unspiked sample, E5KS6, are qualified "UJ".

E5KS6MS, E5KS6MSD
1,1-Dichloroethene, Benzene, Trichloroethene, Toluene, Chlorobenzene

The following volatile matrix spike/matrix spike duplicate samples have percent recovery 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 unspiked sample, E5KS6. Non-detected compounds in the unspiked sample, E5KS6, are qualified "UJ".

E5KS6MS
Chlorobenzene

The pesticide Form III – MS/MSD Summary was re-calculated using the lowest obtained value for each compound. The RPDs were re-calculated using these values.

	Spike (ug/Kg)	Source (ug/Kg)	MS (ug/Kg)	MS (%R)	MSD (ug/Kg)	MSD (%R)	RPD	%R QC	RPD QC
gamma-BHC (Lindane)	19	0.0	11	58	12	63	8.7	46-127	0-50
Heptachlor	19	0.0	11	58	12	63	8.7	35-130	0-31
Aldrin	19	0.0	12	63	12	63	8.7	34-132	0-43
Dieldrin	39	0.0	26	67	27	69	0.0	31-134	0-38
Endrin	39	0.0	29	74	28	72	3.5	42-139	0-45
4,4'-DDT	39	9.2	31	56	32	58	4.5	23-134	0-50

6B. LABORATORY CONTROL SAMPLE

No problems were found.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as trip blanks, field blanks, or field duplicates. Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "R".

E5KR5, E5KR5RE, E5KR8, E5KS0, E5KS0RE, E5KS2, E5KS5RE, E5KS6MSD
1,1,1-Trichloroethane, Cyclohexane, Carbon tetrachloride, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E5KR4, E5KR4RE, E5KR8RE, E5KS1, E5KS1RE, E5KS2RE, E5KS3, E5KS3RE, E5KS5, E5KS6, E5KS6MS
Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, pesticide, and Aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have compound concentrations above the MDL and less than the CRQL. Detected compounds are qualified "J".

E5KR4
Acetone, Methylene chloride, Toluene

E5KR4RE, E5KS0RE, E5KS2, E5KS4, E5KS5, E5KS6
Toluene

E5KR5
Acetone, Carbon disulfide, Chloroform, Toluene

E5KR5RE
Carbon disulfide, Chloroform, Toluene

E5KR7
Carbon disulfide, Benzene, Methylcyclohexane, Toluene, Ethylbenzene, Isopropylbenzene

E5KR8
Acetone, Toluene

E5KR8RE
Toluene, Tetrachloroethene

E5KR9
trans-1,2-Dichloroethene, 2-Butanone, Chloroform, Toluene, Tetrachloroethene, m,p-Xylene

E5KS0
Methylene chloride, Toluene, Tetrachloroethene

E5KS1
Carbon disulfide, Methylene chloride, Chloroform, Cyclohexane, Benzene, 1,2-Dichloropropane, Toluene, Ethylbenzene, o-Xylene, m,p-Xylene

E5KS1RE
Chloroform, 1,2-Dichlorpopane, Toluene, o-Xylene, m,p-Xylene

E5KS2RE
Chloroform, Toluene

E5KS3
Carbon disulfide, Methylene chloride, Cyclohexane, Benzene, Methylcyclohexane, Toluene, o-Xylene, m,p-Xylene, 1,4-Dichlorobenzene

E5KS3RE
Methylene chloride, 1,1-Dichloroethane, Cyclohexane, Benzene, Trichloroethene, Methylcyclohexane, Toluene, m,p-Xylene, 1,4-Dichlorobenzene

E5KS5RE
Toluene, Tetrachloroethene, m,p-Xylene

E5KS6MS, E5KS6MSD
Acetone

VBLKS1, VBLKS2
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 samples. Detected compounds are qualified "NJ".

CAS No. 95-63-6 – Benzene, 1,2,4-trimethyl-;
CAS No. 611-14-3 – Benzene, 1-ethyl-2-methyl-
E5KS3RE

CAS No. 108-67-8 – Benzene, 1,3,5-trimethyl-
E5KS3

CAS No. 320-60-5 – Benzene, 2,4-dichloro-1-(trifluoromethyl…
E5KR6

CAS No. 496-11-7 – Indane;
CAS No. 526-73-8 – Benzene, 1,2,3-trimethyl-
E5KS3, E5KS3RE

A library search indicates a match below 85% for a TIC compound in the volatile samples. Detected compounds are qualified "J".

Unknown Fluorocarbon @ 5.57
E5KR4, E5KR4RE, E5KS3, E5KS5RE

Unknown Deuterated Trichloroethene @ 9.02
VHBLKS1

Unknown Benzene, propyl- @ 14.78
E5KS3RE

Unknown C4 Unsaturated Sub Benzene + Col... @ 17.37
E5KS3, E5KS3RE

The following semivolatile samples have compound concentrations above the MDL and less than the CRQL. Detected compounds are qualified "J".

E5KR4
Phenanthrene, Di-n-buylphthalate, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(g,h,i)perylene

E5KR5
Benzaldehyde, Phenanthrene, Di-n-buylphthalate, Benzo(a)anthracene

E5KR6
Benzaldehyde, 2-Methylnaphthalene, Acenaphthene, Dibenzofuran, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene

E5KR7
Phenol, 4-Methylphenol, 2-Methylnaphthalene, 1,1'-Biphenyl, Acenaphthene, Diethylphthalate, Di-n-butylphthalate, Butylbenzylphthalate, Dibenzo(a,h)anthracene

E5KR7DL, E5KS3
Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Di-n-buylphthalate, 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

E5KR8
Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Carbazole, Di-n-buylphthalate, Fluoranthene, Pyrene, 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

E5KR9
Naphthalene, 2-Methylnaphthalene, Dibenzofuran, Fluorene, Phenanthrene, Anthracene, Carbazole, Di-n-buylphthalate, Pyrene, 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

E5KS0
Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Carbazole, Di-n-buylphthalate, bis(2-Ethylhexyl)phthalate, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E5KS1
2-Methylnaphthalene, 1,1'-Biphenyl, Acenaphthylene, Fluorene, Phenanthrene, Anthracene, Di-n-buylphthalate, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E5KS2
Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Di-n-buylphthalate, bis(2-Ethylhexyl)phthalate, Dibenzo(a,h)anthracene

E5KS4
Phenanthrene, Di-n-buylphthalate, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

E5KS5
Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Phenanthrene, Anthracene, Carbazole, Di-n-buylphthalate, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

E5KS5DL
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

E5KS6
Benzaldehyde, Phenanthrene, Di-n-buylphthalate, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

E5KS6MS
Benzaldehyde, Phenanthrene, Anthracene, Fluoranthene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene, 2,3,4,6-Tetrachlorophenol

E5KS6MSD
Phenanthrene, Anthracene, Fluoranthene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, 2,3,4,6-Tetrachlorophenol

SBLK03
bis(2-Ethylhexyl)phthalate

SBLK32
Benzaldehyde

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
E5KR6, E5KS6

CAS No. 58-95-7 – 2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetram;
CAS No. 58801-23-3 – Hop-22(29)-en-3.beta.-ol;
CAS No. 62951-96-6 – 1,5,9-Undecatriene, 2,6,10-trimethyl-, (Z)-;
CAS No. 300574-36-1 – 5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan
E5KR6

CAS No. 70-55-3 – Benzenesulfonamide, 4-methyl-;
CAS No. 191-26-4 – Dibenzo[def,mno]chrysene;
CAS No. 234-41-3 – Naphtho[1,2-b]thiophene;
CAS No. 486-25-9 – 9H-Fluoren-9-one;
CAS No. 781-43-1 – 9,10-Dimethylanthracene;
CAS No. 1705-85-7 – Chrysene, 6-methyl-;
CAS No. 6566-19-4 – 10,18-Bisnorabieta-5,7,9(10),11,13-pentaene;
CAS No. 132545-36-9 – 1-Methyl-4-ethyl 2-phenylsuccinate
E5KR7

CAS No. 84-65-1 – 9,10-Anthracenedione;
CAS No. 832-69-9 – Phenanthrene, 1-methyl-;
CAS No. 2381-21-7 – Pyrene, 1-methyl-;
CAS No. 2531-84-2 – Phenanthrene, 2-methyl-
E5KR7, E5KS2

CAS No. 85-41-6 – Phthalamide;
CAS No. 103-23-1 – Hexanedioic acid, bis(2-ethylhexyl) ester;
CAS No. 526-73-8 – Benzene, 1,2,3-trimethyl-;
CAS No. 581-42-0 – Naphthalene, 2,6-dimethyl-;
CAS No. 933-98-2 – Benzene, 1-ethyl-2,3-dimethyl-;
CAS No. 934-74-7 – Benzene, 1-ethyl-3,5-dimethyl-;
CAS No. 1074-43-7 – Benzene, 1-methyl-3-propyl-;
CAS No. 1000333-19-5 – cis-9-Hexadecenoic acid
E5KS1

CAS No. 112-04-9 – Silane, trichlorooctadecyl-
E5KS0

CAS No. 143-07-7 – Dodecanoic acid;
E5KR9, E5KS3

CAS No. 192-97-2 – Benzo[e]pyrene
E5KR7, E5KS0, E5KS2

CAS No. 203-64-5 – 4H-Cyclopenta[def]phenanthrene
E5KS0, E5KS2

CAS No. 301-02-0 – 9-Octadecenamide, (Z)-
E5KR9, E5KS5, SBLK03

CAS No. 544-63-8 – Tetradecanoic acid
E5KS1, E5KS3

CAS No. 934-80-5 – Benzene, 4-ethyl-1,2-dimethyl-;
CAS No. 1758-88-9 – Benzene, 2-ethyl-1,4-dimethyl-;
CAS No. 2870-04-4 – Benzene, 2-ethyl-1,3-dimethyl-
E5KR7, E5KS1

CAS No. 949-41-7 – 1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-
E5KR7, E5KS0

CAS No. 3674-66-6 – Phenanthrene, 2,5-dimethyl-;
CAS No. 33543-31-6 – Fluoranthene, 2-methyl-
E5KS2

CAS No. 23192-42-9 – 7-Hexadecen-1-ol, acetate, (Z)-
E5KS6

CAS No. 31508-00-6 – 1,1'-Biphenyl, 2,3',4,4',5-pentachloro-;
CAS No. 35693-99-3 – 1,1'-Biphenyl, 2,2',5,5'-tetrachloro-;
CAS No. 38380-03-9 – 1,1'-Biphenyl, 2,3,3',4',6-pentachloro-;
CAS No. 60145-20-2 – 1,1'-Biphenyl, 2,2',3,3',5-pentachloro-;
CAS No. 61798-70-7 – 1,1'-Biphenyl, 2,2',3,3',4,6-Hexachloro-
E5KR8, E5KS5

CAS No. 37680-73-2 – 1,1'-Biphenyl, 2,2',4,5,5'-pentachloro-;
CAS No. 38380-08-4 – 1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-;
CAS No. 52663-61-3 – 1,1'-Biphenyl, 2,2',3,5,5'-pentachloro-;
CAS No. 68194-07-0 – 2,2',3,4',5-Pentachloro-1,1'-biphenyl;
CAS No. 74472-45-0 – 2,3,3',4',5',6-Hexachloro-1,1'-biphenyl;
CAS No. 74472-46-1 – 2,3,3',5,5',6-Hexachloro-1,1'-biphenyl
E5KS5

CAS No. 41083-77-6 – Cholestane-3,6-diol, (3.beta.,5.alpha.,6.alpha.,;
CAS No. 52663-60-2 – 1,1'-Biphenyl, 2,2',3,3',6-pentachloro-;
CAS No. 52712-04-6 – 1,1'-Biphenyl, 2,2',3,4,5,5'-hexachloro-;
CAS No. 59291-65-5 – 2,3',4,4',5',6-Hexachloro-1,1'-biphenyl;
CAS No. 69782-90-7 – 1,1'-Biphenyl, 2,3,3',4,4',5'-hexachloro-;
CAS No. 73575-57-2 – 2,2',3,4,6'-Pentachloro-1,1'-biphenyl
E5KR8

CAS No. 107997-59-1 – 1-(3-Methylbutyl)-2,3,4-trimethylbenzene
E5KR4

CAS No. 1000309-17-9 – Sulfurous acid, butyl dodecyl ester
E5KS4

A library search indicates a match below 85% for a TIC compound in the semivolatile samples. Detected compounds are qualified "J".

Unknown Formic acid hydrazide @ 4.08;
Unknown Benzene, 2-propenyl- @ 4.65;
Unknown Benzene, (1-ethylpropyl)- @ 5.12;
Unknown Isophthalic acid, phenyl undecyl ester @ 13.18;
Unknown Benzene, 1,1'-(diazomethylene)bis- @ 14.27;
Unknown Phthalic acid, 4-methoxyphenyl 3-methylphenyl es @ 14.84;
Unknown Spiro[isobenzofuran-1(3H)-one-3,2'-tetrahydrofur @ 17.36;
Unknown Tricyclo[7.3.0.0(3,8)]dodec-1(9)-en-12-one, 2,2- @ 19.10;
Unknown Atropine @ 24.59
E5KS1

Unknown Acetic acid, 1-methylethyl ester @ 4.38;
SBLK03, SBLK32

Unknown 2H-Pyrrol-2-one, 1,5-dihydro-4-methoxy- @ 4.88;
Unknown Benzene, 2,4-diisocyanato-1-methyl- @ 7.27;
Unknown 9H-Cyclopenta[a]pyrene @ 16.37;
Unknown 1,4-Di(triethylsilyl)butadiyne @ 21.18;
Unknown Acetamide, N-[5-bromo-(1,1'-biphenyl)-2-yl]- @ 24.26
E5KS0

Unknown Benzene, 1-ethyl-2,3-dimethyl- @ 5.56
E5KR7, E5KS1

Unknown 2-Acetyl-5-norbornene @ 5.79;
Unknown Nonane, 2,8-dimethyl-4-methylene- @ 6.27;
Unknown Octadecane, 1-(ethenyloxy)- @ 9.06;
Unknown 1,1'-Biphenyl, 3,4-diethyl- @ 11.44;
Unknown Benzo[c]phenanthrene @ 15.70;
Unknown 1,9,12-Octadecatriene, 1-methoxy- @ 18.37;
Unknown Sulfurous acid, butyl dodecyl ester @ 19.30;
Unknown Dibenzo[def,mno]chrysene @ 20.61
E5KS2

Unknown 8-Oxabicyclo[5.1.0]octane @ 6.27;
Unknown Oxalic acid, allyl octadecyl ester @ 9.06;
Unknown 2-Butanone, 4-(2,3-epoxy-2,6,6-trimethylcyclohex @ 11.43;
Unknown 9,10-Dimethylanthracene @ 13.18;
Unknown 3,5-Hexadien-2-one, 5-methyl-6-(4-nitrophenyl)- @ 19.16;
Unknown Fumaric acid, 2-methylpentyl tetradecyl ester @ 23.44;
Unknown Tropine, 2,6-dichlorophenylacetate @ 24.59
E5KS4

Unknown 6-Isopropylquinoline @ 6.79;
Unknown Phthalic acid, monoethyl ester @ 18.62;
Unknown [2.2]Paracyclophane @ 23.67
SBLK03

Unknown 1-(3-Methylbutyl)-2,3,6-trimethylbenzene @ 8.24
E5KS2, E5KS4

Unknown Undecanoic acid @ 9.02;
Unknown 9H-Fluoren-9-ol @ 9.95;
Unknown Tetradecanoic acid @ 10.75;
Unknown Phenanthridine @ 11.44;
Unknown Hexadecanoic acid, 2-hydroxy-, methyl ester @ 12.95;
Unknown 1-Phenanthrenecarboxaldehyde, 1,2,3,4,4a,9,10,10 @ 13.01;
Unknown Cyclopenta(def)phenanthrenone @ 13.32;
Unknown Squalene @ 17.08;
Unknown Ambreinolide @ 19.47;
Unknown 1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyclohexen- @ 20.37;
Unknown [2.2]Paracyclophane @ 23.74
E5KR7

Unknown Cycloundecanol, 1-methyl- @ 11.43;
Unknown Naphthalene, 1,2-dihydro-4-phenyl- @ 13.17;
Unknown Phthalic acid, nonyl pentadecyl ester @ 17.07;
Unknown 1,2-Benzenedicarboxylic acid, dinonyl ester @ 17.25;
Unknown 1,2-Benzenedicarboxylic acid, ditridecyl ester @ 17.33;
Unknown 2-Cyano-3-phenylquinoxaline @ 19.16
E5KR4

Unknown 1,3-Cyclooctadiene, (Z,Z)- @ 11.46;
Unknown 3,4-Pentadien-1-ol, 2,2-dimethyl- @ 14.99;
Unknown 4-[N-Methylpiperazin-1-yl]-5-amino veratrole @ 18.37;
Unknown .beta.-Sitosterol @ 22.53;
Unknown 1R,4S,7S,11R-2,2,4,8-Tetramethyltricyclo[5.3.1.0 @ 23.03;
Unknown Quinoline, 2-[2-(3-pyridyl)ethenyl]- @ 23.19;
Unknown 2-n-Propylthiane, S,S-dioxide @ 24.39;
Unknown 3,7,11-Trimethyl-dodeca-2,4,6,10-tetraenal @ 24.60;
Unknown Tricyclo[6.3.0.0(2,4)]undec-8-ene, 3,3,7,11-tetr @ 25.01;
Unknown Diepicedrene-1-oxide @ 25.25
E5KR6

Unknown Hexadecanoic acid, 2,3-bis(acetyloxy)propyl este @ 14.34
E5KR5

Unknown 1-Formyl-2,2-dimethyl-3-trans-(3-methyl-but-2-en @ 15.09;
Unknown 2-Isopropenyl-4a,8-dimethyl-1,2,3,4,4a,5,6,7-oct @ 16.05;
Unknown 3,7,11-Tridecatrienenitrile, 4,8,12-trimethyl- @ 17.05;
Unknown 1-Octacosanol @ 17.71;
Unknown 3-Cyclohexene-1-carboxaldehyde, 2,4,6-trimethyl- @ 22.53;
Unknown 7,9-Dimethyl-1,4-dioxa-7,9-diazacycloundecane-8- @ 23.42;
Unknown 4,6-Dimethyl-2-pyrimidone @ 24.58
E5KS6

Unknown Benzofuran-2-one, 3-methyl-3-aza-2,3-dihydro- @ 16.54
E5KS3

Unknown Phthalic acid, 2,7-dimethyloct-7-en-5-yn-4-yl he @ 16.54;
Unknown 1,2-Benzenedicarboxylic acid @ 18.62;
Unknown Phthalic acid, monoethyl ester @ 23.65
SBLK32

Unknown Sulfurous acid, 2-propyl tridecyl ester @ 18.35
E5KR9

Unknown 3-Hydroxypregn-5-en-20-one hydrazone @ 18.36
E5KR8

Unknown 1H-Indene, 2-decyloctahydro- @ 19.42
E5KR7DL

Unknown Phosphine, methyl-(2,4,6-triisopropylphenyl)- @ 21.19;
Unknown Testosterone @ 24.63
E5KS5

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E5KR5
delta-BHC

E5KR6
Endosulfan sulfate, gamma-Chlordane

E5KR7
alpha-BHC, beta-BHC, Heptachlor

E5KR7DL
Heptachlor epoxide, Dieldrin, Endrin, Endosulfan II

E5KR8
beta-BHC, gamma-BHC (Lindane), Heptachlor, Methoxychlor, Endrin ketone

E5KR8DL
Endrin, Endosulfan II

E5KR9, E5KS3
4,4'-DDT, Endrin ketone

E5KS0
delta-BHC, Heptachlor epoxide, 4,4'-DDE, Endrin

E5KS1
Heptachlor

E5KS2
Heptachlor epoxide, Dieldrin, 4,4'-DDE

E5KS4
Dieldrin, 4,4'-DDE, Endosulfan II, 4,4'-DDT, alpha-Chlordane

E5KS5
beta-BHC, gamma-BHC (Lindane), Methoxychlor

E5KS5DL
Endosulfan II

E5KS6
Heptachlor epoxide, 4,4'-DDE, Endosulfan II

E5KS6MS, E5KS6MSD
4,4'-DDE, Endrin ketone

PLCSS1
gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, Endosulfan sulfate, gamma-Chlordane

PLCSS2
gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endosulfan sulfate, gamma-Chlordane

The relative percent difference between analyte results for the following pesticide samples is greater than 25%. The sample result is less than 25% of the CRQL. Detected compounds are qualified "U" as false positives. Reported sample concentrations have been elevated to the CRQL.

E5KR4
delta-BHC, Aldrin, Heptachlor epoxide, 4,4'-DDD, 4,4'-DDT, Methoxychlor, gamma-Chlordane

E5KR5
Heptachlor epoxide, 4,4'-DDD, Endrin ketone

E5KR6
delta-BHC, Heptachlor epoxide, Dieldrin, 4,4'-DDD, Methoxychlor

E5KR7DL
Endrin aldehyde

E5KR8
Endosulfan sulfate

E5KR8DL
beta-BHC, Endrin ketone

E5KR9
delta-BHC, Heptachlor epoxide, 4,4'-DDE, Methoxychlor

E5KS0
beta-BHC, Aldrin, Endosulfan I, Endosulfan II, Endrin aldehyde

E5KS1
alpha-BHC, delta-BHC

E5KS2
delta-BHC, Endosulfan II, 4,4'-DDD, Endrin aldehyde

E5KS3
alpha-BHC, beta-BHC, delta-BHC, Heptachlor, Heptachlor epoxide, 4,4'-DDE, 4,4'-DDD, Endrin aldehyde

E5KS4
delta-BHC, Heptachlor epoxide, 4,4'-DDD, Endrin ketone

E5KS5
alpha-BHC, Endosulfan sulfate

E5KS5DL
Endrin ketone

E5KS6
delta-BHC, gamma-BHC (Lindane), Endosulfan I, Dieldrin, Endrin

E5KS6MS
delta-BHC, Heptachlor epoxide, Endosulfan I, Endosulfan II, Endrin aldehyde

E5KS6MSD
delta-BHC, Heptachlor epoxide, Endosulfan I, Endosulfan II

PBLKS1
delta-BHC, Endosulfan I, Endrin ketone

PBLKS2
delta-BHC, Endrin ketone

PLCSS1
delta-BHC, Heptachlor, Aldrin, 4,4'-DDT, Endrin ketone

The relative percent difference between analyte results for the following pesticide samples is greater than 25%. Detected compounds are qualified "J".

E5KR6
Endosulfan sulfate

E5KR7
beta-BHC, Heptachlor, Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDT

E5KR7DL
Heptachlor epoxide, Dieldrin, Endrin, Endosulfan II, 4,4'-DDD, 4,4'-DDT

E5KR8
beta-BHC, Heptachlor, Heptachlor epoxide, Dieldrin, Endrin, Endosulfan II, Methoxychlor, Endrin ketone, alpha-Chlordane, gamma-Chlordane

E5KR8DL
Heptachlor epoxide, Dieldrin, Endrin, Endosulfan II, 4,4'-DDT, alpha-Chlordane, gamma-Chlordane

E5KR9
4,4'-DDT

E5KS0
delta-BHC, Heptachlor epoxide, 4,4'-DDE, 4,4'-DDT, alpha-Chlordane

E5KS1
Heptachlor, Heptachlor epoxide, Dieldrin, Endrin, Endosulfan II, 4,4'-DDD, 4,4'-DDT, alpha-Chlordane

E5KS2
Heptachlor epoxide, Dieldrin, 4,4'-DDE, 4,4'-DDT

E5KS5
beta-BHC, Heptachlor epoxide, Dieldrin, Endrin, Endosulfan II, Methoxychlor, Endrin ketone, alpha-Chlordane, gamma-Chlordane

E5KS5DL
Heptachlor epoxide, Dieldrin, Endrin, Endosulfan II, 4,4'-DDT, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

E5KS6
Heptachlor epoxide, 4,4'-DDE, Endosulfan II

E5KS6MS, E5KS6MSD
4,4'-DDE

PLCSS1, PLCSS2
Dieldrin

The following Aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

ALCSS1
Aroclor-1016, Aroclor-1260

ALCSS2
Aroclor-1260

The relative percent difference between analyte results for the following Aroclor samples is greater than 25%. Detected compounds are qualified "J".

E5KR7, E5KS1, E5KS2
Aroclor-1254

E5KR8, E5KS5
Aroclor-1254, Aroclor-1260

E5KS5DL, E5KS6MSD
Aroclor-1260

E5KS6MS
Aroclor-1016, Aroclor-1260

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide and Aroclor analyses was acceptable.

12. ADDITIONAL INFORMATION

TICs with no CAS Numbers were not reported in the EXES Sample Summary Report for the volatile and semivolatile fractions. Please refer to Word document "41647 SDG E5KR4 TIC Report" for the validated TIC results.

TICs with CAS Numbers were not reported in the EXES Sample Summary Report for the volatile fraction. Please refer to Word document "41647 SDG E5KR4 TIC Report" for the validated TIC results.

TICs with CAS Numbers were not reported in the EXES Sample Summary Report for the semivolatile method blank (SBLK03). Please refer to Word document "41647 SDG E5KR4 TIC Report" for the validated TIC results.

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.

E5KR7
Phenanthrene, Fluoranthene

E5KS5
bis(2-Ethylhexyl)phthalate

The following semivolatile samples have an Unknown TIC identified in the method blank at the same retention time as Unknown TICs in the samples but are identified as different compounds. A comparison of the chromatograms demonstrated that the same compound was present in the respective samples. Copies of the chromatograms are included with the validation report. See section 4 for blank qualifications.

Unknown @ 4.38

Unknown 1-Pentanamine
E5KR4

Unknown 3-Hydroxy-2-butanone, acetate
E5KR5, E5KR6

Unknown DL-3-Methyl-2-butanol, acetate
E5KS6

Unknown Acetic acid, 1-methylethyl ester
SBLK03

Unknown @ 6.79

Unknown Benzene, 1-chloro-4-methoxy-2-methyl-
E5KR4

Unkonwn Pyrazole-3-carobxamide, 4-nitro-
E5KR5

Unknown 6-Isopropylquinoline
SBLK03

Unknown @ 18.62

Unknown Dithianone
E5KR4, E5KS3, E5KS5

Unknown Phthalic anhydride
E5KR5, E5KR8, E5KS2, E5KS5DL

Unknown Benzo(c)thiophen-1(3H)-one, 3-(3-oxobenz...
E5KR6

Unknown Estra-1,3,5(10), 9(11)-tetraen-17-one, 3-
E5KR7

Unknown Ninhydrin
E5KR9

Unknown 2,6-Diphthalimidopyridine
E5KS1

Unknown 1H-Isoindole-1,3(2H)-dione, 2-(2-propyny...
E5KS4

Unknown Phthalic acid, monoethyl ester
SBLK03

1,2-Benzenedicarboxylic acid
SBLK32

Unknown @ 23.67

Unknown Phthalic anhydride
E5KR4, E5KR5, E5KR6, E5KS1, E5KS4, E5KS5, E5KS6

Unknown Silane, dimethylpentyloxyheptadecyloxy-
E5KR8

Unknown (2.2)Paracyclophane
E5KS0, SBLK03

Unknown 1H-Isoindole-1,3(H)-dione, 2-(2-propyny...
E5KS2

Unknown b-Homomorphinan-7-one,5,6,8,14-tetradehy...
E5KS5DL

Unknown Phthalic acid, monoethyl ester
SBLK32

The following pesticide 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.

E5KR7
4,4'-DDE, 4,4'-DDT

E5KR8, E5KS5
Dieldrin, 4,4'-DDE, 4,4'-DDT, alpha-Chlordane, gamma-Chlordane

The following pesticide samples were not included in the sample summary or superset. Form Is are included with the hard copy data package.

PLCSS1, PLCSS2

The following Aroclor 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.

E5KR7, E5KR8, E5KS1
Aroclor-1254

E5KS5
Aroclor-1254, Aroclor-1260

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KR4
Laboratory: ALS Laboratory

The following aroclor samples were not included in the sample summary or superset. Form Is are included with the hard copy data package.

ALCSS1, ALCSS2

Case Number: 41647
Site Name: Clyde Dump (OH)

SDG Number: E5KR4
Laboratory: ALS Laboratory

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: Christina Rice / TechLaw-ESAT
Date: September 29, 2011

Sample Summary Report

Case No:	41647	Contract:	EPW11037	SDG No:	E5KR4	Lab Code:	DATAC
Sample Number:	ABLKS1	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	33	ug/kg	1.0	U	U	Yes	
Aroclor-1221	33	ug/kg	1.0	U	U	Yes	
Aroclor-1232	33	ug/kg	1.0	U	U	Yes	
Aroclor-1242	33	ug/kg	1.0	U	U	Yes	
Aroclor-1248	33	ug/kg	1.0	U	U	Yes	
Aroclor-1254	33	ug/kg	1.0	U	U	Yes	
Aroclor-1260	33	ug/kg	1.0	U	U	Yes	
Aroclor-1262	33	ug/kg	1.0	U	U	Yes	
Aroclor-1268	33	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: ABLKS2	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	33	ug/kg	1.0	U	U	Yes	
Aroclor-1221	33	ug/kg	1.0	U	U	Yes	
Aroclor-1232	33	ug/kg	1.0	U	U	Yes	
Aroclor-1242	33	ug/kg	1.0	U	U	Yes	
Aroclor-1248	33	ug/kg	1.0	U	U	Yes	
Aroclor-1254	33	ug/kg	1.0	U	U	Yes	
Aroclor-1260	33	ug/kg	1.0	U	U	Yes	
Aroclor-1262	33	ug/kg	1.0	U	U	Yes	
Aroclor-1268	33	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR4	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-1	pH: 7.2	Sample Date: 08092011	Sample Time: 12:35:00
% Moisture : 10.2051		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	ug/kg	1.0	U	U	Yes	
Phenol	190	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	190	ug/kg	1.0	U	U	Yes	
2-Methylphenol	190	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	ug/kg	1.0	U	U	Yes	
Acetophenone	190	ug/kg	1.0	U	U	Yes	
4-Methylphenol	190	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	ug/kg	1.0	U	U	Yes	
Hexachloroethane	190	ug/kg	1.0	U	U	Yes	
Nitrobenzene	190	ug/kg	1.0	U	U	Yes	
Isophorone	190	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	190	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	190	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	190	ug/kg	1.0	U	U	Yes	
Naphthalene	190	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	190	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	190	ug/kg	1.0	U	U	Yes	
Caprolactam	190	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	190	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	190	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	190	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	370	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	190	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	ug/kg	1.0	U	U	Yes	
Acenaphthylene	190	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	370	ug/kg	1.0	U	U	Yes	
Acenaphthene	190	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	370	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	370	ug/kg	1.0	U	U	Yes	
Dibenzofuran	190	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	ug/kg	1.0	U	U	Yes	
Diethylphthalate	190	ug/kg	1.0	U	U	Yes	
Fluorene	190	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	190	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	370	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	370	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	190	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	190	ug/kg	1.0	U	U	Yes	
Atrazine	190	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	370	ug/kg	1.0	U	U	Yes	
Phenanthrene	24	ug/kg	1.0	J	J	Yes	
Anthracene	190	ug/kg	1.0	U	U	Yes	
Carbazole	190	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	7.2	ug/kg	1.0	J	J	Yes	
Fluoranthene	190	ug/kg	1.0	U	U	Yes	
Pyrene	13	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	190	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	15	ug/kg	1.0	J	J	Yes	
Chrysene	6.3	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	950	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	950	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	190	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	190	ug/kg	1.0	U	U	Yes	
Benzo(k)fluoranthene	190	ug/kg	1.0	U	U	Yes	
Benzo(a)pyrene	190	ug/kg	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	190	ug/kg	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	190	ug/kg	1.0	U	U	Yes	
Benzo(g,h,i)perylene	7.6	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	190	ug/kg	1.0	U	U	Yes	
1-(3-Methylbutyl)-2,3,4-trimethylbenzene	140	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	11000	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR4	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-1	pH: 7.2	Sample Date: 08092011	Sample Time: 12:35:00
% Moisture : 10.2051		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	37	ug/kg	1.0	U	U	Yes	
Aroclor-1221	37	ug/kg	1.0	U	U	Yes	
Aroclor-1232	37	ug/kg	1.0	U	U	Yes	
Aroclor-1242	37	ug/kg	1.0	U	U	Yes	
Aroclor-1248	37	ug/kg	1.0	U	U	Yes	
Aroclor-1254	37	ug/kg	1.0	U	U	Yes	
Aroclor-1260	37	ug/kg	1.0	U	U	Yes	
Aroclor-1262	37	ug/kg	1.0	U	U	Yes	
Aroclor-1268	37	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR4	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-1	pH:	Sample Date: 08092011	Sample Time: 12:35:00
% Moisture : 10.2051		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.9	ug/kg	1.0	U	U	Yes	
Chloromethane	4.9	ug/kg	1.0	U	U	Yes	
Vinyl chloride	4.9	ug/kg	1.0	U	U	Yes	
Bromomethane	4.9	ug/kg	1.0	U	U	Yes	
Chloroethane	4.9	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	4.9	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	4.9	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	ug/kg	1.0	U	U	Yes	
Acetone	4.5	ug/kg	1.0	J	J	Yes	
Carbon disulfide	4.9	ug/kg	1.0	U	U	Yes	
Methyl acetate	4.9	ug/kg	1.0	U	U	Yes	
Methylene chloride	0.64	ug/kg	1.0	J	J	Yes	
trans-1,2-Dichloroethene	4.9	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	4.9	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	4.9	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	4.9	ug/kg	1.0	U	U	Yes	
2-Butanone	9.7	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	4.9	ug/kg	1.0	U	U	Yes	
Chloroform	4.9	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	4.9	ug/kg	1.0	U	U	Yes	
Cyclohexane	4.9	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	4.9	ug/kg	1.0	U	U	Yes	
Benzene	4.9	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	4.9	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	97	ug/kg	1.0	U	R	Yes	
Trichloroethene	4.9	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	4.9	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	4.9	ug/kg	1.0	U	U	Yes	
Bromodichlorom	4.9	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.9	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	4.9	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	9.7	ug/kg	1.0	U	U	Yes	
Toluene	0.28	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	4.9	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	4.9	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	4.9	ug/kg	1.0	U	U	Yes	
2-Hexanone	9.7	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	4.9	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	4.9	ug/kg	1.0	U	U	Yes	
Chlorobenzene	4.9	ug/kg	1.0	U	U	Yes	
Ethylbenzene	4.9	ug/kg	1.0	U	U	Yes	
o-Xylene	4.9	ug/kg	1.0	U	U	Yes	
m,p-Xylene	4.9	ug/kg	1.0	U	U	Yes	
Styrene	4.9	ug/kg	1.0	U	U	Yes	
Bromoform	4.9	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	4.9	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	4.9	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	4.9	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	4.9	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	4.9	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	4.9	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	4.9	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	4.9	ug/kg	1.0	JB	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR4	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-1	pH: 7.2	Sample Date: 08092011	Sample Time: 12:35:00
% Moisture : 10.2051		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	ug/kg	1.0	U	U	Yes	
beta-BHC	1.9	ug/kg	1.0	U	U	Yes	
delta-BHC	1.9	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	1.9	ug/kg	1.0	U	U	Yes	
Heptachlor	1.9	ug/kg	1.0	U	U	Yes	
Aldrin	1.9	ug/kg	1.0	JP	U	Yes	
Heptachlor epoxide	1.9	ug/kg	1.0	JP	U	Yes	
Endosulfan I	1.9	ug/kg	1.0	U	U	Yes	
Dieldrin	3.7	ug/kg	1.0	U	U	Yes	
4,4'-DDE	3.7	ug/kg	1.0	U	U	Yes	
Endrin	3.7	ug/kg	1.0	U	U	Yes	
Endosulfan II	3.7	ug/kg	1.0	U	U	Yes	
4,4'-DDD	3.7	ug/kg	1.0	JP	U	Yes	
Endosulfan sulfate	3.7	ug/kg	1.0	U	U	Yes	
4,4'-DDT	3.7	ug/kg	1.0	JP	U	Yes	
Methoxychlor	19	ug/kg	1.0	JP	U	Yes	
Endrin ketone	3.7	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	3.7	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	1.9	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	1.9	ug/kg	1.0	JP	U	Yes	
Toxaphene	190	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR4RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-1	pH:	Sample Date: 08092011	Sample Time: 12:35:00
% Moisture : 10.2051		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.3	ug/kg	1.0	U	U	Yes	
Chloromethane	5.3	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.3	ug/kg	1.0	U	U	Yes	
Bromomethane	5.3	ug/kg	1.0	U	U	Yes	
Chloroethane	5.3	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.3	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.3	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	ug/kg	1.0	U	U	Yes	
Acetone	11	ug/kg	1.0	U	U	Yes	
Carbon disulfide	5.3	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.3	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.3	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.3	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.3	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.3	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.3	ug/kg	1.0	U	U	Yes	
2-Butanone	11	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.3	ug/kg	1.0	U	U	Yes	
Chloroform	5.3	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.3	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.3	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.3	ug/kg	1.0	U	U	Yes	
Benzene	5.3	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.3	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.3	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.3	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.3	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.3	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.3	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.3	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	11	ug/kg	1.0	U	U	Yes	
Toluene	0.50	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.3	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.3	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.3	ug/kg	1.0	U	U	Yes	
2-Hexanone	11	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.3	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.3	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.3	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.3	ug/kg	1.0	U	U	Yes	
o-Xylene	5.3	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.3	ug/kg	1.0	U	U	Yes	
Styrene	5.3	ug/kg	1.0	U	U	Yes	
Bromoform	5.3	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.3	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.3	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.3	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.3	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.3	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.3	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.3	ug/kg	1.0	JB	R	Yes	
1,2,3-Trichlorobenzene	5.3	ug/kg	1.0	JB	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR5	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-2	pH: 7.3	Sample Date: 08092011	Sample Time: 15:00:00
% Moisture : 13.0377		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	38	ug/kg	1.0	U	U	Yes	
Aroclor-1221	38	ug/kg	1.0	U	U	Yes	
Aroclor-1232	38	ug/kg	1.0	U	U	Yes	
Aroclor-1242	38	ug/kg	1.0	U	U	Yes	
Aroclor-1248	38	ug/kg	1.0	U	U	Yes	
Aroclor-1254	38	ug/kg	1.0	U	U	Yes	
Aroclor-1260	38	ug/kg	1.0	U	U	Yes	
Aroclor-1262	38	ug/kg	1.0	U	U	Yes	
Aroclor-1268	38	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR5	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-2	pH: 7.3	Sample Date: 08092011	Sample Time: 15:00:00
% Moisture : 13.0377		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	10	ug/kg	1.0	J	J	Yes	
Phenol	200	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	200	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	200	ug/kg	1.0	U	U	Yes	
2-Methylphenol	200	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	200	ug/kg	1.0	U	U	Yes	
Acetophenone	200	ug/kg	1.0	U	U	Yes	
4-Methylphenol	200	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	200	ug/kg	1.0	U	U	Yes	
Hexachloroethane	200	ug/kg	1.0	U	U	Yes	
Nitrobenzene	200	ug/kg	1.0	U	U	Yes	
Isophorone	200	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	200	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	200	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	200	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	200	ug/kg	1.0	U	U	Yes	
Naphthalene	200	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	200	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	200	ug/kg	1.0	U	U	Yes	
Caprolactam	200	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	200	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	200	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	200	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	200	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	200	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	200	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	200	ug/kg	1.0	U	U	Yes	
Acenaphthylene	200	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
Acenaphthene	200	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	380	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	380	ug/kg	1.0	U	U	Yes	
Dibenzofuran	200	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	200	ug/kg	1.0	U	U	Yes	
Diethylphthalate	200	ug/kg	1.0	U	U	Yes	
Fluorene	200	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	380	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	200	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	200	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	200	ug/kg	1.0	U	U	Yes	
Atrazine	200	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	380	ug/kg	1.0	U	U	Yes	
Phenanthrene	13	ug/kg	1.0	J	J	Yes	
Anthracene	200	ug/kg	1.0	U	U	Yes	
Carbazole	200	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	6.1	ug/kg	1.0	J	J	Yes	
Fluoranthene	200	ug/kg	1.0	U	UJ	Yes	
Pyrene	200	ug/kg	1.0	U	UJ	Yes	
Butylbenzylphthalate	200	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	200	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	7.1	ug/kg	1.0	J	J	Yes	
Chrysene	200	ug/kg	1.0	U	UJ	Yes	
Bis(2-ethylhexyl)	1000	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1000	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	200	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	200	ug/kg	1.0	U	U	Yes	
Benzo(k)fluoranthene	200	ug/kg	1.0	U	U	Yes	
Benzo(a)pyrene	200	ug/kg	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	200	ug/kg	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	200	ug/kg	1.0	U	U	Yes	
Benzo(g,h,i)perylene	200	ug/kg	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	200	ug/kg	1.0	U	U	Yes	
Total Alkanes	4700	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR5	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-2	pH: 7.3	Sample Date: 08092011	Sample Time: 15:00:00
% Moisture : 13.0377		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.0	ug/kg	1.0	U	U	Yes	
beta-BHC	2.0	ug/kg	1.0	U	U	Yes	
delta-BHC	0.12	ug/kg	1.0	JB	J	Yes	
gamma-BHC (Lindane)	2.0	ug/kg	1.0	U	U	Yes	
Heptachlor	2.0	ug/kg	1.0	U	U	Yes	
Aldrin	2.0	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2.0	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.0	ug/kg	1.0	U	U	Yes	
Dieldrin	3.8	ug/kg	1.0	U	U	Yes	
4,4'-DDE	3.8	ug/kg	1.0	U	U	Yes	
Endrin	3.8	ug/kg	1.0	U	U	Yes	
Endosulfan II	3.8	ug/kg	1.0	U	U	Yes	
4,4'-DDD	3.8	ug/kg	1.0	JP	U	Yes	
Endosulfan sulfate	3.8	ug/kg	1.0	U	U	Yes	
4,4'-DDT	3.8	ug/kg	1.0	U	U	Yes	
Methoxychlor	20	ug/kg	1.0	U	U	Yes	
Endrin ketone	3.8	ug/kg	1.0	JBP	U	Yes	
Endrin aldehyde	3.8	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
Toxaphene	200	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR5	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-2	pH:	Sample Date: 08092011	Sample Time: 15:00:00
% Moisture : 13.0377		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.6	ug/kg	1.0	U	U	Yes	
Chloromethane	4.6	ug/kg	1.0	U	U	Yes	
Vinyl chloride	4.6	ug/kg	1.0	U	U	Yes	
Bromomethane	4.6	ug/kg	1.0	U	U	Yes	
Chloroethane	4.6	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	4.6	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	ug/kg	1.0	U	U	Yes	
Acetone	8.1	ug/kg	1.0	J	J	Yes	
Carbon disulfide	1.1	ug/kg	1.0	J	J	Yes	
Methyl acetate	4.6	ug/kg	1.0	U	U	Yes	
Methylene chloride	4.6	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	4.6	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	4.6	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	
2-Butanone	9.3	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	4.6	ug/kg	1.0	U	U	Yes	
Chloroform	0.43	ug/kg	1.0	J	J	Yes	
1,1,1-Trichloroethane	4.6	ug/kg	1.0	U	R	Yes	
Cyclohexane	4.6	ug/kg	1.0	U	R	Yes	
Carbon tetrachloride	4.6	ug/kg	1.0	U	R	Yes	
Benzene	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dichloroethane	4.6	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	93	ug/kg	1.0	U	R	Yes	
Trichloroethene	4.6	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dichloropropane	4.6	ug/kg	1.0	U	R	Yes	
Bromodichlorom	4.6	ug/kg	1.0	U	R	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.6	ug/kg	1.0	U	R	Yes	
cis-1,3-Dichloropropene	4.6	ug/kg	1.0	U	R	Yes	
4-Methyl-2-Pentanone	9.3	ug/kg	1.0	U	R	Yes	
Toluene	0.26	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	4.6	ug/kg	1.0	U	R	Yes	
1,1,2-Trichloroethane	4.6	ug/kg	1.0	U	R	Yes	
Tetrachloroethene	4.6	ug/kg	1.0	U	R	Yes	
2-Hexanone	9.3	ug/kg	1.0	U	R	Yes	
Dibromochloromethane	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dibromoethane	4.6	ug/kg	1.0	U	R	Yes	
Chlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
Ethylbenzene	4.6	ug/kg	1.0	U	R	Yes	
o-Xylene	4.6	ug/kg	1.0	U	R	Yes	
m,p-Xylene	4.6	ug/kg	1.0	U	R	Yes	
Styrene	4.6	ug/kg	1.0	U	R	Yes	
Bromoform	4.6	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	4.6	ug/kg	1.0	U	R	Yes	
1,1,2,2-Tetrachloroethane	4.6	ug/kg	1.0	U	R	Yes	
1,3-Dichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	4.6	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR5RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-2	pH:	Sample Date: 08092011	Sample Time: 15:00:00
% Moisture : 13.0377		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.4	ug/kg	1.0	U	U	Yes	
Chloromethane	5.4	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.4	ug/kg	1.0	U	U	Yes	
Bromomethane	5.4	ug/kg	1.0	U	U	Yes	
Chloroethane	5.4	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.4	ug/kg	1.0	U	U	Yes	
1;1-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	ug/kg	1.0	U	U	Yes	
Acetone	11	ug/kg	1.0		J	Yes	
Carbon disulfide	2.6	ug/kg	1.0	J	J	Yes	
Methyl acetate	5.4	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.4	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	
2-Butanone	11	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.4	ug/kg	1.0	U	U	Yes	
Chloroform	0.43	ug/kg	1.0	J	J	Yes	
1,1,1-Trichloroethane	5.4	ug/kg	1.0	U	R	Yes	
Cyclohexane	5.4	ug/kg	1.0	U	R	Yes	
Carbon tetrachloride	5.4	ug/kg	1.0	U	R	Yes	
Benzene	5.4	ug/kg	1.0	U	R	Yes	
1,2-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.4	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	5.4	ug/kg	1.0	U	R	Yes	
1,2-Dichloropropane	5.4	ug/kg	1.0	U	R	Yes	
Bromodichlorom	5.4	ug/kg	1.0	U	R	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.4	ug/kg	1.0	U	R	Yes	
cis-1,3-Dichloropropene	5.4	ug/kg	1.0	U	R	Yes	
4-Methyl-2-Pentanone	11	ug/kg	1.0	U	R	Yes	
Toluene	0.89	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.4	ug/kg	1.0	U	R	Yes	
1,1,2-Trichloroethane	5.4	ug/kg	1.0	U	R	Yes	
Tetrachloroethene	5.4	ug/kg	1.0	U	R	Yes	
2-Hexanone	11	ug/kg	1.0	U	R	Yes	
Dibromochloromethane	5.4	ug/kg	1.0	U	R	Yes	
1,2-Dibromoethane	5.4	ug/kg	1.0	U	R	Yes	
Chlorobenzene	5.4	ug/kg	1.0	U	R	Yes	
Ethylbenzene	5.4	ug/kg	1.0	U	R	Yes	
o-Xylene	5.4	ug/kg	1.0	U	R	Yes	
m,p-Xylene	5.4	ug/kg	1.0	U	R	Yes	
Styrene	5.4	ug/kg	1.0	U	R	Yes	
Bromoform	5.4	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.4	ug/kg	1.0	U	R	Yes	
1,1,2,2-Tetrachloroethane	5.4	ug/kg	1.0	U	R	Yes	
1,3-Dichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.4	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR6	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-3	pH: 7.4	Sample Date: 08092011	Sample Time: 16:40:00
% Moisture : 21.8196		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.2	ug/kg	1.0	U	U	Yes	
beta-BHC	2.2	ug/kg	1.0	U	U	Yes	
delta-BHC	2.2	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	2.2	ug/kg	1.0	U	U	Yes	
Heptachlor	2.2	ug/kg	1.0	U	U	Yes	
Aldrin	2.2	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2.2	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.2	ug/kg	1.0	U	U	Yes	
Dieldrin	4.2	ug/kg	1.0	JP	U	Yes	
4,4'-DDE	21	ug/kg	1.0			Yes	
Endrin	4.2	ug/kg	1.0	U	U	Yes	
Endosulfan II	4.2	ug/kg	1.0	U	U	Yes	
4,4'-DDD	4.2	ug/kg	1.0	JP	U	Yes	
Endosulfan sulfate	1.4	ug/kg	1.0	JP	J	Yes	
4,4'-DDT	12	ug/kg	1.0			Yes	
Methoxychlor	22	ug/kg	1.0	JP	U	Yes	
Endrin ketone	4.2	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	4.2	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.2	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	0.48	ug/kg	1.0	J	J	Yes	
Toxaphene	220	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR6	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-3	pH:	Sample Date: 08092011	Sample Time: 16:40:00
% Moisture : 21.8196		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.4	ug/kg	1.0	U	U	Yes	
Chloromethane	6.4	ug/kg	1.0	U	U	Yes	
Vinyl chloride	6.4	ug/kg	1.0	U	U	Yes	
Bromomethane	6.4	ug/kg	1.0	U	U	Yes	
Chloroethane	6.4	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	6.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	6.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	ug/kg	1.0	U	U	Yes	
Acetone	13	ug/kg	1.0	U	U	Yes	
Carbon disulfide	6.4	ug/kg	1.0	U	U	Yes	
Methyl acetate	6.4	ug/kg	1.0	U	U	Yes	
Methylene chloride	6.4	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	6.4	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	6.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	6.4	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.4	ug/kg	1.0	U	U	Yes	
2-Butanone	13	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	6.4	ug/kg	1.0	U	U	Yes	
Chloroform	6.4	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.4	ug/kg	1.0	U	U	Yes	
Cyclohexane	6.4	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	6.4	ug/kg	1.0	U	U	Yes	
Benzene	6.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	6.4	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	130	ug/kg	1.0	U	R	Yes	
Trichloroethene	6.4	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	6.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	6.4	ug/kg	1.0	U	U	Yes	
Bromodichlorom	6.4	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	6.4	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	6.4	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	13	ug/kg	1.0	U	U	Yes	
Toluene	6.4	ug/kg	1.0	U	U	Yes	
trans-1,3-Dichloropropene	6.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	6.4	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	6.4	ug/kg	1.0	U	U	Yes	
2-Hexanone	13	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	6.4	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	6.4	ug/kg	1.0	U	U	Yes	
Chlorobenzene	6.4	ug/kg	1.0	U	U	Yes	
Ethylbenzene	6.4	ug/kg	1.0	U	U	Yes	
o-Xylene	6.4	ug/kg	1.0	U	U	Yes	
m,p-Xylene	6.4	ug/kg	1.0	U	U	Yes	
Styrene	6.4	ug/kg	1.0	U	U	Yes	
Bromoform	6.4	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	6.4	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	6.4	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	6.4	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	6.4	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	6.4	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	6.4	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	6.4	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	6.4	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR6	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-3	pH: 7.4	Sample Date: 08092011	Sample Time: 16:40:00
% Moisture : 21.8196		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	7.2	ug/kg	1.0	J	J	Yes	
Phenol	220	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	220	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	220	ug/kg	1.0	U	U	Yes	
2-Methylphenol	220	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	220	ug/kg	1.0	U	U	Yes	
Acetophenone	220	ug/kg	1.0	U	U	Yes	
4-Methylphenol	220	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	220	ug/kg	1.0	U	U	Yes	
Hexachloroethane	220	ug/kg	1.0	U	U	Yes	
Nitrobenzene	220	ug/kg	1.0	U	U	Yes	
Isophorone	220	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	220	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	220	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	220	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	220	ug/kg	1.0	U	U	Yes	
Naphthalene	220	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	220	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	220	ug/kg	1.0	U	U	Yes	
Caprolactam	220	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	220	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	9.1	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	220	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	220	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	220	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	220	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	220	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	420	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	220	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	220	ug/kg	1.0	U	U	Yes	
Acenaphthylene	220	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	420	ug/kg	1.0	U	U	Yes	
Acenaphthene	27	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	420	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	420	ug/kg	1.0	U	U	Yes	
Dibenzofuran	17	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	220	ug/kg	1.0	U	U	Yes	
Diethylphthalate	220	ug/kg	1.0	U	U	Yes	
Fluorene	19	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	220	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	420	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	420	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	220	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	220	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	220	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	220	ug/kg	1.0	U	U	Yes	
Atrazine	220	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	420	ug/kg	1.0	U	U	Yes	
Phenanthrene	52	ug/kg	1.0	J	J	Yes	
Anthracene	9.3	ug/kg	1.0	J	J	Yes	
Carbazole	220	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	220	ug/kg	1.0	U	U	Yes	
Fluoranthene	41	ug/kg	1.0	J	J	Yes	
Pyrene	26	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	220	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	220	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	15	ug/kg	1.0	J	J	Yes	
Chrysene	9.9	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	1100	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1100	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	220	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	14	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	220	ug/kg	1.0	U	U	Yes	
Benzo(a)pyrene	8.8	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	220	ug/kg	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	220	ug/kg	1.0	U	U	Yes	
Benzo(g,h,i)perylene	220	ug/kg	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	220	ug/kg	1.0	U	U	Yes	
5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan	1100	ug/kg	1.0	JN	NJ	Yes	
2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetram	210	ug/kg	1.0	JN	NJ	Yes	
1,5,9-Undecatriene, 2,6,10-trimethyl-, (Z)-	110	ug/kg	1.0	JN	NJ	Yes	
n-Hexadecanoic acid	160	ug/kg	1.0	JN	NJ	Yes	
Hop-22(29)-en-3.beta.-ol	430	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	1100	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR6	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-3	pH: 7.4	Sample Date: 08092011	Sample Time: 16:40:00
% Moisture : 21.8196		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	42	ug/kg	1.0	U	U	Yes	
Aroclor-1221	42	ug/kg	1.0	U	U	Yes	
Aroclor-1232	42	ug/kg	1.0	U	U	Yes	
Aroclor-1242	42	ug/kg	1.0	U	U	Yes	
Aroclor-1248	42	ug/kg	1.0	U	U	Yes	
Aroclor-1254	42	ug/kg	1.0	U	U	Yes	
Aroclor-1260	42	ug/kg	1.0	U	U	Yes	
Aroclor-1262	42	ug/kg	1.0	U	U	Yes	
Aroclor-1268	42	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR7	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-4	pH: 7.3	Sample Date: 08102011	Sample Time: 09:45:00
% Moisture : 17.0852		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.24	ug/kg	1.0	J	J	Yes	
beta-BHC	0.51	ug/kg	1.0	JP	J	Yes	
delta-BHC	1.9	ug/kg	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	ug/kg	1.0	U	U	Yes	
Heptachlor	0.79	ug/kg	1.0	JP	J	Yes	
Aldrin	1.9	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	11	ug/kg	1.0	P	J	Yes	
Endosulfan I	1.9	ug/kg	1.0	U	U	Yes	
Dieldrin	9.8	ug/kg	1.0	P	J	Yes	
4,4'-DDE	77	ug/kg	1.0	EP	J	Yes	
Endrin	12	ug/kg	1.0	P	J	Yes	
Endosulfan II	9.6	ug/kg	1.0	P	J	Yes	
4,4'-DDD	52	ug/kg	1.0			Yes	
Endosulfan sulfate	3.8	ug/kg	1.0	U	U	Yes	
4,4'-DDT	140	ug/kg	1.0	EP	J	Yes	
Methoxychlor	19	ug/kg	1.0	U	U	Yes	
Endrin ketone	3.8	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	3.8	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	1.9	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	1.9	ug/kg	1.0	U	U	Yes	
Toxaphene	190	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR7	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-4	pH: 7.3	Sample Date: 08102011	Sample Time: 09:45:00
% Moisture : 17.0852		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	38	ug/kg	1.0	U	U	Yes	
Aroclor-1221	38	ug/kg	1.0	U	U	Yes	
Aroclor-1232	38	ug/kg	1.0	U	U	Yes	
Aroclor-1242	38	ug/kg	1.0	U	U	Yes	
Aroclor-1248	38	ug/kg	1.0	U	U	Yes	
Aroclor-1254	1900	ug/kg	1.0	EP	J	Yes	
Aroclor-1260	38	ug/kg	1.0	U	U	Yes	
Aroclor-1262	38	ug/kg	1.0	U	U	Yes	
Aroclor-1268	38	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR7	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-4	pH: 7.3	Sample Date: 08102011	Sample Time: 09:45:00
% Moisture : 17.0852		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	ug/kg	1.0	JB	UJ	Yes	
Phenol	63	ug/kg	1.0	J	J	Yes	
Bis(2-chloroethyl)ether	190	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	190	ug/kg	1.0	U	U	Yes	
2-Methylphenol	190	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	ug/kg	1.0	U	U	Yes	
Acetophenone	190	ug/kg	1.0	U	U	Yes	
4-Methylphenol	160	ug/kg	1.0	J	J	Yes	
N-Nitroso-di-n-propylamine	190	ug/kg	1.0	U	U	Yes	
Hexachloroethane	190	ug/kg	1.0	U	U	Yes	
Nitrobenzene	190	ug/kg	1.0	U	U	Yes	
Isophorone	190	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	190	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	190	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	190	ug/kg	1.0	U	U	Yes	
Naphthalene	420	ug/kg	1.0			Yes	
4-Chloroaniline	190	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	190	ug/kg	1.0	U	U	Yes	
Caprolactam	190	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	150	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	190	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	40	ug/kg	1.0	J	J	Yes	
2-Chloronaphthalene	190	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	190	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	ug/kg	1.0	U	U	Yes	
Acenaphthylene	210	ug/kg	1.0			Yes	
3-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
Acenaphthene	110	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	380	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	380	ug/kg	1.0	U	U	Yes	
Dibenzofuran	200	ug/kg	1.0			Yes	
2,4-Dinitrotoluene	190	ug/kg	1.0	U	U	Yes	
Diethylphthalate	6.7	ug/kg	1.0	J	J	Yes	
Fluorene	270	ug/kg	1.0			Yes	
4-Chlorophenyl-phenylether	190	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	380	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	190	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	190	ug/kg	1.0	U	U	Yes	
Atrazine	190	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	380	ug/kg	1.0	U	U	Yes	
Phenanthrene	3600	ug/kg	1.0	E	J	Yes	
Anthracene	430	ug/kg	1.0			Yes	
Carbazole	400	ug/kg	1.0			Yes	
Di-n-butylphthalate	35	ug/kg	1.0	J	J	Yes	
Fluoranthene	5500	ug/kg	1.0	E	J	Yes	
Pyrene	2100	ug/kg	1.0		J	Yes	
Butylbenzylphthalate	14	ug/kg	1.0	J	J	Yes	
3,3'-Dichlorobenzidine	190	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	1200	ug/kg	1.0		J	Yes	
Chrysene	1300	ug/kg	1.0		J	Yes	
Bis(2-ethylhexyl)	330	ug/kg	1.0			Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	330	ug/kg	1.0			Yes	
Di-n-octylphthalate	190	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	1900	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	610	ug/kg	1.0			Yes	
Benzo(a)pyrene	1200	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	770	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	170	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	510	ug/kg	1.0			Yes	
2,3,4,6-Tetrachlorophenol	190	ug/kg	1.0	U	U	Yes	
Dibenzo[def,mno]chrysene	430	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	6400	ug/kg	1.0	J	J	Yes	
1-Methyl-4-ethyl 2-phenylsuccinate	390	ug/kg	1.0	JN	NJ	Yes	
Pyrene, 1-methyl-	170	ug/kg	1.0	JN	NJ	Yes	
Benzene, 4-ethyl-1,2-dimethyl-	270	ug/kg	1.0	JN	NJ	Yes	
Benzenesulfonamide, 4-methyl-	200	ug/kg	1.0	JN	NJ	Yes	
9,10-Dimethylanthracene	640	ug/kg	1.0	JN	NJ	Yes	
10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	460	ug/kg	1.0	JN	NJ	Yes	
Benzene, 2-ethyl-1,3-dimethyl-	180	ug/kg	1.0	JN	NJ	Yes	
Benzo[e]pyrene	730	ug/kg	1.0	JN	NJ	Yes	
1H-Cyclopropa[l]phenanthrene,1a,9b	490	ug/kg	1.0	JN	NJ	Yes	
Phenanthrene, 1-methyl-	230	ug/kg	1.0	JN	NJ	Yes	
Naphtho[1,2-b]thiophene	250	ug/kg	1.0	JN	NJ	Yes	
9H-Fluoren-9-one	370	ug/kg	1.0	JN	NJ	Yes	
9,10-Anthracenedione	530	ug/kg	1.0	JN	NJ	Yes	
Benzene, 2-ethyl-1,4-dimethyl-	300	ug/kg	1.0	JN	NJ	Yes	
Chrysene, 6-methyl-	210	ug/kg	1.0	JN	NJ	Yes	
Phenanthrene, 2-methyl-	500	ug/kg	1.0	JN	NJ	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR7	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-4	pH:	Sample Date: 08102011	Sample Time: 09:45:00
% Moisture : 17.0852		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.9	ug/kg	1.0	U	U	Yes	
Chloromethane	4.9	ug/kg	1.0	U	U	Yes	
Vinyl chloride	4.9	ug/kg	1.0	U	U	Yes	
Bromomethane	4.9	ug/kg	1.0	U	U	Yes	
Chloroethane	4.9	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	4.9	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	4.9	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	ug/kg	1.0	U	U	Yes	
Acetone	24	ug/kg	1.0			Yes	
Carbon disulfide	0.95	ug/kg	1.0	J	J	Yes	
Methyl acetate	4.9	ug/kg	1.0	U	U	Yes	
Methylene chloride	4.9	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	4.9	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	4.9	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	4.9	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	4.9	ug/kg	1.0	U	U	Yes	
2-Butanone	13	ug/kg	1.0			Yes	
Bromochloromet hane	4.9	ug/kg	1.0	U	U	Yes	
Chloroform	4.9	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	4.9	ug/kg	1.0	U	U	Yes	
Cyclohexane	4.9	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	4.9	ug/kg	1.0	U	U	Yes	
Benzene	0.98	ug/kg	1.0	J	J	Yes	
1,2-Dichloroethane	4.9	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	97	ug/kg	1.0	U	R	Yes	
Trichloroethene	4.9	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	1.2	ug/kg	1.0	J	J	Yes	
1,2-	4.9	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichloropropane	4.9	ug/kg	1.0	U	U	Yes	
Bromodichloromethane	4.9	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	4.9	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	9.7	ug/kg	1.0	U	U	Yes	
Toluene	0.56	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	4.9	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	4.9	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	4.9	ug/kg	1.0	U	U	Yes	
2-Hexanone	9.7	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	4.9	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	4.9	ug/kg	1.0	U	U	Yes	
Chlorobenzene	4.9	ug/kg	1.0	U	U	Yes	
Ethylbenzene	3.3	ug/kg	1.0	J	J	Yes	
o-Xylene	15	ug/kg	1.0			Yes	
m,p-Xylene	14	ug/kg	1.0			Yes	
Styrene	4.9	ug/kg	1.0	U	U	Yes	
Bromoform	4.9	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	0.70	ug/kg	1.0	J	J	Yes	
1,1,2,2-Tetrachloroethane	4.9	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	4.9	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	4.9	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	4.9	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	4.9	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	4.9	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	4.9	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR7DL	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.3	Sample Date: 08102011	Sample Time: 09:45:00
% Moisture : 17.0852		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	19	ug/kg	10.0	U	U	Yes	
beta-BHC	19	ug/kg	10.0	U	U	Yes	
delta-BHC	19	ug/kg	10.0	U	U	Yes	
gamma-BHC (Lindane)	19	ug/kg	10.0	U	U	Yes	
Heptachlor	19	ug/kg	10.0	U	U	Yes	
Aldrin	19	ug/kg	10.0	U	U	Yes	
Heptachlor epoxide	17	ug/kg	10.0	JDP	J	Yes	
Endosulfan I	19	ug/kg	10.0	U	U	Yes	
Dieldrin	20	ug/kg	10.0	JDP	J	Yes	
4,4'-DDE	100	ug/kg	10.0	D		Yes	
Endrin	14	ug/kg	10.0	JDP	J	Yes	
Endosulfan II	11	ug/kg	10.0	JDP	J	Yes	
4,4'-DDD	54	ug/kg	10.0	DP	J	Yes	
Endosulfan sulfate	38	ug/kg	10.0	U	U	Yes	
4,4'-DDT	78	ug/kg	10.0	DP	J	Yes	
Methoxychlor	190	ug/kg	10.0	U	U	Yes	
Endrin ketone	38	ug/kg	10.0	U	U	Yes	
Endrin aldehyde	38	ug/kg	10.0	JDP	U	Yes	
alpha-Chlordane	19	ug/kg	10.0	U	U	Yes	
gamma-Chlordane	19	ug/kg	10.0	U	U	Yes	
Toxaphene	1900	ug/kg	10.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR7DL	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.3	Sample Date: 08102011	Sample Time: 09:45:00
% Moisture : 17.0852		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	380	ug/kg	10.0	U	U	Yes	
Aroclor-1221	380	ug/kg	10.0	U	U	Yes	
Aroclor-1232	380	ug/kg	10.0	U	U	Yes	
Aroclor-1242	380	ug/kg	10.0	U	U	Yes	
Aroclor-1248	380	ug/kg	10.0	U	U	Yes	
Aroclor-1254	3000	ug/kg	10.0	D		Yes	
Aroclor-1260	380	ug/kg	10.0	U	U	Yes	
Aroclor-1262	380	ug/kg	10.0	U	U	Yes	
Aroclor-1268	380	ug/kg	10.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR7DL	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-4	pH: 7.3	Sample Date: 08102011	Sample Time: 09:45:00
% Moisture : 17.0852		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	1900	ug/kg	10.0	U	U	Yes	
Phenol	1900	ug/kg	10.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	1900	ug/kg	10.0	U	U	Yes	
2-Chlorophenol	1900	ug/kg	10.0	U	U	Yes	
2-Methylphenol	1900	ug/kg	10.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	1900	ug/kg	10.0	U	U	Yes	
Acetophenone	1900	ug/kg	10.0	U	U	Yes	
4-Methylphenol	1900	ug/kg	10.0	U	U	Yes	
N-Nitroso-di-n-propylamine	1900	ug/kg	10.0	U	U	Yes	
Hexachloroethane	1900	ug/kg	10.0	U	U	Yes	
Nitrobenzene	1900	ug/kg	10.0	U	U	Yes	
Isophorone	1900	ug/kg	10.0	U	U	Yes	
2-Nitrophenol	1900	ug/kg	10.0	U	U	Yes	
2,4-Dimethylphenol	1900	ug/kg	10.0	U	U	Yes	
Bis(2-chloroethoxy)methane	1900	ug/kg	10.0	U	U	Yes	
2,4-Dichlorophenol	1900	ug/kg	10.0	U	U	Yes	
Naphthalene	410	ug/kg	10.0	JD	J	Yes	
4-Chloroaniline	1900	ug/kg	10.0	U	U	Yes	
Hexachlorobutadiene	1900	ug/kg	10.0	U	U	Yes	
Caprolactam	1900	ug/kg	10.0	U	U	Yes	
4-Chloro-3-methylphenol	1900	ug/kg	10.0	U	U	Yes	
2-Methylnaphthalene	120	ug/kg	10.0	JD	J	Yes	
Hexachlorocyclopentadiene	1900	ug/kg	10.0	U	U	Yes	
2,4,6-Trichlorophenol	1900	ug/kg	10.0	U	U	Yes	
2,4,5-Trichlorophenol	1900	ug/kg	10.0	U	U	Yes	
1,1'-Biphenyl	1900	ug/kg	10.0	U	U	Yes	
2-Chloronaphthalene	1900	ug/kg	10.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	3800	ug/kg	10.0	U	U	Yes	
Dimethylphthalate	1900	ug/kg	10.0	U	U	Yes	
2,6-Dinitrotoluene	1900	ug/kg	10.0	U	U	Yes	
Acenaphthylene	190	ug/kg	10.0	JD	J	Yes	
3-Nitroaniline	3800	ug/kg	10.0	U	U	Yes	
Acenaphthene	110	ug/kg	10.0	JD	J	Yes	
2,4-Dinitrophenol	3800	ug/kg	10.0	U	U	Yes	
4-Nitrophenol	3800	ug/kg	10.0	U	U	Yes	
Dibenzofuran	190	ug/kg	10.0	JD	J	Yes	
2,4-Dinitrotoluene	1900	ug/kg	10.0	U	U	Yes	
Diethylphthalate	1900	ug/kg	10.0	U	U	Yes	
Fluorene	280	ug/kg	10.0	JD	J	Yes	
4-Chlorophenyl-phenylether	1900	ug/kg	10.0	U	U	Yes	
4-Nitroaniline	3800	ug/kg	10.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	3800	ug/kg	10.0	U	U	Yes	
N-Nitrosodiphenylamine	1900	ug/kg	10.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	1900	ug/kg	10.0	U	U	Yes	
4-Bromophenyl-phenylether	1900	ug/kg	10.0	U	U	Yes	
Hexachlorobenzene	1900	ug/kg	10.0	U	U	Yes	
Atrazine	1900	ug/kg	10.0	U	U	Yes	
Pentachlorophenol	3800	ug/kg	10.0	U	U	Yes	
Phenanthrene	2600	ug/kg	10.0	D		Yes	
Anthracene	390	ug/kg	10.0	JD	J	Yes	
Carbazole	400	ug/kg	10.0	JD	J	Yes	
Di-n-butylphthalate	75	ug/kg	10.0	JD	J	Yes	
Fluoranthene	3500	ug/kg	10.0	D		Yes	
Pyrene	1900	ug/kg	10.0	D	J	Yes	
Butylbenzylphthalate	1900	ug/kg	10.0	U	U	Yes	
3,3'-Dichlorobenzidine	1900	ug/kg	10.0	U	U	Yes	
Benzo(a)anthracene	1200	ug/kg	10.0	JD	J	Yes	
Chrysene	1100	ug/kg	10.0	JD	J	Yes	
Bis(2-ethylhexyl)	420	ug/kg	10.0	JD	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	420	ug/kg	10.0	JD	J	Yes	
Di-n-octylphthalate	1900	ug/kg	10.0	U	U	Yes	
Benzo(b)fluoranthene	1600	ug/kg	10.0	JD	J	Yes	
Benzo(k)fluoranthene	480	ug/kg	10.0	JD	J	Yes	
Benzo(a)pyrene	1000	ug/kg	10.0	JD	J	Yes	
Indeno(1,2,3-cd)pyrene	980	ug/kg	10.0	JD	J	Yes	
Dibenzo(a,h)anthracene	230	ug/kg	10.0	JD	J	Yes	
Benzo(g,h,i)perylene	700	ug/kg	10.0	JD	J	Yes	
2,3,4,6-Tetrachlorophenol	1900	ug/kg	10.0	U	U	Yes	
Total Alkanes	780	ug/kg	10.0	JD	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR8	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-5	pH: 7.4	Sample Date: 08102011	Sample Time: 10:00:00
% Moisture : 13.8842		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	ug/kg	1.0	U	U	Yes	
beta-BHC	0.80	ug/kg	1.0	JP	J	Yes	
delta-BHC	1.9	ug/kg	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.23	ug/kg	1.0	J	J	Yes	
Heptachlor	1.1	ug/kg	1.0	JP	J	Yes	
Aldrin	1.9	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	20	ug/kg	1.0	P	J	Yes	
Endosulfan I	1.9	ug/kg	1.0	U	U	Yes	
Dieldrin	110	ug/kg	1.0	EP	J	Yes	
4,4'-DDE	120	ug/kg	1.0	E	J	Yes	
Endrin	26	ug/kg	1.0	P	J	Yes	
Endosulfan II	24	ug/kg	1.0	P	J	Yes	
4,4'-DDD	3.7	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	3.7	ug/kg	1.0	JP	U	Yes	
4,4'-DDT	340	ug/kg	1.0	E	J	Yes	
Methoxychlor	5.5	ug/kg	1.0	JP	J	Yes	
Endrin ketone	2.7	ug/kg	1.0	JBP	J	Yes	
Endrin aldehyde	44	ug/kg	1.0			Yes	
alpha-Chlordane	54	ug/kg	1.0	EP	J	Yes	
gamma-Chlordane	53	ug/kg	1.0	EP	J	Yes	
Toxaphene	190	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR8	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-5	pH: 7.4	Sample Date: 08102011	Sample Time: 10:00:00
% Moisture : 13.8842		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	37	ug/kg	1.0	U	U	Yes	
Aroclor-1221	37	ug/kg	1.0	U	U	Yes	
Aroclor-1232	37	ug/kg	1.0	U	U	Yes	
Aroclor-1242	37	ug/kg	1.0	U	U	Yes	
Aroclor-1248	37	ug/kg	1.0	U	U	Yes	
Aroclor-1254	3000	ug/kg	1.0	EP	J	Yes	
Aroclor-1260	350	ug/kg	1.0	P	J	Yes	
Aroclor-1262	37	ug/kg	1.0	U	U	Yes	
Aroclor-1268	37	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR8	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-5	pH:	Sample Date: 08102011	Sample Time: 10:00:00
% Moisture : 13.8842		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.6	ug/kg	1.0	U	U	Yes	
Chloromethane	5.6	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.6	ug/kg	1.0	U	U	Yes	
Bromomethane	5.6	ug/kg	1.0	U	U	Yes	
Chloroethane	5.6	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.6	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.6	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	ug/kg	1.0	U	U	Yes	
Acetone	5.7	ug/kg	1.0	J	J	Yes	
Carbon disulfide	5.6	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.6	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.6	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.6	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.6	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.6	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.6	ug/kg	1.0	U	U	Yes	
2-Butanone	11	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.6	ug/kg	1.0	U	U	Yes	
Chloroform	5.6	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.6	ug/kg	1.0	U	R	Yes	
Cyclohexane	5.6	ug/kg	1.0	U	R	Yes	
Carbon tetrachloride	5.6	ug/kg	1.0	U	R	Yes	
Benzene	5.6	ug/kg	1.0	U	R	Yes	
1,2-Dichloroethane	5.6	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.6	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	5.6	ug/kg	1.0	U	R	Yes	
1,2-Dichloropropane	5.6	ug/kg	1.0	U	R	Yes	
Bromodichlorom	5.6	ug/kg	1.0	U	R	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.6	ug/kg	1.0	U	R	Yes	
cis-1,3-Dichloropropene	5.6	ug/kg	1.0	U	R	Yes	
4-Methyl-2-Pentanone	11	ug/kg	1.0	U	R	Yes	
Toluene	0.28	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.6	ug/kg	1.0	U	R	Yes	
1,1,2-Trichloroethane	5.6	ug/kg	1.0	U	R	Yes	
Tetrachloroethene	5.6	ug/kg	1.0	U	R	Yes	
2-Hexanone	11	ug/kg	1.0	U	R	Yes	
Dibromochloromethane	5.6	ug/kg	1.0	U	R	Yes	
1,2-Dibromoethane	5.6	ug/kg	1.0	U	R	Yes	
Chlorobenzene	5.6	ug/kg	1.0	U	R	Yes	
Ethylbenzene	5.6	ug/kg	1.0	U	R	Yes	
o-Xylene	5.6	ug/kg	1.0	U	R	Yes	
m,p-Xylene	5.6	ug/kg	1.0	U	R	Yes	
Styrene	5.6	ug/kg	1.0	U	R	Yes	
Bromoform	5.6	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.6	ug/kg	1.0	U	R	Yes	
1,1,2,2-Tetrachloroethane	5.6	ug/kg	1.0	U	R	Yes	
1,3-Dichlorobenzene	5.6	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.6	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.6	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.6	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.6	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.6	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR8	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-5	pH: 7.4	Sample Date: 08102011	Sample Time: 10:00:00
% Moisture : 13.8842		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	ug/kg	1.0	JB	UJ	Yes	
Phenol	190	ug/kg	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	190	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	190	ug/kg	1.0	U	U	Yes	
2-Methylphenol	190	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	ug/kg	1.0	U	U	Yes	
Acetophenone	190	ug/kg	1.0	U	U	Yes	
4-Methylphenol	190	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	ug/kg	1.0	U	U	Yes	
Hexachloroethane	190	ug/kg	1.0	U	U	Yes	
Nitrobenzene	190	ug/kg	1.0	U	U	Yes	
Isophorone	190	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	190	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	190	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	190	ug/kg	1.0	U	U	Yes	
Naphthalene	8.3	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	190	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	190	ug/kg	1.0	U	U	Yes	
Caprolactam	190	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	190	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	190	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	190	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	190	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	ug/kg	1.0	U	U	Yes	
Acenaphthylene	8.5	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	360	ug/kg	1.0	U	U	Yes	
Acenaphthene	8.7	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	360	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	360	ug/kg	1.0	U	U	Yes	
Dibenzofuran	190	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	ug/kg	1.0	U	U	Yes	
Diethylphthalate	190	ug/kg	1.0	U	U	Yes	
Fluorene	8.4	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	190	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	360	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	360	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	190	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	190	ug/kg	1.0	U	U	Yes	
Atrazine	190	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	360	ug/kg	1.0	U	U	Yes	
Phenanthrene	88	ug/kg	1.0	J	J	Yes	
Anthracene	21	ug/kg	1.0	J	J	Yes	
Carbazole	15	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	9.3	ug/kg	1.0	J	J	Yes	
Fluoranthene	160	ug/kg	1.0	J	J	Yes	
Pyrene	100	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	190	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	72	ug/kg	1.0	J	J	Yes	
Chrysene	74	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	140	ug/kg	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	140	ug/kg	1.0	J	J	Yes	
Di-n-octylphthalate	190	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	120	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	33	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	73	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	65	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	16	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	37	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	190	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	240	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,2',3,3',4,6-Hexachloro-	76	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,2',3,4,5,5'-hexachloro-	120	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,3,3',4,4',5'-hexachloro-	130	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,2',3,3',6-pentachloro-	150	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	1300	ug/kg	1.0	J	J	Yes	
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	120	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	250	ug/kg	1.0	JN	NJ	Yes	
2,2',3,4,6'-Pentachloro-1,1'-biphenyl	77	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,2',3,3',5-pentachloro-	230	ug/kg	1.0	JN	NJ	Yes	
2,3',4,4',5',6-Hexachloro-1,1'-biphenyl	220	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	180	ug/kg	1.0	JN	NJ	Yes	
Cholestane-3,6-diol, (3.beta.,5.alpha.,	320	ug/kg	1.0	JN	NJ	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR8DL	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.4	Sample Date: 08102011	Sample Time: 10:00:00
% Moisture : 13.8842		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	370	ug/kg	10.0	U	U	Yes	
Aroclor-1221	370	ug/kg	10.0	U	U	Yes	
Aroclor-1232	370	ug/kg	10.0	U	U	Yes	
Aroclor-1242	370	ug/kg	10.0	U	U	Yes	
Aroclor-1248	370	ug/kg	10.0	U	U	Yes	
Aroclor-1254	4400	ug/kg	10.0	D		Yes	
Aroclor-1260	370	ug/kg	10.0	U	U	Yes	
Aroclor-1262	370	ug/kg	10.0	U	U	Yes	
Aroclor-1268	370	ug/kg	10.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR8DL	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-5	pH: 7.4	Sample Date: 08102011	Sample Time: 10:00:00
% Moisture : 13.8842		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	19	ug/kg	10.0	U	U	Yes	
beta-BHC	19	ug/kg	10.0	JDP	U	Yes	
delta-BHC	19	ug/kg	10.0	U	U	Yes	
gamma-BHC (Lindane)	19	ug/kg	10.0	U	U	Yes	
Heptachlor	19	ug/kg	10.0	U	U	Yes	
Aldrin	19	ug/kg	10.0	U	U	Yes	
Heptachlor epoxide	31	ug/kg	10.0	DP	J	Yes	
Endosulfan I	19	ug/kg	10.0	U	U	Yes	
Dieldrin	110	ug/kg	10.0	DP	J	Yes	
4,4'-DDE	150	ug/kg	10.0	D		Yes	
Endrin	37	ug/kg	10.0	JDP	J	Yes	
Endosulfan II	29	ug/kg	10.0	JDP	J	Yes	
4,4'-DDD	37	ug/kg	10.0	U	U	Yes	
Endosulfan sulfate	37	ug/kg	10.0	U	U	Yes	
4,4'-DDT	120	ug/kg	10.0	DP	J	Yes	
Methoxychlor	190	ug/kg	10.0	U	U	Yes	
Endrin ketone	37	ug/kg	10.0	JBDP	U	Yes	
Endrin aldehyde	37	ug/kg	10.0	U	U	Yes	
alpha-Chlordane	51	ug/kg	10.0	DP	J	Yes	
gamma-Chlordane	65	ug/kg	10.0	DP	J	Yes	
Toxaphene	1900	ug/kg	10.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR8RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-5	pH:	Sample Date: 08102011	Sample Time: 10:00:00
% Moisture : 13.8842		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.2	ug/kg	1.0	U	U	Yes	
Chloromethane	5.2	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.2	ug/kg	1.0	U	U	Yes	
Bromomethane	5.2	ug/kg	1.0	U	U	Yes	
Chloroethane	5.2	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.2	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	ug/kg	1.0	U	U	Yes	
Acetone	10	ug/kg	1.0	U	U	Yes	
Carbon disulfide	5.2	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.2	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.2	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.2	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	
2-Butanone	10	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.2	ug/kg	1.0	U	U	Yes	
Chloroform	5.2	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.2	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.2	ug/kg	1.0	U	U	Yes	
Benzene	5.2	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.2	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.2	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.2	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.2	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.2	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/kg	1.0	U	U	Yes	
Toluene	0.51	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	0.18	ug/kg	1.0	J	J	Yes	
2-Hexanone	10	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.2	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.2	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.2	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.2	ug/kg	1.0	U	U	Yes	
o-Xylene	5.2	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.2	ug/kg	1.0	U	U	Yes	
Styrene	5.2	ug/kg	1.0	U	U	Yes	
Bromoform	5.2	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.2	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.2	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.2	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR9	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-6	pH: 7.4	Sample Date: 08102011	Sample Time: 10:50:00
% Moisture : 19.565		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.0	ug/kg	1.0	U	U	Yes	
beta-BHC	2.0	ug/kg	1.0	U	U	Yes	
delta-BHC	2.0	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	2.0	ug/kg	1.0	U	U	Yes	
Heptachlor	2.0	ug/kg	1.0	U	U	Yes	
Aldrin	2.0	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2.0	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.0	ug/kg	1.0	U	U	Yes	
Dieldrin	4.0	ug/kg	1.0	U	U	Yes	
4,4'-DDE	4.0	ug/kg	1.0	JP	U	Yes	
Endrin	4.0	ug/kg	1.0	U	U	Yes	
Endosulfan II	4.0	ug/kg	1.0	U	U	Yes	
4,4'-DDD	4.0	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	4.0	ug/kg	1.0	U	U	Yes	
4,4'-DDT	1.1	ug/kg	1.0	JP	J	Yes	
Methoxychlor	20	ug/kg	1.0	JP	U	Yes	
Endrin ketone	0.95	ug/kg	1.0	JB	J	Yes	
Endrin aldehyde	4.0	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
Toxaphene	200	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR9	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-6	pH:	Sample Date: 08102011	Sample Time: 10:50:00
% Moisture : 19.565		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.4	ug/kg	1.0	U	U	Yes	
Chloromethane	5.4	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.4	ug/kg	1.0	U	U	Yes	
Bromomethane	5.4	ug/kg	1.0	U	U	Yes	
Chloroethane	5.4	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	ug/kg	1.0	U	U	Yes	
Acetone	18	ug/kg	1.0			Yes	
Carbon disulfide	5.4	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.4	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.4	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	0.83	ug/kg	1.0	J	J	Yes	
Methyl tert-butyl ether	5.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.2	ug/kg	1.0			Yes	
2-Butanone	11	ug/kg	1.0	J	J	Yes	
Bromochloromet hane	5.4	ug/kg	1.0	U	U	Yes	
Chloroform	0.42	ug/kg	1.0	J	J	Yes	
1,1,1-Trichloroethane	5.4	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.4	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.4	ug/kg	1.0	U	U	Yes	
Benzene	5.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	
Trichloroethene	6.8	ug/kg	1.0			Yes	
Methylcyclohexa ne	5.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.4	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.4	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.4	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.4	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	11	ug/kg	1.0	U	U	Yes	
Toluene	0.66	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.4	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	0.56	ug/kg	1.0	J	J	Yes	
2-Hexanone	11	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.4	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.4	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.4	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.4	ug/kg	1.0	U	U	Yes	
o-Xylene	5.4	ug/kg	1.0	U	U	Yes	
m,p-Xylene	0.22	ug/kg	1.0	J	J	Yes	
Styrene	5.4	ug/kg	1.0	U	U	Yes	
Bromoform	5.4	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	5.4	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.4	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.4	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR9	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-6	pH: 7.4	Sample Date: 08102011	Sample Time: 10:50:00
% Moisture : 19.565		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/kg	1.0	JB	U	Yes	
Phenol	210	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	210	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	210	ug/kg	1.0	U	U	Yes	
2-Methylphenol	210	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	210	ug/kg	1.0	U	U	Yes	
Acetophenone	210	ug/kg	1.0	U	U	Yes	
4-Methylphenol	210	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	210	ug/kg	1.0	U	U	Yes	
Hexachloroethane	210	ug/kg	1.0	U	U	Yes	
Nitrobenzene	210	ug/kg	1.0	U	U	Yes	
Isophorone	210	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	210	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	210	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	210	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	210	ug/kg	1.0	U	U	Yes	
Naphthalene	9.6	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	210	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	210	ug/kg	1.0	U	U	Yes	
Caprolactam	210	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	210	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	8.8	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	210	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	210	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	210	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	210	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	210	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	400	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	210	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	210	ug/kg	1.0	U	U	Yes	
Acenaphthylene	210	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	400	ug/kg	1.0	U	U	Yes	
Acenaphthene	210	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	400	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	400	ug/kg	1.0	U	U	Yes	
Dibenzofuran	8.6	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	210	ug/kg	1.0	U	U	Yes	
Diethylphthalate	210	ug/kg	1.0	U	U	Yes	
Fluorene	10	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	210	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	400	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	400	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	210	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	210	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	210	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	210	ug/kg	1.0	U	U	Yes	
Atrazine	210	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	400	ug/kg	1.0	U	U	Yes	
Phenanthrene	160	ug/kg	1.0	J	J	Yes	
Anthracene	18	ug/kg	1.0	J	J	Yes	
Carbazole	17	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	7.0	ug/kg	1.0	J	J	Yes	
Fluoranthene	210	ug/kg	1.0			Yes	
Pyrene	160	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	210	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	210	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	76	ug/kg	1.0	J	J	Yes	
Chrysene	92	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	16	ug/kg	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	16	ug/kg	1.0	J	J	Yes	
Di-n-octylphthalate	210	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	150	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	42	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	88	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	92	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	25	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	48	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	210	ug/kg	1.0	U	U	Yes	
Total Alkanes	370	ug/kg	1.0	J	J	Yes	
Dodecanoic acid	81	ug/kg	1.0	JN	NJ	Yes	
9-Octadecenamide, (Z)-	210	ug/kg	1.0	JN	NJ	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KR9	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-6	pH: 7.4	Sample Date: 08102011	Sample Time: 10:50:00
% Moisture : 19.565		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	40	ug/kg	1.0	U	U	Yes	
Aroclor-1221	40	ug/kg	1.0	U	U	Yes	
Aroclor-1232	40	ug/kg	1.0	U	U	Yes	
Aroclor-1242	40	ug/kg	1.0	U	U	Yes	
Aroclor-1248	40	ug/kg	1.0	U	U	Yes	
Aroclor-1254	40	ug/kg	1.0	U	U	Yes	
Aroclor-1260	40	ug/kg	1.0	U	U	Yes	
Aroclor-1262	40	ug/kg	1.0	U	U	Yes	
Aroclor-1268	40	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS0	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-7	pH:	Sample Date: 08102011	Sample Time: 11:10:00
% Moisture : 8.5806		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.7	ug/kg	1.0	U	U	Yes	
Chloromethane	4.7	ug/kg	1.0	U	U	Yes	
Vinyl chloride	4.7	ug/kg	1.0	U	U	Yes	
Bromomethane	4.7	ug/kg	1.0	U	U	Yes	
Chloroethane	4.7	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	4.7	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	4.7	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	ug/kg	1.0	U	U	Yes	
Acetone	9.3	ug/kg	1.0	U	U	Yes	
Carbon disulfide	4.7	ug/kg	1.0	U	U	Yes	
Methyl acetate	4.7	ug/kg	1.0	U	U	Yes	
Methylene chloride	1.2	ug/kg	1.0	J	J	Yes	
trans-1,2-Dichloroethene	4.7	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	4.7	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	4.7	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	4.7	ug/kg	1.0	U	U	Yes	
2-Butanone	9.3	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	4.7	ug/kg	1.0	U	U	Yes	
Chloroform	4.7	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	4.7	ug/kg	1.0	U	R	Yes	
Cyclohexane	4.7	ug/kg	1.0	U	R	Yes	
Carbon tetrachloride	4.7	ug/kg	1.0	U	R	Yes	
Benzene	4.7	ug/kg	1.0	U	R	Yes	
1,2-Dichloroethane	4.7	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	93	ug/kg	1.0	U	R	Yes	
Trichloroethene	4.7	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	4.7	ug/kg	1.0	U	R	Yes	
1,2-Dichloropropane	4.7	ug/kg	1.0	U	R	Yes	
Bromodichlorom	4.7	ug/kg	1.0	U	R	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.7	ug/kg	1.0	U	R	Yes	
cis-1,3-Dichloropropene	4.7	ug/kg	1.0	U	R	Yes	
4-Methyl-2-Pentanone	9.3	ug/kg	1.0	U	R	Yes	
Toluene	0.33	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	4.7	ug/kg	1.0	U	R	Yes	
1,1,2-Trichloroethane	4.7	ug/kg	1.0	U	R	Yes	
Tetrachloroethene	0.31	ug/kg	1.0	J	J	Yes	
2-Hexanone	9.3	ug/kg	1.0	U	R	Yes	
Dibromochloromethane	4.7	ug/kg	1.0	U	R	Yes	
1,2-Dibromoethane	4.7	ug/kg	1.0	U	R	Yes	
Chlorobenzene	4.7	ug/kg	1.0	U	R	Yes	
Ethylbenzene	4.7	ug/kg	1.0	U	R	Yes	
o-Xylene	4.7	ug/kg	1.0	U	R	Yes	
m,p-Xylene	4.7	ug/kg	1.0	U	R	Yes	
Styrene	4.7	ug/kg	1.0	U	R	Yes	
Bromoform	4.7	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	4.7	ug/kg	1.0	U	R	Yes	
1,1,2,2-Tetrachloroethane	4.7	ug/kg	1.0	U	R	Yes	
1,3-Dichlorobenzene	4.7	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	4.7	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	4.7	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	4.7	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	4.7	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	4.7	ug/kg	1.0	U	R	Yes	
Total Alkanes			1.0	J		Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS0	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-7	pH: 7.4	Sample Date: 08102011	Sample Time: 11:10:00
% Moisture : 8.5806		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	180	ug/kg	1.0	JB	UJ	Yes	
Phenol	180	ug/kg	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	180	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	180	ug/kg	1.0	U	U	Yes	
2-Methylphenol	180	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	180	ug/kg	1.0	U	U	Yes	
Acetophenone	180	ug/kg	1.0	U	U	Yes	
4-Methylphenol	180	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	180	ug/kg	1.0	U	U	Yes	
Hexachloroethane	180	ug/kg	1.0	U	U	Yes	
Nitrobenzene	180	ug/kg	1.0	U	U	Yes	
Isophorone	180	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	180	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	180	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	180	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	180	ug/kg	1.0	U	U	Yes	
Naphthalene	22	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	180	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	180	ug/kg	1.0	U	U	Yes	
Caprolactam	180	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	180	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	14	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	180	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	180	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	180	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	180	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	180	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	340	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	180	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	180	ug/kg	1.0	U	U	Yes	
Acenaphthylene	16	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	340	ug/kg	1.0	U	U	Yes	
Acenaphthene	79	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	340	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	340	ug/kg	1.0	U	U	Yes	
Dibenzofuran	51	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	180	ug/kg	1.0	U	U	Yes	
Diethylphthalate	180	ug/kg	1.0	U	U	Yes	
Fluorene	91	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	180	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	340	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	340	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	180	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	180	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	180	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	180	ug/kg	1.0	U	U	Yes	
Atrazine	180	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	340	ug/kg	1.0	U	U	Yes	
Phenanthrene	700	ug/kg	1.0			Yes	
Anthracene	190	ug/kg	1.0			Yes	
Carbazole	90	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	5.9	ug/kg	1.0	J	J	Yes	
Fluoranthene	870	ug/kg	1.0		J	Yes	
Pyrene	460	ug/kg	1.0		J	Yes	
Butylbenzylphthalate	180	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	180	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	310	ug/kg	1.0		J	Yes	
Chrysene	230	ug/kg	1.0		J	Yes	
Bis(2-ethylhexyl)	42	ug/kg	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	42	ug/kg	1.0	J	J	Yes	
Di-n-octylphthalate	180	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	350	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	98	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	240	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	160	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	37	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	76	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	180	ug/kg	1.0	U	U	Yes	
4H-Cyclopenta[def]phenanthrene	250	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	1800	ug/kg	1.0	J	J	Yes	
1H-Cyclopropa[l]phenanthrene,1a,9b	100	ug/kg	1.0	JN	NJ	Yes	
Benzo[e]pyrene	93	ug/kg	1.0	JN	NJ	Yes	
Silane, trichlorooctadecyl-	140	ug/kg	1.0	JN	NJ	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS0	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-7	pH: 7.4	Sample Date: 08102011	Sample Time: 11:10:00
% Moisture : 8.5806		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.8	ug/kg	1.0	U	U	Yes	
beta-BHC	1.8	ug/kg	1.0	JP	U	Yes	
delta-BHC	0.54	ug/kg	1.0	JBP	J	Yes	
gamma-BHC (Lindane)	1.8	ug/kg	1.0	U	U	Yes	
Heptachlor	1.8	ug/kg	1.0	U	U	Yes	
Aldrin	1.8	ug/kg	1.0	JP	U	Yes	
Heptachlor epoxide	0.84	ug/kg	1.0	JP	J	Yes	
Endosulfan I	1.8	ug/kg	1.0	JP	U	Yes	
Dieldrin	37	ug/kg	1.0			Yes	
4,4'-DDE	3.1	ug/kg	1.0	JP	J	Yes	
Endrin	1.2	ug/kg	1.0	J	J	Yes	
Endosulfan II	3.5	ug/kg	1.0	JP	U	Yes	
4,4'-DDD	3.5	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	3.5	ug/kg	1.0	U	U	Yes	
4,4'-DDT	4.3	ug/kg	1.0	P	J	Yes	
Methoxychlor	18	ug/kg	1.0	U	U	Yes	
Endrin ketone	3.5	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	3.5	ug/kg	1.0	JP	U	Yes	
alpha-Chlordane	8.5	ug/kg	1.0	P	J	Yes	
gamma-Chlordane	9.5	ug/kg	1.0			Yes	
Toxaphene	180	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS0	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-7	pH: 7.4	Sample Date: 08102011	Sample Time: 11:10:00
% Moisture : 8.5806		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	35	ug/kg	1.0	U	U	Yes	
Aroclor-1221	35	ug/kg	1.0	U	U	Yes	
Aroclor-1232	35	ug/kg	1.0	U	U	Yes	
Aroclor-1242	35	ug/kg	1.0	U	U	Yes	
Aroclor-1248	35	ug/kg	1.0	U	U	Yes	
Aroclor-1254	94	ug/kg	1.0			Yes	
Aroclor-1260	35	ug/kg	1.0	U	U	Yes	
Aroclor-1262	35	ug/kg	1.0	U	U	Yes	
Aroclor-1268	35	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS0RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-7	pH:	Sample Date: 08102011	Sample Time: 11:10:00
% Moisture : 8.5806		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.6	ug/kg	1.0	U	U	Yes	
Chloromethane	4.6	ug/kg	1.0	U	U	Yes	
Vinyl chloride	4.6	ug/kg	1.0	U	U	Yes	
Bromomethane	4.6	ug/kg	1.0	U	U	Yes	
Chloroethane	4.6	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	4.6	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	ug/kg	1.0	U	U	Yes	
Acetone	9.2	ug/kg	1.0	U	U	Yes	
Carbon disulfide	4.6	ug/kg	1.0	U	U	Yes	
Methyl acetate	4.6	ug/kg	1.0	U	U	Yes	
Methylene chloride	4.6	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	4.6	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	4.6	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	
2-Butanone	9.2	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	4.6	ug/kg	1.0	U	U	Yes	
Chloroform	4.6	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	4.6	ug/kg	1.0	U	R	Yes	
Cyclohexane	4.6	ug/kg	1.0	U	R	Yes	
Carbon tetrachloride	4.6	ug/kg	1.0	U	R	Yes	
Benzene	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dichloroethane	4.6	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	92	ug/kg	1.0	U	R	Yes	
Trichloroethene	4.6	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dichloropropane	4.6	ug/kg	1.0	U	R	Yes	
Bromodichlorom	4.6	ug/kg	1.0	U	R	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.6	ug/kg	1.0	U	R	Yes	
cis-1,3-Dichloropropene	4.6	ug/kg	1.0	U	R	Yes	
4-Methyl-2-Pentanone	9.2	ug/kg	1.0	U	R	Yes	
Toluene	0.74	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	4.6	ug/kg	1.0	U	R	Yes	
1,1,2-Trichloroethane	4.6	ug/kg	1.0	U	R	Yes	
Tetrachloroethene	4.6	ug/kg	1.0	U	R	Yes	
2-Hexanone	9.2	ug/kg	1.0	U	R	Yes	
Dibromochloromethane	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dibromoethane	4.6	ug/kg	1.0	U	R	Yes	
Chlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
Ethylbenzene	4.6	ug/kg	1.0	U	R	Yes	
o-Xylene	4.6	ug/kg	1.0	U	R	Yes	
m,p-Xylene	4.6	ug/kg	1.0	U	R	Yes	
Styrene	4.6	ug/kg	1.0	U	R	Yes	
Bromoform	4.6	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	4.6	ug/kg	1.0	U	R	Yes	
1,1,2,2-Tetrachloroethane	4.6	ug/kg	1.0	U	R	Yes	
1,3-Dichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	4.6	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	4.6	ug/kg	1.0	U	R	Yes	
Total Alkanes			1.0	J		Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS1	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-8	pH: 7.5	Sample Date: 08102011	Sample Time: 13:10:00
% Moisture : 21.5178		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	41	ug/kg	1.0	U	U	Yes	
Aroclor-1221	41	ug/kg	1.0	U	U	Yes	
Aroclor-1232	41	ug/kg	1.0	U	U	Yes	
Aroclor-1242	41	ug/kg	1.0	U	U	Yes	
Aroclor-1248	41	ug/kg	1.0	U	U	Yes	
Aroclor-1254	790	ug/kg	1.0	EP	J	Yes	
Aroclor-1260	41	ug/kg	1.0	U	U	Yes	
Aroclor-1262	41	ug/kg	1.0	U	U	Yes	
Aroclor-1268	41	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS1	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-8	pH: 7.5	Sample Date: 08102011	Sample Time: 13:10:00
% Moisture : 21.5178		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/kg	1.0	U	U	Yes	
Phenol	210	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	210	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	210	ug/kg	1.0	U	U	Yes	
2-Methylphenol	210	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	210	ug/kg	1.0	U	U	Yes	
Acetophenone	210	ug/kg	1.0	U	U	Yes	
4-Methylphenol	210	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	210	ug/kg	1.0	U	U	Yes	
Hexachloroethane	210	ug/kg	1.0	U	U	Yes	
Nitrobenzene	210	ug/kg	1.0	U	U	Yes	
Isophorone	210	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	210	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	210	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	210	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	210	ug/kg	1.0	U	U	Yes	
Naphthalene	270	ug/kg	1.0			Yes	
4-Chloroaniline	210	ug/kg	1.0	U	UJ	Yes	
Hexachlorobutadiene	210	ug/kg	1.0	U	U	Yes	
Caprolactam	210	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	210	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	100	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	210	ug/kg	1.0	U	UJ	Yes	
2,4,6-Trichlorophenol	210	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	210	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	15	ug/kg	1.0	J	J	Yes	
2-Chloronaphthalene	210	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	410	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	210	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	210	ug/kg	1.0	U	U	Yes	
Acenaphthylene	17	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	410	ug/kg	1.0	U	U	Yes	
Acenaphthene	210	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	410	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	410	ug/kg	1.0	U	U	Yes	
Dibenzofuran	210	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	210	ug/kg	1.0	U	U	Yes	
Diethylphthalate	210	ug/kg	1.0	U	U	Yes	
Fluorene	7.1	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	210	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	410	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	410	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	210	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	210	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	210	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	210	ug/kg	1.0	U	U	Yes	
Atrazine	210	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	410	ug/kg	1.0	U	U	Yes	
Phenanthrene	59	ug/kg	1.0	J	J	Yes	
Anthracene	15	ug/kg	1.0	J	J	Yes	
Carbazole	210	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	39	ug/kg	1.0	J	J	Yes	
Fluoranthene	70	ug/kg	1.0	J	J	Yes	
Pyrene	61	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	210	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	210	ug/kg	1.0	U	UJ	Yes	
Benzo(a)anthracene	37	ug/kg	1.0	J	J	Yes	
Chrysene	40	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	520	ug/kg	1.0			Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	520	ug/kg	1.0			Yes	
Di-n-octylphthalate	210	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	51	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	19	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	39	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	39	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	11	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	18	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	210	ug/kg	1.0	U	U	Yes	
Benzene, 2-ethyl-1,4-dimethyl-	95	ug/kg	1.0	JN	NJ	Yes	
Benzene, 4-ethyl-1,2-dimethyl-	350	ug/kg	1.0	JN	NJ	Yes	
Benzene, 1,2,3-trimethyl-	470	ug/kg	1.0	JN	NJ	Yes	
Benzene, 2-ethyl-1,4-dimethyl-	610	ug/kg	1.0	JN	NJ	Yes	
Benzene, 1-methyl-3-propyl-	400	ug/kg	1.0	JN	NJ	Yes	
Benzene, 1,2,3-trimethyl-	390	ug/kg	1.0	JN	NJ	Yes	
Naphthalene, 2,6-dimethyl-	130	ug/kg	1.0	JN	NJ	Yes	
Benzene, 1-ethyl-3,5-dimethyl-	140	ug/kg	1.0	JN	NJ	Yes	
Tetradecanoic acid	350	ug/kg	1.0	JN	NJ	Yes	
Hexanedioic acid, bis(2-ethylhexyl) ester	260	ug/kg	1.0	JN	NJ	Yes	
Benzene, 1-ethyl-2,3-dimethyl-	95	ug/kg	1.0	JN	NJ	Yes	
cis-9-Hexadecenoic acid	1100	ug/kg	1.0	JN	NJ	Yes	
Benzene, 2-ethyl-1,3-dimethyl-	170	ug/kg	1.0	JN	NJ	Yes	
Phthalimide	120	ug/kg	1.0	JN	NJ	Yes	
Benzene, 1,2,3-trimethyl-	300	ug/kg	1.0	JN	NJ	Yes	
Naphthalene, 2,6-dimethyl-	120	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	1300	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS1	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-8	pH: 7.5	Sample Date: 08102011	Sample Time: 13:10:00
% Moisture : 21.5178		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.1	ug/kg	1.0	JP	U	Yes	
beta-BHC	2.1	ug/kg	1.0	U	U	Yes	
delta-BHC	2.1	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	2.1	ug/kg	1.0	U	U	Yes	
Heptachlor	0.71	ug/kg	1.0	JP	J	Yes	
Aldrin	2.1	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	5.1	ug/kg	1.0	P	J	Yes	
Endosulfan I	2.1	ug/kg	1.0	U	U	Yes	
Dieldrin	6.6	ug/kg	1.0	P	J	Yes	
4,4'-DDE	29	ug/kg	1.0			Yes	
Endrin	5.8	ug/kg	1.0	P	J	Yes	
Endosulfan II	4.7	ug/kg	1.0	P	J	Yes	
4,4'-DDD	10	ug/kg	1.0	P	J	Yes	
Endosulfan sulfate	4.1	ug/kg	1.0	U	U	Yes	
4,4'-DDT	59	ug/kg	1.0	P	J	Yes	
Methoxychlor	21	ug/kg	1.0	U	U	Yes	
Endrin ketone	4.1	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	4.1	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.3	ug/kg	1.0	P	J	Yes	
gamma-Chlordane	2.1	ug/kg	1.0	U	U	Yes	
Toxaphene	210	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS1	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-8	pH:	Sample Date: 08102011	Sample Time: 13:10:00
% Moisture : 21.5178		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.5	ug/kg	1.0	U	U	Yes	
Chloromethane	5.5	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.5	ug/kg	1.0	U	U	Yes	
Bromomethane	5.5	ug/kg	1.0	U	U	Yes	
Chloroethane	5.5	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.5	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.5	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	ug/kg	1.0	U	U	Yes	
Acetone	42	ug/kg	1.0			Yes	
Carbon disulfide	2.0	ug/kg	1.0	J	J	Yes	
Methyl acetate	5.5	ug/kg	1.0	U	U	Yes	
Methylene chloride	0.84	ug/kg	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.5	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.5	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.5	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.5	ug/kg	1.0	U	U	Yes	
2-Butanone	22	ug/kg	1.0			Yes	
Bromochloromet hane	5.5	ug/kg	1.0	U	U	Yes	
Chloroform	1.9	ug/kg	1.0	J	J	Yes	
1,1,1-Trichloroethane	5.5	ug/kg	1.0	U	U	Yes	
Cyclohexane	0.63	ug/kg	1.0	J	J	Yes	
Carbon tetrachloride	5.5	ug/kg	1.0	U	U	Yes	
Benzene	1.9	ug/kg	1.0	J	J	Yes	
1,2-Dichloroethane	5.5	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.5	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.5	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	3.4	ug/kg	1.0	J	J	Yes	
Bromodichlorom	5.5	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.5	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.5	ug/kg	1.0	U	UJ	Yes	
4-Methyl-2-Pentanone	11	ug/kg	1.0	U	U	Yes	
Toluene	0.80	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.5	ug/kg	1.0	U	UJ	Yes	
1,1,2-Trichloroethane	5.5	ug/kg	1.0	U	UJ	Yes	
Tetrachloroethene	5.5	ug/kg	1.0	U	U	Yes	
2-Hexanone	11	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.5	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.5	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.5	ug/kg	1.0	U	U	Yes	
Ethylbenzene	0.19	ug/kg	1.0	J	J	Yes	
o-Xylene	1.2	ug/kg	1.0	J	J	Yes	
m,p-Xylene	0.33	ug/kg	1.0	J	J	Yes	
Styrene	5.5	ug/kg	1.0	U	U	Yes	
Bromoform	5.5	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.5	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.5	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.5	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS1DL	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-8	pH: 7.5	Sample Date: 08102011	Sample Time: 13:10:00
% Moisture : 21.5178		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	410	ug/kg	10.0	U	U	Yes	
Aroclor-1221	410	ug/kg	10.0	U	U	Yes	
Aroclor-1232	410	ug/kg	10.0	U	U	Yes	
Aroclor-1242	410	ug/kg	10.0	U	U	Yes	
Aroclor-1248	410	ug/kg	10.0	U	U	Yes	
Aroclor-1254	1100	ug/kg	10.0	D		Yes	
Aroclor-1260	410	ug/kg	10.0	U	U	Yes	
Aroclor-1262	410	ug/kg	10.0	U	U	Yes	
Aroclor-1268	410	ug/kg	10.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS1RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-8	pH:	Sample Date: 08102011	Sample Time: 13:10:00
% Moisture : 21.5178		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.0	ug/kg	1.0	U	U	Yes	
Chloromethane	6.0	ug/kg	1.0	U	U	Yes	
Vinyl chloride	6.0	ug/kg	1.0	U	U	Yes	
Bromomethane	6.0	ug/kg	1.0	U	U	Yes	
Chloroethane	6.0	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	6.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	6.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	ug/kg	1.0	U	U	Yes	
Acetone	30	ug/kg	1.0			Yes	
Carbon disulfide	6.0	ug/kg	1.0	U	U	Yes	
Methyl acetate	6.0	ug/kg	1.0	U	U	Yes	
Methylene chloride	6.0	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	6.0	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	6.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	6.0	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	6.0	ug/kg	1.0	U	U	Yes	
2-Butanone	16	ug/kg	1.0			Yes	
Bromochloromet hane	6.0	ug/kg	1.0	U	U	Yes	
Chloroform	1.5	ug/kg	1.0	J	J	Yes	
1,1,1-Trichloroethane	6.0	ug/kg	1.0	U	U	Yes	
Cyclohexane	6.0	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	6.0	ug/kg	1.0	U	U	Yes	
Benzene	6.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	6.0	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	120	ug/kg	1.0	U	R	Yes	
Trichloroethene	6.0	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	6.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	4.5	ug/kg	1.0	J	J	Yes	
Bromodichlorom	6.0	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	6.0	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	6.0	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	12	ug/kg	1.0	U	U	Yes	
Toluene	0.90	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	6.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	6.0	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	6.0	ug/kg	1.0	U	U	Yes	
2-Hexanone	12	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	6.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	6.0	ug/kg	1.0	U	U	Yes	
Chlorobenzene	6.0	ug/kg	1.0	U	U	Yes	
Ethylbenzene	6.0	ug/kg	1.0	U	U	Yes	
o-Xylene	0.49	ug/kg	1.0	J	J	Yes	
m,p-Xylene	0.22	ug/kg	1.0	J	J	Yes	
Styrene	6.0	ug/kg	1.0	U	U	Yes	
Bromoform	6.0	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	6.0	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	6.0	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	6.0	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	6.0	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	6.0	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	6.0	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	6.0	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	6.0	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS2	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-9	pH: 7.2	Sample Date: 08102011	Sample Time: 13:20:00
% Moisture : 9.7264		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.8	ug/kg	1.0	U	U	Yes	
beta-BHC	1.8	ug/kg	1.0	U	U	Yes	
delta-BHC	1.8	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	1.8	ug/kg	1.0	U	U	Yes	
Heptachlor	1.8	ug/kg	1.0	U	U	Yes	
Aldrin	1.8	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	0.69	ug/kg	1.0	JP	J	Yes	
Endosulfan I	1.8	ug/kg	1.0	U	U	Yes	
Dieldrin	1.3	ug/kg	1.0	JP	J	Yes	
4,4'-DDE	1.4	ug/kg	1.0	JP	J	Yes	
Endrin	3.5	ug/kg	1.0	U	U	Yes	
Endosulfan II	3.5	ug/kg	1.0	JP	U	Yes	
4,4'-DDD	3.5	ug/kg	1.0	JP	U	Yes	
Endosulfan sulfate	3.5	ug/kg	1.0	U	U	Yes	
4,4'-DDT	4.8	ug/kg	1.0	P	J	Yes	
Methoxychlor	18	ug/kg	1.0	U	U	Yes	
Endrin ketone	3.5	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	3.5	ug/kg	1.0	JP	U	Yes	
alpha-Chlordane	1.8	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	1.8	ug/kg	1.0	U	U	Yes	
Toxaphene	180	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS2	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-9	pH:	Sample Date: 08102011	Sample Time: 13:20:00
% Moisture : 9.7264		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.5	ug/kg	1.0	U	U	Yes	
Chloromethane	4.5	ug/kg	1.0	U	U	Yes	
Vinyl chloride	4.5	ug/kg	1.0	U	U	Yes	
Bromomethane	4.5	ug/kg	1.0	U	U	Yes	
Chloroethane	4.5	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	4.5	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	4.5	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.5	ug/kg	1.0	U	U	Yes	
Acetone	8.9	ug/kg	1.0	U	U	Yes	
Carbon disulfide	4.5	ug/kg	1.0	U	U	Yes	
Methyl acetate	4.5	ug/kg	1.0	U	U	Yes	
Methylene chloride	4.5	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	4.5	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	4.5	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	4.5	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	4.5	ug/kg	1.0	U	U	Yes	
2-Butanone	8.9	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	4.5	ug/kg	1.0	U	U	Yes	
Chloroform	4.5	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	4.5	ug/kg	1.0	U	R	Yes	
Cyclohexane	4.5	ug/kg	1.0	U	R	Yes	
Carbon tetrachloride	4.5	ug/kg	1.0	U	R	Yes	
Benzene	4.5	ug/kg	1.0	U	R	Yes	
1,2-Dichloroethane	4.5	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	89	ug/kg	1.0	U	R	Yes	
Trichloroethene	4.5	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	4.5	ug/kg	1.0	U	R	Yes	
1,2-Dichloropropane	4.5	ug/kg	1.0	U	R	Yes	
Bromodichlorom	4.5	ug/kg	1.0	U	R	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.5	ug/kg	1.0	U	R	Yes	
cis-1,3-Dichloropropene	4.5	ug/kg	1.0	U	R	Yes	
4-Methyl-2-Pentanone	8.9	ug/kg	1.0	U	R	Yes	
Toluene	0.52	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	4.5	ug/kg	1.0	U	R	Yes	
1,1,2-Trichloroethane	4.5	ug/kg	1.0	U	R	Yes	
Tetrachloroethene	4.5	ug/kg	1.0	U	R	Yes	
2-Hexanone	8.9	ug/kg	1.0	U	R	Yes	
Dibromochloromethane	4.5	ug/kg	1.0	U	R	Yes	
1,2-Dibromoethane	4.5	ug/kg	1.0	U	R	Yes	
Chlorobenzene	4.5	ug/kg	1.0	U	R	Yes	
Ethylbenzene	4.5	ug/kg	1.0	U	R	Yes	
o-Xylene	4.5	ug/kg	1.0	U	R	Yes	
m,p-Xylene	4.5	ug/kg	1.0	U	R	Yes	
Styrene	4.5	ug/kg	1.0	U	R	Yes	
Bromoform	4.5	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	4.5	ug/kg	1.0	U	R	Yes	
1,1,2,2-Tetrachloroethane	4.5	ug/kg	1.0	U	R	Yes	
1,3-Dichlorobenzene	4.5	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	4.5	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	4.5	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	4.5	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	4.5	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	4.5	ug/kg	1.0	U	R	Yes	
Total Alkanes			1.0	J		Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS2	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-9	pH: 7.2	Sample Date: 08102011	Sample Time: 13:20:00
% Moisture : 9.7264		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	180	ug/kg	1.0	U	U	Yes	
Phenol	180	ug/kg	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	180	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	180	ug/kg	1.0	U	U	Yes	
2-Methylphenol	180	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	180	ug/kg	1.0	U	U	Yes	
Acetophenone	180	ug/kg	1.0	U	U	Yes	
4-Methylphenol	180	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	180	ug/kg	1.0	U	U	Yes	
Hexachloroethane	180	ug/kg	1.0	U	U	Yes	
Nitrobenzene	180	ug/kg	1.0	U	U	Yes	
Isophorone	180	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	180	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	180	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	180	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	180	ug/kg	1.0	U	U	Yes	
Naphthalene	9.4	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	180	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	180	ug/kg	1.0	U	U	Yes	
Caprolactam	180	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	180	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	7.2	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	180	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	180	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	180	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	180	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	180	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	180	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	180	ug/kg	1.0	U	U	Yes	
Acenaphthylene	23	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	360	ug/kg	1.0	U	U	Yes	
Acenaphthene	29	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	360	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	360	ug/kg	1.0	U	U	Yes	
Dibenzofuran	11	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	180	ug/kg	1.0	U	U	Yes	
Diethylphthalate	180	ug/kg	1.0	U	U	Yes	
Fluorene	24	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	180	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	360	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	360	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	180	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	180	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	180	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	180	ug/kg	1.0	U	U	Yes	
Atrazine	180	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	360	ug/kg	1.0	U	U	Yes	
Phenanthrene	670	ug/kg	1.0			Yes	
Anthracene	88	ug/kg	1.0	J	J	Yes	
Carbazole	43	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	9.1	ug/kg	1.0	J	J	Yes	
Fluoranthene	2200	ug/kg	1.0		J	Yes	
Pyrene	1300	ug/kg	1.0		J	Yes	
Butylbenzylphthalate	180	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	180	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	730	ug/kg	1.0		J	Yes	
Chrysene	750	ug/kg	1.0		J	Yes	
Bis(2-ethylhexyl)	90	ug/kg	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	90	ug/kg	1.0	J	J	Yes	
Di-n-octylphthalate	180	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	1200	ug/kg	1.0			Yes	
Benzo(k)fluoranthene	400	ug/kg	1.0			Yes	
Benzo(a)pyrene	760	ug/kg	1.0			Yes	
Indeno(1,2,3-cd)pyrene	600	ug/kg	1.0			Yes	
Dibenzo(a,h)anthracene	120	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	400	ug/kg	1.0			Yes	
2,3,4,6-Tetrachlorophenol	180	ug/kg	1.0	U	U	Yes	
Total Alkanes	6700	ug/kg	1.0	J	J	Yes	
Benzo[e]pyrene	450	ug/kg	1.0	JN	NJ	Yes	
Fluoranthene, 2-methyl-	170	ug/kg	1.0	JN	NJ	Yes	
Phenanthrene, 2-methyl-	87	ug/kg	1.0	JN	NJ	Yes	
Benzo[e]pyrene	100	ug/kg	1.0	JN	NJ	Yes	
Phenanthrene, 2,5-dimethyl-	110	ug/kg	1.0	JN	NJ	Yes	
Pyrene, 1-methyl-	93	ug/kg	1.0	JN	NJ	Yes	
Phenanthrene, 1-methyl-	140	ug/kg	1.0	JN	NJ	Yes	
9,10-Anthracenedione	130	ug/kg	1.0	JN	NJ	Yes	
4H-Cyclopenta[def]phenanthrene	160	ug/kg	1.0	JN	NJ	Yes	

Case No:	41647	Contract:	EPW11037	SDG No:	E5KR4	Lab Code:	DATAC
Sample Number:	E5KS2	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-9	pH:	7.2	Sample Date:	08102011	Sample Time:	13:20:00
% Moisture :	9.7264			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	35	ug/kg	1.0	U	U	Yes	
Aroclor-1221	35	ug/kg	1.0	U	U	Yes	
Aroclor-1232	35	ug/kg	1.0	U	U	Yes	
Aroclor-1242	35	ug/kg	1.0	U	U	Yes	
Aroclor-1248	35	ug/kg	1.0	U	U	Yes	
Aroclor-1254	75	ug/kg	1.0	P	J	Yes	
Aroclor-1260	35	ug/kg	1.0	U	U	Yes	
Aroclor-1262	35	ug/kg	1.0	U	U	Yes	
Aroclor-1268	35	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS2RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-9	pH:	Sample Date: 08102011	Sample Time: 13:20:00
% Moisture : 9.7264		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.3	ug/kg	1.0	U	U	Yes	
Chloromethane	4.3	ug/kg	1.0	U	U	Yes	
Vinyl chloride	4.3	ug/kg	1.0	U	U	Yes	
Bromomethane	4.3	ug/kg	1.0	U	U	Yes	
Chloroethane	4.3	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	4.3	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	4.3	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.3	ug/kg	1.0	U	U	Yes	
Acetone	8.6	ug/kg	1.0	U	U	Yes	
Carbon disulfide	4.3	ug/kg	1.0	U	U	Yes	
Methyl acetate	4.3	ug/kg	1.0	U	U	Yes	
Methylene chloride	4.3	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	4.3	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	4.3	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	4.3	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	4.3	ug/kg	1.0	U	U	Yes	
2-Butanone	8.6	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	4.3	ug/kg	1.0	U	U	Yes	
Chloroform	0.30	ug/kg	1.0	J	J	Yes	
1,1,1-Trichloroethane	4.3	ug/kg	1.0	U	U	Yes	
Cyclohexane	4.3	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	4.3	ug/kg	1.0	U	U	Yes	
Benzene	4.3	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	4.3	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	86	ug/kg	1.0	U	R	Yes	
Trichloroethene	4.3	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	4.3	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	4.3	ug/kg	1.0	U	U	Yes	
Bromodichlorom	4.3	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.3	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	4.3	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	8.6	ug/kg	1.0	U	U	Yes	
Toluene	0.49	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	4.3	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	4.3	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	4.3	ug/kg	1.0	U	U	Yes	
2-Hexanone	8.6	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	4.3	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	4.3	ug/kg	1.0	U	U	Yes	
Chlorobenzene	4.3	ug/kg	1.0	U	U	Yes	
Ethylbenzene	4.3	ug/kg	1.0	U	U	Yes	
o-Xylene	4.3	ug/kg	1.0	U	U	Yes	
m,p-Xylene	4.3	ug/kg	1.0	U	U	Yes	
Styrene	4.3	ug/kg	1.0	U	U	Yes	
Bromoform	4.3	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	4.3	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	4.3	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	4.3	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	4.3	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	4.3	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	4.3	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	4.3	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	4.3	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS3	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-10	pH: 7.5	Sample Date: 08102011	Sample Time: 14:20:00
% Moisture : 20.8215		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	200	ug/kg	1.0	JB	U	Yes	
Phenol	200	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	200	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	200	ug/kg	1.0	U	U	Yes	
2-Methylphenol	200	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	200	ug/kg	1.0	U	U	Yes	
Acetophenone	200	ug/kg	1.0	U	U	Yes	
4-Methylphenol	200	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	200	ug/kg	1.0	U	U	Yes	
Hexachloroethane	200	ug/kg	1.0	U	U	Yes	
Nitrobenzene	200	ug/kg	1.0	U	U	Yes	
Isophorone	200	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	200	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	200	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	200	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	200	ug/kg	1.0	U	U	Yes	
Naphthalene	14	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	200	ug/kg	1.0	U	UJ	Yes	
Hexachlorobutadiene	200	ug/kg	1.0	U	U	Yes	
Caprolactam	200	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	200	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	9.5	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	200	ug/kg	1.0	U	UJ	Yes	
2,4,6-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	200	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	200	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	400	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	200	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	200	ug/kg	1.0	U	U	Yes	
Acenaphthylene	21	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	400	ug/kg	1.0	U	U	Yes	
Acenaphthene	6.2	ug/kg	1.0	J	J	Yes	
2,4-Dinitrophenol	400	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	400	ug/kg	1.0	U	U	Yes	
Dibenzofuran	15	ug/kg	1.0	J	J	Yes	
2,4-Dinitrotoluene	200	ug/kg	1.0	U	U	Yes	
Diethylphthalate	200	ug/kg	1.0	U	U	Yes	
Fluorene	26	ug/kg	1.0	J	J	Yes	
4-Chlorophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	400	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	400	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	200	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	200	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	200	ug/kg	1.0	U	U	Yes	
Atrazine	200	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	400	ug/kg	1.0	U	U	Yes	
Phenanthrene	310	ug/kg	1.0			Yes	
Anthracene	29	ug/kg	1.0	J	J	Yes	
Carbazole	26	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	6.9	ug/kg	1.0	J	J	Yes	
Fluoranthene	370	ug/kg	1.0		J	Yes	
Pyrene	230	ug/kg	1.0		J	Yes	
Butylbenzylphthalate	200	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	200	ug/kg	1.0	U	UJ	Yes	
Benzo(a)anthracene	98	ug/kg	1.0	J	J	Yes	
Chrysene	130	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	47	ug/kg	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	47	ug/kg	1.0	J	J	Yes	
Di-n-octylphthalate	200	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	150	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	52	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	100	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	96	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	23	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	51	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	200	ug/kg	1.0	U	U	Yes	
Tetradecanoic acid	99	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	680	ug/kg	1.0	J	J	Yes	
Dodecanoic acid	290	ug/kg	1.0	JN	NJ	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS3	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-10	pH: 7.5	Sample Date: 08102011	Sample Time: 14:20:00
% Moisture : 20.8215		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.0	ug/kg	1.0	JP	U	Yes	
beta-BHC	2.0	ug/kg	1.0	JP	U	Yes	
delta-BHC	2.0	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	2.0	ug/kg	1.0	U	U	Yes	
Heptachlor	2.0	ug/kg	1.0	JP	U	Yes	
Aldrin	2.0	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	2.0	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.0	ug/kg	1.0	U	U	Yes	
Dieldrin	4.0	ug/kg	1.0	U	U	Yes	
4,4'-DDE	4.0	ug/kg	1.0	JP	U	Yes	
Endrin	4.0	ug/kg	1.0	U	U	Yes	
Endosulfan II	4.0	ug/kg	1.0	U	U	Yes	
4,4'-DDD	4.0	ug/kg	1.0	JP	U	Yes	
Endosulfan sulfate	4.0	ug/kg	1.0	U	U	Yes	
4,4'-DDT	1.8	ug/kg	1.0	J	J	Yes	
Methoxychlor	20	ug/kg	1.0	U	U	Yes	
Endrin ketone	0.39	ug/kg	1.0	JB	J	Yes	
Endrin aldehyde	4.0	ug/kg	1.0	JP	U	Yes	
alpha-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
Toxaphene	200	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS3	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-10	pH: 7.5	Sample Date: 08102011	Sample Time: 14:20:00
% Moisture : 20.8215		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	40	ug/kg	1.0	U	U	Yes	
Aroclor-1221	40	ug/kg	1.0	U	U	Yes	
Aroclor-1232	40	ug/kg	1.0	U	U	Yes	
Aroclor-1242	40	ug/kg	1.0	U	U	Yes	
Aroclor-1248	40	ug/kg	1.0	U	U	Yes	
Aroclor-1254	40	ug/kg	1.0	U	U	Yes	
Aroclor-1260	40	ug/kg	1.0	U	U	Yes	
Aroclor-1262	40	ug/kg	1.0	U	U	Yes	
Aroclor-1268	40	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS3	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-10	pH:	Sample Date: 08102011	Sample Time: 14:20:00
% Moisture : 20.8215		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.5	ug/kg	1.0	U	U	Yes	
Chloromethane	5.5	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.5	ug/kg	1.0	U	U	Yes	
Bromomethane	5.5	ug/kg	1.0	U	U	Yes	
Chloroethane	5.5	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.5	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.5	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	ug/kg	1.0	U	U	Yes	
Acetone	31	ug/kg	1.0			Yes	
Carbon disulfide	1.1	ug/kg	1.0	J	J	Yes	
Methyl acetate	5.5	ug/kg	1.0	U	U	Yes	
Methylene chloride	0.44	ug/kg	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.5	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.5	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.5	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.5	ug/kg	1.0	U	U	Yes	
2-Butanone	16	ug/kg	1.0			Yes	
Bromochloromet hane	5.5	ug/kg	1.0	U	U	Yes	
Chloroform	5.5	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.5	ug/kg	1.0	U	U	Yes	
Cyclohexane	1.8	ug/kg	1.0	J	J	Yes	
Carbon tetrachloride	5.5	ug/kg	1.0	U	U	Yes	
Benzene	5.4	ug/kg	1.0	J	J	Yes	
1,2-Dichloroethane	5.5	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.5	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	4.1	ug/kg	1.0	J	J	Yes	
1,2-Dichloropropane	5.5	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.5	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.5	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.5	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	11	ug/kg	1.0	U	U	Yes	
Toluene	0.56	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.5	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.5	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.5	ug/kg	1.0	U	U	Yes	
2-Hexanone	11	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.5	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.5	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.5	ug/kg	1.0	U	U	Yes	
Ethylbenzene	23	ug/kg	1.0			Yes	
o-Xylene	0.37	ug/kg	1.0	J	J	Yes	
m,p-Xylene	1.8	ug/kg	1.0	J	J	Yes	
Styrene	5.5	ug/kg	1.0	U	U	Yes	
Bromoform	5.5	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	6.7	ug/kg	1.0			Yes	
1,1,2,2-Tetrachloroethane	5.5	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	3.3	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.5	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	
Total Alkanes			1.0	J		Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS3RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-10	pH:	Sample Date: 08102011	Sample Time: 14:20:00
% Moisture : 20.8215		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.7	ug/kg	1.0	U	U	Yes	
Chloromethane	5.7	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.7	ug/kg	1.0	U	U	Yes	
Bromomethane	5.7	ug/kg	1.0	U	U	Yes	
Chloroethane	5.7	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.7	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.7	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	ug/kg	1.0	U	U	Yes	
Acetone	29	ug/kg	1.0			Yes	
Carbon disulfide	5.7	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.7	ug/kg	1.0	U	U	Yes	
Methylene chloride	0.55	ug/kg	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.7	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.7	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	0.41	ug/kg	1.0	J	J	Yes	
cis-1,2-Dichloroethene	5.7	ug/kg	1.0	U	U	Yes	
2-Butanone	16	ug/kg	1.0			Yes	
Bromochloromet hane	5.7	ug/kg	1.0	U	U	Yes	
Chloroform	5.7	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.7	ug/kg	1.0	U	U	Yes	
Cyclohexane	1.4	ug/kg	1.0	J	J	Yes	
Carbon tetrachloride	5.7	ug/kg	1.0	U	U	Yes	
Benzene	4.1	ug/kg	1.0	J	J	Yes	
1,2-Dichloroethane	5.7	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	
Trichloroethene	0.31	ug/kg	1.0	J	J	Yes	
Methylcyclohexa ne	3.9	ug/kg	1.0	J	J	Yes	
1,2-Dichloropropane	5.7	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.7	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.7	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.7	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	11	ug/kg	1.0	U	U	Yes	
Toluene	0.74	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.7	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.7	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.7	ug/kg	1.0	U	U	Yes	
2-Hexanone	11	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.7	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.7	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.7	ug/kg	1.0	U	U	Yes	
Ethylbenzene	21	ug/kg	1.0			Yes	
o-Xylene	5.7	ug/kg	1.0	U	U	Yes	
m,p-Xylene	1.5	ug/kg	1.0	J	J	Yes	
Styrene	5.7	ug/kg	1.0	U	U	Yes	
Bromoform	5.7	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	6.1	ug/kg	1.0			Yes	
1,1,2,2-Tetrachloroethane	5.7	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.7	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	1.6	ug/kg	1.0	J	J	Yes	
1,2-Dichlorobenzene	5.7	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.7	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.7	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.7	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS4	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-11	pH: 7.2	Sample Date: 08102011	Sample Time: 14:40:00
% Moisture : 10.9371		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	ug/kg	1.0	U	U	Yes	
beta-BHC	1.9	ug/kg	1.0	U	U	Yes	
delta-BHC	1.9	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	1.9	ug/kg	1.0	U	U	Yes	
Heptachlor	1.9	ug/kg	1.0	U	U	Yes	
Aldrin	1.9	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	1.9	ug/kg	1.0	JP	U	Yes	
Endosulfan I	1.9	ug/kg	1.0	U	U	Yes	
Dieldrin	0.81	ug/kg	1.0	J	J	Yes	
4,4'-DDE	0.87	ug/kg	1.0	J	J	Yes	
Endrin	3.7	ug/kg	1.0	U	U	Yes	
Endosulfan II	0.34	ug/kg	1.0	J	J	Yes	
4,4'-DDD	3.7	ug/kg	1.0	JP	U	Yes	
Endosulfan sulfate	3.7	ug/kg	1.0	U	U	Yes	
4,4'-DDT	1.3	ug/kg	1.0	J	J	Yes	
Methoxychlor	19	ug/kg	1.0	U	U	Yes	
Endrin ketone	3.7	ug/kg	1.0	JBP	U	Yes	
Endrin aldehyde	3.7	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	0.30	ug/kg	1.0	J	J	Yes	
gamma-Chlordane	1.9	ug/kg	1.0	U	U	Yes	
Toxaphene	190	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS4	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-11	pH: 7.2	Sample Date: 08102011	Sample Time: 14:40:00
% Moisture : 10.9371		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	ug/kg	1.0	U	U	Yes	
Phenol	190	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	190	ug/kg	1.0	U	U	Yes	
2-Methylphenol	190	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	ug/kg	1.0	U	U	Yes	
Acetophenone	190	ug/kg	1.0	U	U	Yes	
4-Methylphenol	190	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	ug/kg	1.0	U	U	Yes	
Hexachloroethane	190	ug/kg	1.0	U	U	Yes	
Nitrobenzene	190	ug/kg	1.0	U	U	Yes	
Isophorone	190	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	190	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	190	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	190	ug/kg	1.0	U	U	Yes	
Naphthalene	190	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	190	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	190	ug/kg	1.0	U	U	Yes	
Caprolactam	190	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	190	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	190	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	190	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	190	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	ug/kg	1.0	U	U	Yes	
Acenaphthylene	190	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	360	ug/kg	1.0	U	U	Yes	
Acenaphthene	190	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	360	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	360	ug/kg	1.0	U	U	Yes	
Dibenzofuran	190	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	ug/kg	1.0	U	U	Yes	
Diethylphthalate	190	ug/kg	1.0	U	U	Yes	
Fluorene	190	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	190	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	360	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	360	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	190	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	190	ug/kg	1.0	U	U	Yes	
Atrazine	190	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	360	ug/kg	1.0	U	U	Yes	
Phenanthrene	21	ug/kg	1.0	J	J	Yes	
Anthracene	190	ug/kg	1.0	U	U	Yes	
Carbazole	190	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	6.2	ug/kg	1.0	J	J	Yes	
Fluoranthene	23	ug/kg	1.0	J	J	Yes	
Pyrene	21	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	190	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	9.5	ug/kg	1.0	J	J	Yes	
Chrysene	28	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	31	ug/kg	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	31	ug/kg	1.0	J	J	Yes	
Di-n-octylphthalate	190	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	20	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	190	ug/kg	1.0	U	U	Yes	
Benzo(a)pyrene	11	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	8.8	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	190	ug/kg	1.0	U	U	Yes	
Benzo(g,h,i)perylene	11	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	190	ug/kg	1.0	U	U	Yes	
Sulfurous acid, butyl dodecyl ester	130	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	8700	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS4	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-11	pH: 7.2	Sample Date: 08102011	Sample Time: 14:40:00
% Moisture : 10.9371		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	37	ug/kg	1.0	U	U	Yes	
Aroclor-1221	37	ug/kg	1.0	U	U	Yes	
Aroclor-1232	37	ug/kg	1.0	U	U	Yes	
Aroclor-1242	37	ug/kg	1.0	U	U	Yes	
Aroclor-1248	37	ug/kg	1.0	U	U	Yes	
Aroclor-1254	37	ug/kg	1.0	U	U	Yes	
Aroclor-1260	37	ug/kg	1.0	U	U	Yes	
Aroclor-1262	37	ug/kg	1.0	U	U	Yes	
Aroclor-1268	37	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS4	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-11	pH:	Sample Date: 08102011	Sample Time: 14:40:00
% Moisture : 10.9371		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.7	ug/kg	1.0	U	U	Yes	
Chloromethane	5.7	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.7	ug/kg	1.0	U	U	Yes	
Bromomethane	5.7	ug/kg	1.0	U	U	Yes	
Chloroethane	5.7	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.7	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.7	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	ug/kg	1.0	U	U	Yes	
Acetone	11	ug/kg	1.0	U	U	Yes	
Carbon disulfide	5.7	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.7	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.7	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.7	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.7	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.7	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.7	ug/kg	1.0	U	U	Yes	
2-Butanone	11	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.7	ug/kg	1.0	U	U	Yes	
Chloroform	5.7	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.7	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.7	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.7	ug/kg	1.0	U	U	Yes	
Benzene	5.7	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.7	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.7	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.7	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.7	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.7	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.7	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.7	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	11	ug/kg	1.0	U	U	Yes	
Toluene	0.45	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.7	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.7	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.7	ug/kg	1.0	U	U	Yes	
2-Hexanone	11	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.7	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.7	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.7	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.7	ug/kg	1.0	U	U	Yes	
o-Xylene	5.7	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.7	ug/kg	1.0	U	U	Yes	
Styrene	5.7	ug/kg	1.0	U	U	Yes	
Bromoform	5.7	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	5.7	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.7	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.7	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.7	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.7	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.7	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.7	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.7	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS5	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-12	pH:	Sample Date: 08102011	Sample Time: 10:15:00
% Moisture : 20.3909		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.4	ug/kg	1.0	U	U	Yes	
Chloromethane	5.4	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.4	ug/kg	1.0	U	U	Yes	
Bromomethane	5.4	ug/kg	1.0	U	U	Yes	
Chloroethane	5.4	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	ug/kg	1.0	U	U	Yes	
Acetone	11	ug/kg	1.0	U	U	Yes	
Carbon disulfide	5.4	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.4	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.4	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.4	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	
2-Butanone	11	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.4	ug/kg	1.0	U	U	Yes	
Chloroform	5.4	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.4	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.4	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.4	ug/kg	1.0	U	U	Yes	
Benzene	5.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.4	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.4	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.4	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.4	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.4	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.4	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	11	ug/kg	1.0	U	U	Yes	
Toluene	0.25	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.4	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.4	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.4	ug/kg	1.0	U	U	Yes	
2-Hexanone	11	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.4	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.4	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.4	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.4	ug/kg	1.0	U	U	Yes	
o-Xylene	5.4	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.4	ug/kg	1.0	U	U	Yes	
Styrene	5.4	ug/kg	1.0	U	U	Yes	
Bromoform	5.4	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.4	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.4	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.4	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.4	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS5	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-12	pH: 7.5	Sample Date: 08102011	Sample Time: 10:15:00
% Moisture : 20.3909		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.1	ug/kg	1.0	JP	U	Yes	
beta-BHC	0.76	ug/kg	1.0	JP	J	Yes	
delta-BHC	2.1	ug/kg	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.18	ug/kg	1.0	J	J	Yes	
Heptachlor	2.1	ug/kg	1.0	U	U	Yes	
Aldrin	2.1	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	26	ug/kg	1.0	P	J	Yes	
Endosulfan I	2.1	ug/kg	1.0	U	U	Yes	
Dieldrin	140	ug/kg	1.0	EP	J	Yes	
4,4'-DDE	160	ug/kg	1.0	E	J	Yes	
Endrin	35	ug/kg	1.0	P	J	Yes	
Endosulfan II	30	ug/kg	1.0	P	J	Yes	
4,4'-DDD	4.0	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	4.0	ug/kg	1.0	JP	U	Yes	
4,4'-DDT	410	ug/kg	1.0	E	J	Yes	
Methoxychlor	7.3	ug/kg	1.0	JP	J	Yes	
Endrin ketone	4.7	ug/kg	1.0	BP	J	Yes	
Endrin aldehyde	4.0	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	53	ug/kg	1.0	EP	J	Yes	
gamma-Chlordane	53	ug/kg	1.0	EP	J	Yes	
Toxaphene	210	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS5	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-12	pH: 7.5	Sample Date: 08102011	Sample Time: 10:15:00
% Moisture : 20.3909		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/kg	1.0	JB	UJ	Yes	
Phenol	210	ug/kg	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	210	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	210	ug/kg	1.0	U	U	Yes	
2-Methylphenol	210	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	210	ug/kg	1.0	U	U	Yes	
Acetophenone	210	ug/kg	1.0	U	U	Yes	
4-Methylphenol	210	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	210	ug/kg	1.0	U	U	Yes	
Hexachloroethane	210	ug/kg	1.0	U	U	Yes	
Nitrobenzene	210	ug/kg	1.0	U	U	Yes	
Isophorone	210	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	210	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	210	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	210	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	210	ug/kg	1.0	U	U	Yes	
Naphthalene	8.0	ug/kg	1.0	J	J	Yes	
4-Chloroaniline	210	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	210	ug/kg	1.0	U	U	Yes	
Caprolactam	210	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	210	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	8.2	ug/kg	1.0	J	J	Yes	
Hexachlorocyclopentadiene	210	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	210	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	210	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	210	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	210	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	400	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	210	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	210	ug/kg	1.0	U	U	Yes	
Acenaphthylene	7.7	ug/kg	1.0	J	J	Yes	
3-Nitroaniline	400	ug/kg	1.0	U	U	Yes	
Acenaphthene	210	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	400	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	400	ug/kg	1.0	U	U	Yes	
Dibenzofuran	210	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	210	ug/kg	1.0	U	U	Yes	
Diethylphthalate	210	ug/kg	1.0	U	U	Yes	
Fluorene	210	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	210	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	400	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	400	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	210	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	210	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	210	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	210	ug/kg	1.0	U	U	Yes	
Atrazine	210	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	400	ug/kg	1.0	U	U	Yes	
Phenanthrene	50	ug/kg	1.0	J	J	Yes	
Anthracene	11	ug/kg	1.0	J	J	Yes	
Carbazole	9.5	ug/kg	1.0	J	J	Yes	
Di-n-butylphthalate	7.6	ug/kg	1.0	J	J	Yes	
Fluoranthene	130	ug/kg	1.0	J	J	Yes	
Pyrene	82	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	210	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	210	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	65	ug/kg	1.0	J	J	Yes	
Chrysene	85	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	5500	ug/kg	1.0	E	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5500	ug/kg	1.0	E	J	Yes	
Di-n-octylphthalate	210	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	120	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	34	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	69	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	61	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	14	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	44	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	210	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	130	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-	120	ug/kg	1.0	JN	NJ	Yes	
2,3,3',4',5',6-Hexachloro-1,1'-biphenyl	160	ug/kg	1.0	JN	NJ	Yes	
2,2',3,4',5-Pentachloro-1,1'-biphenyl	170	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	220	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	2200	ug/kg	1.0	J	J	Yes	
1,1'-Biphenyl, 2,2',4,5,5'-pentachloro-	110	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	82	ug/kg	1.0	JN	NJ	Yes	
2,3,3',5,5',6-Hexachloro-1,1'-biphenyl	270	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,2',3,3',5-pentachloro-	280	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,2',3,3',4,6-Hexachloro-	140	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,2',3,5,5'-pentachloro-	290	ug/kg	1.0	JN	NJ	Yes	
9-Octadecenamide, (Z)-	150	ug/kg	1.0	JN	NJ	Yes	
1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	290	ug/kg	1.0	JN	NJ	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS5	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-12	pH: 7.5	Sample Date: 08102011	Sample Time: 10:15:00
% Moisture : 20.3909		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	40	ug/kg	1.0	U	U	Yes	
Aroclor-1221	40	ug/kg	1.0	U	U	Yes	
Aroclor-1232	40	ug/kg	1.0	U	U	Yes	
Aroclor-1242	40	ug/kg	1.0	U	U	Yes	
Aroclor-1248	40	ug/kg	1.0	U	U	Yes	
Aroclor-1254	2100	ug/kg	1.0	EP	J	Yes	
Aroclor-1260	530	ug/kg	1.0	EP	J	Yes	
Aroclor-1262	40	ug/kg	1.0	U	U	Yes	
Aroclor-1268	40	ug/kg	1.0	U	U	Yes	

Case No:	41647	Contract:	EPW11037	SDG No:	E5KR4	Lab Code:	DATAC
Sample Number:	E5KS5DL	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	7.5	Sample Date:	08102011	Sample Time:	10:15:00
% Moisture :	20.3909			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	400	ug/kg	10.0	U	U	Yes	
Aroclor-1221	400	ug/kg	10.0	U	U	Yes	
Aroclor-1232	400	ug/kg	10.0	U	U	Yes	
Aroclor-1242	400	ug/kg	10.0	U	U	Yes	
Aroclor-1248	400	ug/kg	10.0	U	U	Yes	
Aroclor-1254	5000	ug/kg	10.0	D		Yes	
Aroclor-1260	3500	ug/kg	10.0	DP	J	Yes	
Aroclor-1262	400	ug/kg	10.0	U	U	Yes	
Aroclor-1268	400	ug/kg	10.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS5DL	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.5	Sample Date: 08102011	Sample Time: 10:15:00
% Moisture : 20.3909		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	21	ug/kg	10.0	U	U	Yes	
beta-BHC	21	ug/kg	10.0	U	U	Yes	
delta-BHC	21	ug/kg	10.0	U	U	Yes	
gamma-BHC (Lindane)	21	ug/kg	10.0	U	U	Yes	
Heptachlor	21	ug/kg	10.0	U	U	Yes	
Aldrin	21	ug/kg	10.0	U	U	Yes	
Heptachlor epoxide	39	ug/kg	10.0	DP	J	Yes	
Endosulfan I	21	ug/kg	10.0	U	U	Yes	
Dieldrin	170	ug/kg	10.0	DP	J	Yes	
4,4'-DDE	210	ug/kg	10.0	D		Yes	
Endrin	51	ug/kg	10.0	DP	J	Yes	
Endosulfan II	39	ug/kg	10.0	JDP	J	Yes	
4,4'-DDD	40	ug/kg	10.0	U	U	Yes	
Endosulfan sulfate	40	ug/kg	10.0	U	U	Yes	
4,4'-DDT	170	ug/kg	10.0	DP	J	Yes	
Methoxychlor	210	ug/kg	10.0	U	U	Yes	
Endrin ketone	40	ug/kg	10.0	JBDP	U	Yes	
Endrin aldehyde	77	ug/kg	10.0	DP	J	Yes	
alpha-Chlordane	59	ug/kg	10.0	DP	J	Yes	
gamma-Chlordane	67	ug/kg	10.0	DP	J	Yes	
Toxaphene	2100	ug/kg	10.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS5DL	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-12	pH: 7.5	Sample Date: 08102011	Sample Time: 10:15:00
% Moisture : 20.3909		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	1000	ug/kg	5.0	U	U	Yes	
Phenol	1000	ug/kg	5.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	1000	ug/kg	5.0	U	U	Yes	
2-Chlorophenol	1000	ug/kg	5.0	U	U	Yes	
2-Methylphenol	1000	ug/kg	5.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	1000	ug/kg	5.0	U	U	Yes	
Acetophenone	1000	ug/kg	5.0	U	U	Yes	
4-Methylphenol	1000	ug/kg	5.0	U	U	Yes	
N-Nitroso-di-n-propylamine	1000	ug/kg	5.0	U	U	Yes	
Hexachloroethane	1000	ug/kg	5.0	U	U	Yes	
Nitrobenzene	1000	ug/kg	5.0	U	U	Yes	
Isophorone	1000	ug/kg	5.0	U	U	Yes	
2-Nitrophenol	1000	ug/kg	5.0	U	U	Yes	
2,4-Dimethylphenol	1000	ug/kg	5.0	U	U	Yes	
Bis(2-chloroethoxy)methane	1000	ug/kg	5.0	U	U	Yes	
2,4-Dichlorophenol	1000	ug/kg	5.0	U	U	Yes	
Naphthalene	1000	ug/kg	5.0	U	U	Yes	
4-Chloroaniline	1000	ug/kg	5.0	U	U	Yes	
Hexachlorobutadiene	1000	ug/kg	5.0	U	U	Yes	
Caprolactam	1000	ug/kg	5.0	U	U	Yes	
4-Chloro-3-methylphenol	1000	ug/kg	5.0	U	U	Yes	
2-Methylnaphthalene	1000	ug/kg	5.0	U	U	Yes	
Hexachlorocyclopentadiene	1000	ug/kg	5.0	U	U	Yes	
2,4,6-Trichlorophenol	1000	ug/kg	5.0	U	U	Yes	
2,4,5-Trichlorophenol	1000	ug/kg	5.0	U	U	Yes	
1,1'-Biphenyl	1000	ug/kg	5.0	U	U	Yes	
2-Chloronaphthalene	1000	ug/kg	5.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	2000	ug/kg	5.0	U	U	Yes	
Dimethylphthalate	1000	ug/kg	5.0	U	U	Yes	
2,6-Dinitrotoluene	1000	ug/kg	5.0	U	U	Yes	
Acenaphthylene	1000	ug/kg	5.0	U	U	Yes	
3-Nitroaniline	2000	ug/kg	5.0	U	U	Yes	
Acenaphthene	1000	ug/kg	5.0	U	U	Yes	
2,4-Dinitrophenol	2000	ug/kg	5.0	U	U	Yes	
4-Nitrophenol	2000	ug/kg	5.0	U	U	Yes	
Dibenzofuran	1000	ug/kg	5.0	U	U	Yes	
2,4-Dinitrotoluene	1000	ug/kg	5.0	U	U	Yes	
Diethylphthalate	1000	ug/kg	5.0	U	U	Yes	
Fluorene	1000	ug/kg	5.0	U	U	Yes	
4-Chlorophenyl-phenylether	1000	ug/kg	5.0	U	U	Yes	
4-Nitroaniline	2000	ug/kg	5.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	2000	ug/kg	5.0	U	U	Yes	
N-Nitrosodiphenylamine	1000	ug/kg	5.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	1000	ug/kg	5.0	U	U	Yes	
4-Bromophenyl-phenylether	1000	ug/kg	5.0	U	U	Yes	
Hexachlorobenzene	1000	ug/kg	5.0	U	U	Yes	
Atrazine	1000	ug/kg	5.0	U	U	Yes	
Pentachlorophenol	2000	ug/kg	5.0	U	U	Yes	
Phenanthrene	47	ug/kg	5.0	JD	J	Yes	
Anthracene	1000	ug/kg	5.0	U	U	Yes	
Carbazole	1000	ug/kg	5.0	U	U	Yes	
Di-n-butylphthalate	1000	ug/kg	5.0	U	U	Yes	
Fluoranthene	120	ug/kg	5.0	JD	J	Yes	
Pyrene	83	ug/kg	5.0	JD	J	Yes	
Butylbenzylphthalate	1000	ug/kg	5.0	U	U	Yes	
3,3'-Dichlorobenzidine	1000	ug/kg	5.0	U	U	Yes	
Benzo(a)anthracene	73	ug/kg	5.0	JD	J	Yes	
Chrysene	65	ug/kg	5.0	JD	J	Yes	
Bis(2-ethylhexyl)	3600	ug/kg	5.0	D		Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	3600	ug/kg	5.0	D		Yes	
Di-n-octylphthalate	1000	ug/kg	5.0	U	U	Yes	
Benzo(b)fluoranthene	100	ug/kg	5.0	JD	J	Yes	
Benzo(k)fluoranthene	33	ug/kg	5.0	JD	J	Yes	
Benzo(a)pyrene	68	ug/kg	5.0	JD	J	Yes	
Indeno(1,2,3-cd)pyrene	69	ug/kg	5.0	JD	J	Yes	
Dibenzo(a,h)anthracene	1000	ug/kg	5.0	U	U	Yes	
Benzo(g,h,i)perylene	46	ug/kg	5.0	JD	J	Yes	
2,3,4,6-Tetrachlorophenol	1000	ug/kg	5.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS5RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-12	pH:	Sample Date: 08102011	Sample Time: 10:15:00
% Moisture : 20.3909		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.2	ug/kg	1.0	U	U	Yes	
Chloromethane	5.2	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.2	ug/kg	1.0	U	U	Yes	
Bromomethane	5.2	ug/kg	1.0	U	U	Yes	
Chloroethane	5.2	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.2	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	ug/kg	1.0	U	U	Yes	
Acetone	10	ug/kg	1.0	U	U	Yes	
Carbon disulfide	5.2	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.2	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.2	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.2	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	
2-Butanone	10	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.2	ug/kg	1.0	U	U	Yes	
Chloroform	5.2	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.2	ug/kg	1.0	U	R	Yes	
Cyclohexane	5.2	ug/kg	1.0	U	R	Yes	
Carbon tetrachloride	5.2	ug/kg	1.0	U	R	Yes	
Benzene	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.2	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dichloropropane	5.2	ug/kg	1.0	U	R	Yes	
Bromodichlorom	5.2	ug/kg	1.0	U	R	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.2	ug/kg	1.0	U	R	Yes	
cis-1,3-Dichloropropene	5.2	ug/kg	1.0	U	R	Yes	
4-Methyl-2-Pentanone	10	ug/kg	1.0	U	R	Yes	
Toluene	0.82	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.2	ug/kg	1.0	U	R	Yes	
1,1,2-Trichloroethane	5.2	ug/kg	1.0	U	R	Yes	
Tetrachloroethene	0.16	ug/kg	1.0	J	J	Yes	
2-Hexanone	10	ug/kg	1.0	U	R	Yes	
Dibromochloromethane	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dibromoethane	5.2	ug/kg	1.0	U	R	Yes	
Chlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
Ethylbenzene	5.2	ug/kg	1.0	U	R	Yes	
o-Xylene	5.2	ug/kg	1.0	U	R	Yes	
m,p-Xylene	0.20	ug/kg	1.0	J	J	Yes	
Styrene	5.2	ug/kg	1.0	U	R	Yes	
Bromoform	5.2	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.2	ug/kg	1.0	U	R	Yes	
1,1,2,2-Tetrachloroethane	5.2	ug/kg	1.0	U	R	Yes	
1,3-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.2	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-13	pH: 7.4	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.0	ug/kg	1.0	U	U	Yes	
beta-BHC	2.0	ug/kg	1.0	U	U	Yes	
delta-BHC	2.0	ug/kg	1.0	JBP	U	Yes	
gamma-BHC (Lindane)	2.0	ug/kg	1.0	JP	U	Yes	
Heptachlor	2.0	ug/kg	1.0	U	U	Yes	
Aldrin	2.0	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	0.67	ug/kg	1.0	JP	J	Yes	
Endosulfan I	2.0	ug/kg	1.0	JBP	U	Yes	
Dieldrin	3.8	ug/kg	1.0	JP	U	Yes	
4,4'-DDE	1.7	ug/kg	1.0	JP	J	Yes	
Endrin	3.8	ug/kg	1.0	JP	U	Yes	
Endosulfan II	0.99	ug/kg	1.0	JP	J	Yes	
4,4'-DDD	3.8	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	3.8	ug/kg	1.0	U	U	Yes	
4,4'-DDT	9.2	ug/kg	1.0			Yes	
Methoxychlor	20	ug/kg	1.0	U	U	Yes	
Endrin ketone	3.8	ug/kg	1.0	U	U	Yes	
Endrin aldehyde	3.8	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
Toxaphene	200	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-13	pH:	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	U	Yes	
Chloromethane	5.0	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/kg	1.0	U	U	Yes	
Bromomethane	5.0	ug/kg	1.0	U	U	Yes	
Chloroethane	5.0	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/kg	1.0	U	UJ	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/kg	1.0	U	U	Yes	
Acetone	10	ug/kg	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.0	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.0	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Butanone	10	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/kg	1.0	U	U	Yes	
Chloroform	5.0	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.0	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/kg	1.0	U	U	Yes	
Benzene	5.0	ug/kg	1.0	U	UJ	Yes	
1,2-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.0	ug/kg	1.0	U	UJ	Yes	
Methylcyclohexa ne	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/kg	1.0	U	U	Yes	
Toluene	0.19	ug/kg	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Hexanone	10	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/kg	1.0	U	UJ	Yes	
Ethylbenzene	5.0	ug/kg	1.0	U	U	Yes	
o-Xylene	5.0	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/kg	1.0	U	U	Yes	
Styrene	5.0	ug/kg	1.0	U	U	Yes	
Bromoform	5.0	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.0	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.0	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.0	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.0	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-13	pH: 7.4	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	8.6	ug/kg	1.0	J	J	Yes	
Phenol	200	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	200	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	200	ug/kg	1.0	U	U	Yes	
2-Methylphenol	200	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	200	ug/kg	1.0	U	U	Yes	
Acetophenone	200	ug/kg	1.0	U	U	Yes	
4-Methylphenol	200	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	200	ug/kg	1.0	U	U	Yes	
Hexachloroethane	200	ug/kg	1.0	U	U	Yes	
Nitrobenzene	200	ug/kg	1.0	U	U	Yes	
Isophorone	200	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	200	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	200	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	200	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	200	ug/kg	1.0	U	U	Yes	
Naphthalene	200	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	200	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	200	ug/kg	1.0	U	U	Yes	
Caprolactam	200	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	200	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	200	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	200	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	200	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	200	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	200	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	200	ug/kg	1.0	U	U	Yes	
Acenaphthylene	200	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
Acenaphthene	200	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	380	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	380	ug/kg	1.0	U	U	Yes	
Dibenzofuran	200	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	200	ug/kg	1.0	U	U	Yes	
Diethylphthalate	200	ug/kg	1.0	U	U	Yes	
Fluorene	200	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	380	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	200	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	200	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	200	ug/kg	1.0	U	U	Yes	
Atrazine	200	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	380	ug/kg	1.0	U	U	Yes	
Phenanthrene	10	ug/kg	1.0	J	J	Yes	
Anthracene	200	ug/kg	1.0	U	U	Yes	
Carbazole	200	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	6.6	ug/kg	1.0	J	J	Yes	
Fluoranthene	24	ug/kg	1.0	J	J	Yes	
Pyrene	19	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	200	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	200	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	14	ug/kg	1.0	J	J	Yes	
Chrysene	14	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	1000	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1000	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	200	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	21	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	7.1	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	14	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	14	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	200	ug/kg	1.0	U	U	Yes	
Benzo(g,h,i)perylene	9.7	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	200	ug/kg	1.0	U	U	Yes	
n-Hexadecanoic acid	82	ug/kg	1.0	JN	NJ	Yes	
7-Hexadecen-1-ol, acetate, (Z)-	120	ug/kg	1.0	JN	NJ	Yes	
Total Alkanes	1400	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-13	pH: 7.4	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	38	ug/kg	1.0	U	U	Yes	
Aroclor-1221	38	ug/kg	1.0	U	U	Yes	
Aroclor-1232	38	ug/kg	1.0	U	U	Yes	
Aroclor-1242	38	ug/kg	1.0	U	U	Yes	
Aroclor-1248	38	ug/kg	1.0	U	U	Yes	
Aroclor-1254	98	ug/kg	1.0			Yes	
Aroclor-1260	38	ug/kg	1.0	U	U	Yes	
Aroclor-1262	38	ug/kg	1.0	U	U	Yes	
Aroclor-1268	38	ug/kg	1.0	U	U	Yes	

Case No:	41647	Contract:	EPW11037	SDG No:	E5KR4	Lab Code:	DATAC
Sample Number:	E5KS6MS	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	7.4	Sample Date:	08092011	Sample Time:	16:00:00
% Moisture :	13.5534			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	110	ug/kg	1.0	P	J	Yes	
Aroclor-1260	50	ug/kg	1.0	P	J	Yes	
Aroclor-1221	38	ug/kg	1.0	U	U	Yes	
Aroclor-1232	38	ug/kg	1.0	U	U	Yes	
Aroclor-1242	38	ug/kg	1.0	U	U	Yes	
Aroclor-1248	38	ug/kg	1.0	U	U	Yes	
Aroclor-1254	38	ug/kg	1.0	U	U	Yes	
Aroclor-1262	38	ug/kg	1.0	U	U	Yes	
Aroclor-1268	38	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6MS	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.4	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Phenol	820	ug/kg	1.0			Yes	
Benzaldehyde	7.3	ug/kg	1.0	J	J	Yes	
2-Chlorophenol	840	ug/kg	1.0			Yes	
N-Nitroso-di-n-propylamine	890	ug/kg	1.0			Yes	
Bis(2-chloroethyl)ether	200	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	880	ug/kg	1.0			Yes	
2-Methylphenol	200	ug/kg	1.0	U	U	Yes	
Acenaphthene	950	ug/kg	1.0			Yes	
2,2'-Oxybis(1-chloropropane)	200	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	1400	ug/kg	1.0			Yes	
Acetophenone	200	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	920	ug/kg	1.0			Yes	
4-Methylphenol	200	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	840	ug/kg	1.0			Yes	
Pyrene	890	ug/kg	1.0		J	Yes	
Hexachloroethane	200	ug/kg	1.0	U	U	Yes	
Nitrobenzene	200	ug/kg	1.0	U	U	Yes	
Isophorone	200	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	200	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	200	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	200	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	200	ug/kg	1.0	U	U	Yes	
Naphthalene	200	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	200	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	200	ug/kg	1.0	U	U	Yes	
Caprolactam	200	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	200	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	200	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2,4,6-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	200	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	200	ug/kg	1.0	U	U	Yes	
2-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	200	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	200	ug/kg	1.0	U	U	Yes	
Acenaphthylene	200	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	380	ug/kg	1.0	U	U	Yes	
Dibenzofuran	200	ug/kg	1.0	U	U	Yes	
Diethylphthalate	200	ug/kg	1.0	U	U	Yes	
Fluorene	200	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	380	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	200	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	200	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	200	ug/kg	1.0	U	U	Yes	
Atrazine	200	ug/kg	1.0	U	U	Yes	
Phenanthrene	29	ug/kg	1.0	J	J	Yes	
Anthracene	7.4	ug/kg	1.0	J	J	Yes	
Carbazole	200	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	200	ug/kg	1.0	U	U	Yes	
Fluoranthene	53	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	200	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	200	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	25	ug/kg	1.0	J	J	Yes	
Chrysene	24	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	1000	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1000	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	200	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	33	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	9.3	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	24	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	20	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	200	ug/kg	1.0	U	U	Yes	
Benzo(g,h,i)perylene	13	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	7.2	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6MS	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-13	pH:	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.8	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	52	ug/kg	1.0			Yes	
Benzene	56	ug/kg	1.0		J	Yes	
Chloromethane	5.8	ug/kg	1.0	U	U	Yes	
Trichloroethene	46	ug/kg	1.0			Yes	
Vinyl chloride	5.8	ug/kg	1.0	U	U	Yes	
Bromomethane	5.8	ug/kg	1.0	U	U	Yes	
Toluene	43	ug/kg	1.0			Yes	
Chloroethane	5.8	ug/kg	1.0	U	U	Yes	
Chlorobenzene	34	ug/kg	1.0			Yes	
Trichlorofluorom ethane	5.8	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	ug/kg	1.0	U	U	Yes	
Acetone	6.6	ug/kg	1.0	J	J	Yes	
Carbon disulfide	5.8	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.8	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.8	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.8	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.8	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.8	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.8	ug/kg	1.0	U	U	Yes	
2-Butanone	12	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.8	ug/kg	1.0	U	U	Yes	
Chloroform	5.8	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.8	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.8	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.8	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.8	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	120	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	5.8	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	5.8	ug/kg	1.0	U	U	Yes	
Bromodichloromethane	5.8	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.8	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	12	ug/kg	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.8	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.8	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.8	ug/kg	1.0	U	U	Yes	
2-Hexanone	12	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.8	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.8	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.8	ug/kg	1.0	U	U	Yes	
o-Xylene	5.8	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.8	ug/kg	1.0	U	U	Yes	
Styrene	5.8	ug/kg	1.0	U	U	Yes	
Bromoform	5.8	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.8	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.8	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.8	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.8	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.8	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.8	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.8	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.8	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6MS	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.4	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.0	ug/kg	1.0	U	U	Yes	
gamma-BHC (Lindane)	11	ug/kg	1.0			Yes	
Heptachlor	11	ug/kg	1.0			Yes	
beta-BHC	2.0	ug/kg	1.0	U	U	Yes	
Aldrin	12	ug/kg	1.0			Yes	
delta-BHC	2.0	ug/kg	1.0	JBP	U	Yes	
Dieldrin	26	ug/kg	1.0			Yes	
Endrin	29	ug/kg	1.0			Yes	
4,4'-DDT	31	ug/kg	1.0			Yes	
Heptachlor epoxide	2.0	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.0	ug/kg	1.0	JBP	U	Yes	
4,4'-DDE	1.6	ug/kg	1.0	JP	J	Yes	
Endosulfan II	3.8	ug/kg	1.0	JP	U	Yes	
4,4'-DDD	3.8	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	3.8	ug/kg	1.0	U	U	Yes	
Methoxychlor	20	ug/kg	1.0	U	U	Yes	
Endrin ketone	0.87	ug/kg	1.0	JB	J	Yes	
Endrin aldehyde	3.8	ug/kg	1.0	JP	U	Yes	
alpha-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
Toxaphene	200	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6MSD	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.4	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.0	ug/kg	1.0	U	U	Yes	
gamma-BHC (Lindane)	12	ug/kg	1.0			Yes	
Heptachlor	12	ug/kg	1.0			Yes	
beta-BHC	2.0	ug/kg	1.0	U	U	Yes	
delta-BHC	2.0	ug/kg	1.0	JBP	U	Yes	
Aldrin	12	ug/kg	1.0			Yes	
Dieldrin	27	ug/kg	1.0			Yes	
Endrin	28	ug/kg	1.0			Yes	
4,4'-DDT	32	ug/kg	1.0			Yes	
Heptachlor epoxide	2.0	ug/kg	1.0	JP	U	Yes	
Endosulfan I	2.0	ug/kg	1.0	JBP	U	Yes	
4,4'-DDE	1.6	ug/kg	1.0	JP	J	Yes	
Endosulfan II	3.8	ug/kg	1.0	JP	U	Yes	
4,4'-DDD	3.8	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	3.8	ug/kg	1.0	U	U	Yes	
Methoxychlor	20	ug/kg	1.0	U	U	Yes	
Endrin ketone	1.3	ug/kg	1.0	JB	J	Yes	
Endrin aldehyde	3.8	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	2.0	ug/kg	1.0	U	U	Yes	
Toxaphene	200	ug/kg	1.0	U	U	Yes	

Case No:	41647	Contract:	EPW11037	SDG No:	E5KR4	Lab Code:	DATAC
Sample Number:	E5KS6MSD	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	7.4	Sample Date:	08092011	Sample Time:	16:00:00
% Moisture :	13.5534			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	120	ug/kg	1.0			Yes	
Aroclor-1260	52	ug/kg	1.0	P	J	Yes	
Aroclor-1221	38	ug/kg	1.0	U	U	Yes	
Aroclor-1232	38	ug/kg	1.0	U	U	Yes	
Aroclor-1242	38	ug/kg	1.0	U	U	Yes	
Aroclor-1248	38	ug/kg	1.0	U	U	Yes	
Aroclor-1254	38	ug/kg	1.0	U	U	Yes	
Aroclor-1262	38	ug/kg	1.0	U	U	Yes	
Aroclor-1268	38	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6MSD	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 7.4	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	200	ug/kg	1.0	U	U	Yes	
Phenol	770	ug/kg	1.0			Yes	
2-Chlorophenol	790	ug/kg	1.0			Yes	
N-Nitroso-di-n-propylamine	900	ug/kg	1.0			Yes	
Bis(2-chloroethyl)ether	200	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	780	ug/kg	1.0			Yes	
Acenaphthene	940	ug/kg	1.0			Yes	
2-Methylphenol	200	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	1500	ug/kg	1.0			Yes	
2,2'-Oxybis(1-chloropropane)	200	ug/kg	1.0	U	U	Yes	
Acetophenone	200	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	920	ug/kg	1.0			Yes	
4-Methylphenol	200	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	710	ug/kg	1.0			Yes	
Pyrene	870	ug/kg	1.0		J	Yes	
Hexachloroethane	200	ug/kg	1.0	U	U	Yes	
Nitrobenzene	200	ug/kg	1.0	U	U	Yes	
Isophorone	200	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	200	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	200	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	200	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	200	ug/kg	1.0	U	U	Yes	
Naphthalene	200	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	200	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	200	ug/kg	1.0	U	U	Yes	
Caprolactam	200	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	200	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	200	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2,4,6-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	200	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	200	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	200	ug/kg	1.0	U	U	Yes	
2-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	200	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	200	ug/kg	1.0	U	U	Yes	
Acenaphthylene	200	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	380	ug/kg	1.0	U	U	Yes	
Dibenzofuran	200	ug/kg	1.0	U	U	Yes	
Diethylphthalate	200	ug/kg	1.0	U	U	Yes	
Fluorene	200	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	380	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	380	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	200	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	200	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	200	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	200	ug/kg	1.0	U	U	Yes	
Atrazine	200	ug/kg	1.0	U	U	Yes	
Phenanthrene	27	ug/kg	1.0	J	J	Yes	
Anthracene	7.1	ug/kg	1.0	J	J	Yes	
Carbazole	200	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	200	ug/kg	1.0	U	U	Yes	
Fluoranthene	50	ug/kg	1.0	J	J	Yes	
Butylbenzylphthalate	200	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	200	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	25	ug/kg	1.0	J	J	Yes	
Chrysene	22	ug/kg	1.0	J	J	Yes	
Bis(2-ethylhexyl)	1000	ug/kg	1.0	JB	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	1000	ug/kg	1.0	JB	U	Yes	
Di-n-octylphthalate	200	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	34	ug/kg	1.0	J	J	Yes	
Benzo(k)fluoranthene	14	ug/kg	1.0	J	J	Yes	
Benzo(a)pyrene	26	ug/kg	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	30	ug/kg	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	13	ug/kg	1.0	J	J	Yes	
Benzo(g,h,i)perylene	22	ug/kg	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	8.1	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: E5KS6MSD	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-13	pH:	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture : 13.5534		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1-Dichloroethene	71	ug/kg	1.0			Yes	
Dichlorodifluoro methane	5.2	ug/kg	1.0	U	U	Yes	
Chloromethane	5.2	ug/kg	1.0	U	U	Yes	
Benzene	88	ug/kg	1.0		J	Yes	
Trichloroethene	75	ug/kg	1.0		J	Yes	
Vinyl chloride	5.2	ug/kg	1.0	U	U	Yes	
Bromomethane	5.2	ug/kg	1.0	U	U	Yes	
Toluene	69	ug/kg	1.0		J	Yes	
Chlorobenzene	55	ug/kg	1.0		J	Yes	
Chloroethane	5.2	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.2	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	ug/kg	1.0	U	U	Yes	
Acetone	6.1	ug/kg	1.0	J	J	Yes	
Carbon disulfide	5.2	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.2	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.2	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.2	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	
2-Butanone	10	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.2	ug/kg	1.0	U	U	Yes	
Chloroform	5.2	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.2	ug/kg	1.0	U	R	Yes	
Cyclohexane	5.2	ug/kg	1.0	U	R	Yes	
Carbon tetrachloride	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	
Methylcyclohexa ne	5.2	ug/kg	1.0	U	R	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	5.2	ug/kg	1.0	U	R	Yes	
Bromodichloromethane	5.2	ug/kg	1.0	U	R	Yes	
cis-1,3-Dichloropropene	5.2	ug/kg	1.0	U	R	Yes	
4-Methyl-2-Pentanone	10	ug/kg	1.0	U	R	Yes	
trans-1,3-Dichloropropene	5.2	ug/kg	1.0	U	R	Yes	
1,1,2-Trichloroethane	5.2	ug/kg	1.0	U	R	Yes	
Tetrachloroethene	5.2	ug/kg	1.0	U	R	Yes	
2-Hexanone	10	ug/kg	1.0	U	R	Yes	
Dibromochloromethane	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dibromoethane	5.2	ug/kg	1.0	U	R	Yes	
Ethylbenzene	5.2	ug/kg	1.0	U	R	Yes	
o-Xylene	5.2	ug/kg	1.0	U	R	Yes	
m,p-Xylene	5.2	ug/kg	1.0	U	R	Yes	
Styrene	5.2	ug/kg	1.0	U	R	Yes	
Bromoform	5.2	ug/kg	1.0	U	R	Yes	
Isopropylbenzene	5.2	ug/kg	1.0	U	R	Yes	
1,1,2,2-Tetrachloroethane	5.2	ug/kg	1.0	U	R	Yes	
1,3-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,4-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,2-Dibromo-3-chloropropane	5.2	ug/kg	1.0	U	R	Yes	
1,2,4-Trichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	
1,2,3-Trichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: PBLKS1	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.7	ug/kg	1.0	U	U	Yes	
beta-BHC	1.7	ug/kg	1.0	U	U	Yes	
delta-BHC	1.7	ug/kg	1.0	JP	U	Yes	
gamma-BHC (Lindane)	1.7	ug/kg	1.0	U	U	Yes	
Heptachlor	1.7	ug/kg	1.0	U	U	Yes	
Aldrin	1.7	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	1.7	ug/kg	1.0	U	U	Yes	
Endosulfan I	1.7	ug/kg	1.0	JP	U	Yes	
Dieldrin	3.3	ug/kg	1.0	U	U	Yes	
4,4'-DDE	3.3	ug/kg	1.0	U	U	Yes	
Endrin	3.3	ug/kg	1.0	U	U	Yes	
Endosulfan II	3.3	ug/kg	1.0	U	U	Yes	
4,4'-DDD	3.3	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	3.3	ug/kg	1.0	U	U	Yes	
4,4'-DDT	3.3	ug/kg	1.0	U	U	Yes	
Methoxychlor	17	ug/kg	1.0	U	U	Yes	
Endrin ketone	3.3	ug/kg	1.0	JP	U	Yes	
Endrin aldehyde	3.3	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	1.7	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	1.7	ug/kg	1.0	U	U	Yes	
Toxaphene	170	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: PBLKS2	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.7	ug/kg	1.0	U	U	Yes	
beta-BHC	1.7	ug/kg	1.0	U	U	Yes	
delta-BHC	1.7	ug/kg	1.0	JP	U	Yes	
gamma-BHC (Lindane)	1.7	ug/kg	1.0	U	U	Yes	
Heptachlor	1.7	ug/kg	1.0	U	U	Yes	
Aldrin	1.7	ug/kg	1.0	U	U	Yes	
Heptachlor epoxide	1.7	ug/kg	1.0	U	U	Yes	
Endosulfan I	1.7	ug/kg	1.0	U	U	Yes	
Dieldrin	3.3	ug/kg	1.0	U	U	Yes	
4,4'-DDE	3.3	ug/kg	1.0	U	U	Yes	
Endrin	3.3	ug/kg	1.0	U	U	Yes	
Endosulfan II	3.3	ug/kg	1.0	U	U	Yes	
4,4'-DDD	3.3	ug/kg	1.0	U	U	Yes	
Endosulfan sulfate	3.3	ug/kg	1.0	U	U	Yes	
4,4'-DDT	3.3	ug/kg	1.0	U	U	Yes	
Methoxychlor	17	ug/kg	1.0	U	U	Yes	
Endrin ketone	3.3	ug/kg	1.0	JP	U	Yes	
Endrin aldehyde	3.3	ug/kg	1.0	U	U	Yes	
alpha-Chlordane	1.7	ug/kg	1.0	U	U	Yes	
gamma-Chlordane	1.7	ug/kg	1.0	U	U	Yes	
Toxaphene	170	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: SBLK03	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	170	ug/kg	1.0	U	U	Yes	
Phenol	170	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	170	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	170	ug/kg	1.0	U	U	Yes	
2-Methylphenol	170	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	170	ug/kg	1.0	U	U	Yes	
Acetophenone	170	ug/kg	1.0	U	U	Yes	
4-Methylphenol	170	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	170	ug/kg	1.0	U	U	Yes	
Hexachloroethane	170	ug/kg	1.0	U	U	Yes	
Nitrobenzene	170	ug/kg	1.0	U	U	Yes	
Isophorone	170	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	170	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	170	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	170	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	170	ug/kg	1.0	U	U	Yes	
Naphthalene	170	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	170	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	170	ug/kg	1.0	U	U	Yes	
Caprolactam	170	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	170	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	170	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	170	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	170	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	170	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	170	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	170	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	330	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	170	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	170	ug/kg	1.0	U	U	Yes	
Acenaphthylene	170	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	330	ug/kg	1.0	U	U	Yes	
Acenaphthene	170	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	330	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	330	ug/kg	1.0	U	U	Yes	
Dibenzofuran	170	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	170	ug/kg	1.0	U	U	Yes	
Diethylphthalate	170	ug/kg	1.0	U	U	Yes	
Fluorene	170	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	170	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	330	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	330	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	170	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	170	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	170	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	170	ug/kg	1.0	U	U	Yes	
Atrazine	170	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	330	ug/kg	1.0	U	U	Yes	
Phenanthrene	170	ug/kg	1.0	U	U	Yes	
Anthracene	170	ug/kg	1.0	U	U	Yes	
Carbazole	170	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	170	ug/kg	1.0	U	U	Yes	
Fluoranthene	170	ug/kg	1.0	U	U	Yes	
Pyrene	170	ug/kg	1.0	U	U	Yes	
Butylbenzylphthalate	170	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	170	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	170	ug/kg	1.0	U	U	Yes	
Chrysene	170	ug/kg	1.0	U	U	Yes	
Bis(2-ethylhexyl)	14	ug/kg	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	14	ug/kg	1.0	J	J	Yes	
Di-n-octylphthalate	170	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	170	ug/kg	1.0	U	U	Yes	
Benzo(k)fluoranthene	170	ug/kg	1.0	U	U	Yes	
Benzo(a)pyrene	170	ug/kg	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	170	ug/kg	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	170	ug/kg	1.0	U	U	Yes	
Benzo(g,h,i)perylene	170	ug/kg	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	170	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: SBLK32	Method: BNA	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.3	ug/kg	1.0	J	J	Yes	
Phenol	170	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	170	ug/kg	1.0	U	U	Yes	
2-Chlorophenol	170	ug/kg	1.0	U	U	Yes	
2-Methylphenol	170	ug/kg	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	170	ug/kg	1.0	U	U	Yes	
Acetophenone	170	ug/kg	1.0	U	U	Yes	
4-Methylphenol	170	ug/kg	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	170	ug/kg	1.0	U	U	Yes	
Hexachloroethane	170	ug/kg	1.0	U	U	Yes	
Nitrobenzene	170	ug/kg	1.0	U	U	Yes	
Isophorone	170	ug/kg	1.0	U	U	Yes	
2-Nitrophenol	170	ug/kg	1.0	U	U	Yes	
2,4-Dimethylphenol	170	ug/kg	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	170	ug/kg	1.0	U	U	Yes	
2,4-Dichlorophenol	170	ug/kg	1.0	U	U	Yes	
Naphthalene	170	ug/kg	1.0	U	U	Yes	
4-Chloroaniline	170	ug/kg	1.0	U	U	Yes	
Hexachlorobutadiene	170	ug/kg	1.0	U	U	Yes	
Caprolactam	170	ug/kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	170	ug/kg	1.0	U	U	Yes	
2-Methylnaphthalene	170	ug/kg	1.0	U	U	Yes	
Hexachlorocyclopentadiene	170	ug/kg	1.0	U	U	Yes	
2,4,6-Trichlorophenol	170	ug/kg	1.0	U	U	Yes	
2,4,5-Trichlorophenol	170	ug/kg	1.0	U	U	Yes	
1,1'-Biphenyl	170	ug/kg	1.0	U	U	Yes	
2-Chloronaphthalene	170	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	330	ug/kg	1.0	U	U	Yes	
Dimethylphthalate	170	ug/kg	1.0	U	U	Yes	
2,6-Dinitrotoluene	170	ug/kg	1.0	U	U	Yes	
Acenaphthylene	170	ug/kg	1.0	U	U	Yes	
3-Nitroaniline	330	ug/kg	1.0	U	U	Yes	
Acenaphthene	170	ug/kg	1.0	U	U	Yes	
2,4-Dinitrophenol	330	ug/kg	1.0	U	U	Yes	
4-Nitrophenol	330	ug/kg	1.0	U	U	Yes	
Dibenzofuran	170	ug/kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	170	ug/kg	1.0	U	U	Yes	
Diethylphthalate	170	ug/kg	1.0	U	U	Yes	
Fluorene	170	ug/kg	1.0	U	U	Yes	
4-Chlorophenyl-phenylether	170	ug/kg	1.0	U	U	Yes	
4-Nitroaniline	330	ug/kg	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	330	ug/kg	1.0	U	U	Yes	
N-Nitrosodiphenylamine	170	ug/kg	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	170	ug/kg	1.0	U	U	Yes	
4-Bromophenyl-phenylether	170	ug/kg	1.0	U	U	Yes	
Hexachlorobenzene	170	ug/kg	1.0	U	U	Yes	
Atrazine	170	ug/kg	1.0	U	U	Yes	
Pentachlorophenol	330	ug/kg	1.0	U	U	Yes	
Phenanthrene	170	ug/kg	1.0	U	U	Yes	
Anthracene	170	ug/kg	1.0	U	U	Yes	
Carbazole	170	ug/kg	1.0	U	U	Yes	
Di-n-butylphthalate	170	ug/kg	1.0	U	U	Yes	
Fluoranthene	170	ug/kg	1.0	U	U	Yes	
Pyrene	170	ug/kg	1.0	U	U	Yes	
Butylbenzylphthalate	170	ug/kg	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	170	ug/kg	1.0	U	U	Yes	
Benzo(a)anthracene	170	ug/kg	1.0	U	U	Yes	
Chrysene	170	ug/kg	1.0	U	U	Yes	
Bis(2-ethylhexyl)	170	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	170	ug/kg	1.0	U	U	Yes	
Di-n-octylphthalate	170	ug/kg	1.0	U	U	Yes	
Benzo(b)fluoranthene	170	ug/kg	1.0	U	U	Yes	
Benzo(k)fluoranthene	170	ug/kg	1.0	U	U	Yes	
Benzo(a)pyrene	170	ug/kg	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	170	ug/kg	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	170	ug/kg	1.0	U	U	Yes	
Benzo(g,h,i)perylene	170	ug/kg	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	170	ug/kg	1.0	U	U	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: VBLKS1	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	U	Yes	
Chloromethane	5.0	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/kg	1.0	U	U	Yes	
Bromomethane	5.0	ug/kg	1.0	U	U	Yes	
Chloroethane	5.0	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/kg	1.0	U	U	Yes	
Acetone	10	ug/kg	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.0	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.0	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Butanone	10	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/kg	1.0	U	U	Yes	
Chloroform	5.0	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.0	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/kg	1.0	U	U	Yes	
Benzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/kg	1.0	U	U	Yes	
Toluene	5.0	ug/kg	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Hexanone	10	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/kg	1.0	U	U	Yes	
o-Xylene	5.0	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/kg	1.0	U	U	Yes	
Styrene	5.0	ug/kg	1.0	U	U	Yes	
Bromoform	5.0	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	0.84	ug/kg	1.0	J	J	Yes	
1,2,3-Trichlorobenzene	1.8	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: VBLKS2	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	U	Yes	
Chloromethane	5.0	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/kg	1.0	U	U	Yes	
Bromomethane	5.0	ug/kg	1.0	U	U	Yes	
Chloroethane	5.0	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/kg	1.0	U	U	Yes	
Acetone	10	ug/kg	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.0	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.0	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Butanone	10	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/kg	1.0	U	U	Yes	
Chloroform	5.0	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.0	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/kg	1.0	U	U	Yes	
Benzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/kg	1.0	U	U	Yes	
Toluene	5.0	ug/kg	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Hexanone	10	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/kg	1.0	U	U	Yes	
o-Xylene	5.0	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/kg	1.0	U	U	Yes	
Styrene	5.0	ug/kg	1.0	U	U	Yes	
Bromoform	5.0	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	0.87	ug/kg	1.0	J	J	Yes	
1,2,3-Trichlorobenzene	1.8	ug/kg	1.0	J	J	Yes	

Case No: 41647	Contract: EPW11037	SDG No: E5KR4	Lab Code: DATAC
Sample Number: VHBLKS1	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	U	Yes	
Chloromethane	5.0	ug/kg	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/kg	1.0	U	U	Yes	
Bromomethane	5.0	ug/kg	1.0	U	U	Yes	
Chloroethane	5.0	ug/kg	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/kg	1.0	U	U	Yes	
Acetone	10	ug/kg	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/kg	1.0	U	U	Yes	
Methyl acetate	5.0	ug/kg	1.0	U	U	Yes	
Methylene chloride	5.0	ug/kg	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/kg	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Butanone	10	ug/kg	1.0	U	U	Yes	
Bromochloromet hane	5.0	ug/kg	1.0	U	U	Yes	
Chloroform	5.0	ug/kg	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Cyclohexane	5.0	ug/kg	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/kg	1.0	U	U	Yes	
Benzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	
Trichloroethene	5.0	ug/kg	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/kg	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/kg	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/kg	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
4-Methyl-2-Pentanone	10	ug/kg	1.0	U	U	Yes	
Toluene	5.0	ug/kg	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/kg	1.0	U	U	Yes	
2-Hexanone	10	ug/kg	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/kg	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/kg	1.0	U	U	Yes	
o-Xylene	5.0	ug/kg	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/kg	1.0	U	U	Yes	
Styrene	5.0	ug/kg	1.0	U	U	Yes	
Bromoform	5.0	ug/kg	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/kg	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/kg	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/kg	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	

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3:45 Fri, Sep 2, 2011

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA Low Med Sample=E5KR4 Location=SO-1 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown Fluorocarbon	5.5657	8.950614257548	ug/kg	J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E5KR4RE Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown Fluorocarbon	5.5472	6.693970960211	ug/kg	J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E5KR6 Location=SO-3 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
320-60-5(01)	Benzene, 2,4-dichloro-1-(trifluoromethyl)-	15.6694	13.68603895606	ug/kg	JN

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E5KS0 Location=SO-7 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	61.97667351971	ug/kg	J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E5KS0RE Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	11.23007872316	ug/kg	J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E5KS1 Location=SO-8 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA Low Med Sample=E5KS2 Location=SO-9 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	55.17395131724	ug/kg	J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E5KS3 Location=SO-10 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	13.05863451753	ug/kg	J
	Unknown Fluorocarbon	5.542	6.228612969252		J
108-67-8(02)	Benzene, 1,3,5-trimethyl-	14.9894	15.57569422821		JN
526-73-8(03)	Benzene, 1,2,3-trimethyl-	15.5504	26.31292936441		JN
496-11-7(04)	Indane	16.4951	16.76064336978		JN
	Unknown C4 Unsaturated Sub Benzene + Column Bleed	17.37	8.423493476226		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E5KS3RE Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown Benzene, propyl-	14.7784	7.305122980704	ug/kg	J
95-63-6(02)	Benzene, 1,2,4-trimethyl-	15.0343	12.02195862506		JN
611-14-3(03)	Benzene, 1-ethyl-2-methyl-	15.3394	7.651240465768		JN
526-73-8(04)	Benzene, 1,2,3-trimethyl-	15.5952	20.33768528205		JN
496-11-7(05)	Indane	16.5301	20.86993655156		JN
	Unknown C4 Unsaturated Sub Benzene + Column Bleed	17.406	8.565465667161		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E5KS4 Location=SO-11 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=E5KS5RE Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown Fluorocarbon	5.5574	7.155826082347	ug/kg	J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

VOA_Low_Med Sample=VHBLKS1 Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown Deuterated Trichloroethene	9.0167	5.1784	ug/kg	J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR4 Location=SO-1 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	11180.79460341	ug/kg	J
107997-59-1	1-(3-Methylbutyl)-2,3,4-trimethylbenzene	8.2336	143.5010971299		JN
	Unknown Cycloundecanol, 1-methyl-	11.4334	132.4685477683		J
	Unknown Naphthalene, 1,2-dihydro-4-phenyl-	13.1744	125.2855117607		J
	Unknown Phthalic acid, nonyl pentadecyl ester	17.0742	129.3094967903		J
	Unknown 1,2-Benzenedicarboxylic acid, dinonyl ester	17.2506	100.8112190484		J
	Unknown 1,2-Benzenedicarboxylic acid, ditridecyl ester	17.3271	109.2563905819		J
	Unknown 2-Cyano-3-phenylquinoxaline	19.1564	96.32692576824		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR5 Location=SO-2 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	4684.221400155	ug/kg	J
	Unknown Hexadecanoic acid, 2,3-bis(acetyloxy)propyl este	14.3449	91.57608143606		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR6 Location=SO-3 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	1102.283948407	ug/kg	J
	Unknown 1,3-Cyclooctadiene, (Z,Z)-	11.4628	86.02326584839		J
57-10-3	n-Hexadecanoic acid	12.351	160.0955397175		JN
	Unknown 3,4-Pentadien-1-ol, 2,2-dimethyl-	14.992	95.10908957573		J
62951-96-6	1,5,9-Undecatriene, 2,6,10-trimethyl-, (Z)-	17.0507	112.9311182854		JN
	Unknown 4-[N-Methylpiperazin-1-yl]-5-amino veratrole	18.3682	94.90017105737		J
58-95-7	2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetram	20.2152	210.9181670427		JN
	Unknown .beta.-Sitosterol	22.5327	459.8936135741		J
	Unknown 1R,4S,7S,11R-2,2,4,8-Tetramethyltricyclo[5.3.1.0	23.0326	99.84599720646		J
	Unknown Quinoline, 2-[2-(3-pyridyl)ethenyl]-	23.1914	212.9220793617		J
300574-36-1	5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan	23.4267	1113.271357015		JN
58801-23-3	Hop-22(29)-en-3.beta.-ol	24.1149	433.4760801087		JN
	Unknown 2-n-Propylthiane, S,S-dioxide	24.3855	131.5120754904		J
	Unknown 3,7,11-Trimethyl-dodeca-2,4,6,10-tetraenal	24.6031	1162.947064311		J
	Unknown Tricyclo[6.3.0.0(2,4)]undec-8-ene, 3,3,7,11-tetr	25.009	195.0915233656		J
	Unknown Diepicedrene-1-oxide	25.2501	209.6561286461		J

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Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR7 Location=SO-4 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	6411.190703429	ug/kg	J
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	4.7691	304.6821342854		JN
934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	4.9985	270.9392462832		JN
2870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	5.1631	183.6680239035		JN
	Unknown Benzene, 1-ethyl-2,3-dimethyl-	5.5631	359.6607907351		J
	Unknown Undecanoic acid	9.0158	280.02284242		J
	Unknown 9H-Fluoren-9-ol	9.9452	191.9730260857		J
70-55-3	Benzenesulfonamide, 4-methyl-	10.1158	198.633057707		JN
	Unknown Tetradecanoic acid	10.7451	238.974911138		J
486-25-9	9H-Fluoren-9-one	10.8628	367.1795656887		JN
234-41-3	Naphtho[1,2-b]thiophene	11.0157	250.9744179674		JN
	Unknown Phenanthridine	11.4392	174.1722309672		J
949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	12.1568	494.8155413216		JN
2531-84-2	Phenanthrene, 2-methyl-	12.2098	493.1591208496		JN
832-69-9	Phenanthrene, 1-methyl-	12.2862	227.9944463962		JN
132545-36-9	1-Methyl-4-ethyl 2-phenylsuccinate	12.7215	391.9762564873		JN
84-65-1	9,10-Anthracenedione	12.7685	533.4093749918		JN
	Unknown Hexadecanoic acid, 2-hydroxy-, methyl ester	12.9509	177.8247526071		J
	Unknown 1-Phenanthrenecarboxaldehyde, 1,2,3,4,4a,9,10,10	13.0097	839.847162312		J
781-43-1	9,10-Dimethylanthracene	13.1803	641.2255545161		JN
	Unknown Cyclopenta(def)phenanthrenone	13.3156	485.4914970518		J
6566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	13.5508	462.7519736135		JN
2381-21-7	Pyrene, 1-methyl-	14.1685	170.237278187		JN
1705-85-7	Chrysene, 6-methyl-	16.1565	210.9760618693		JN
	Unknown Squalene	17.08	217.4185451798		J
192-97-2	Benzo[e]pyrene	17.8682	730.760042656		JN
	Unknown Ambreinolide	19.474	714.9057324239		J
	Unknown 1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyclohexen-	20.368	586.0751494		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR7 Location=SO-4 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
191-26-4	Dibenzo[def,mno]chrysene	21.868	429.6998969142		JN
	Unknown [2.2]Paracyclophane	23.7384	213.4301594811		J

National Functional Guidelines Report # 9

3:45 Fri, Sep 2, 2011

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR7DL Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	780.6549385787	ug/kg	JD
	Unknown 1H-Indene, 2-decyloctahydro-	19.421	880.307331491		JD

National Functional Guidelines Report # 9

3:45 Fri, Sep 2, 2011

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR8 Location=SO-5 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	1297.192446865	ug/kg	J
35693-99-3	1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	12.4098	122.2261742371		JN
60145-20-2	1,1'-Biphenyl, 2,2',3,3',5-pentachloro-	13.3273	227.5538128486		JN
38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	13.6391	249.5707952538		JN
73575-57-2	2,2',3,4,6'-Pentachloro-1,1'-biphenyl	13.8979	77.23272866907		JN
52663-60-2	1,1'-Biphenyl, 2,2',3,3',6-pentachloro-	13.9744	154.2757501161		JN
31508-00-6	1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	14.0861	241.0084327509		JN
52712-04-6	1,1'-Biphenyl, 2,2',3,4,5,5'-hexachloro-	14.3508	122.4815493437		JN
31508-00-6(01)	1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	14.4096	184.6179609966		JN
69782-90-7	1,1'-Biphenyl, 2,3,3',4,4',5'-hexachloro-	14.639	129.8947238669		JN
59291-65-5	2,3',4,4',5',6-Hexachloro-1,1'-biphenyl	14.939	217.5577015329		JN
61798-70-7	1,1'-Biphenyl, 2,2',3,3',4,6-Hexachloro-	15.2272	76.36810152242		JN
	Unknown 3-Hydroxypregn-5-en-20-one hydrazone	18.3564	83.44199197539		J
41083-77-6	Cholestane-3,6-diol, (3.beta.,5.alpha.,6.alpha.,	21.1798	321.7580414595		JN

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KR9 Location=SO-6 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	366.6867417561	ug/kg	J
143-07-7	Dodecanoic acid	8.9983	81.36684277608		JN
301-02-0	9-Octadecenamide, (Z)-	14.845	214.5421143856		JN
	Unknown Sulfurous acid, 2-propyl tridecyl ester	18.3507	82.7635590393		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS0 Location=SO-7 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	1817.377747256	ug/kg	J
	Unknown 2H-Pyrrol-2-one, 1,5-dihydro-4-methoxy-	4.8809	173.9507999796		J
	Unknown Benzene, 2,4-diisocyanato-1-methyl-	7.2749	80.14920102137		J
112-04-9	Silane, trichlorooctadecyl-	11.8981	138.4872282453		JN
949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	12.204	104.0243922213		JN
203-64-5	4H-Cyclopenta[def]phenanthrene	12.351	252.4286333737		JN
	Unknown 9H-Cyclopenta[a]pyrene	16.3743	109.9384622871		J
192-97-2	Benzo[e]pyrene	17.833	93.38810052242		JN
	Unknown 1,4-Di(triethylsilyl)butadiyne	21.1799	354.5696965846		J
	Unknown Acetamide, N-[5-bromo-(1,1'-biphenyl)-2-yl]-	24.262	80.33683896705		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS1 Location=SO-8 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	1290.569590205	ug/kg	J
	Unknown Formic acid hydrazide	4.0808	89.69987130474		J
526-73-8	Benzene, 1,2,3-trimethyl-	4.1162	304.1081970134		JN
526-73-8(02)	Benzene, 1,2,3-trimethyl-	4.3102	394.0119694916		JN
526-73-8(03)	Benzene, 1,2,3-trimethyl-	4.5279	471.3196429514		JN
	Unknown Benzene, 2-propenyl-	4.6514	88.89675035642		J
1074-43-7	Benzene, 1-methyl-3-propyl-	4.7279	400.8988356546		JN
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	4.7691	614.3750417134		JN
933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	4.922	94.97633432266		JN
934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	4.9984	347.2520208067		JN
	Unknown Benzene, (1-ethylpropyl)-	5.1161	155.0356330117		J
2870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	5.1631	173.1120962214		JN
1758-88-9(06)	Benzene, 2-ethyl-1,4-dimethyl-	5.2573	95.44239414759		JN
934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	5.2925	144.4868682243		JN
	Unknown Benzene, 1-ethyl-2,3-dimethyl-	5.5631	332.0759477575		J
581-42-0	Naphthalene, 2,6-dimethyl-	7.8747	124.8749043414		JN
581-42-0(08)	Naphthalene, 2,6-dimethyl-	7.9806	125.2619004461		JN
85-41-6	Phthalimide	8.3512	115.1667117383		JN
544-63-8	Tetradecanoic acid	10.7451	350.3271834015		JN
	Unknown Isophthalic acid, phenyl undecyl ester	13.1803	96.7531874052		J
1000333-19-5	cis-9-Hexadecenoic acid	13.6449	1137.918352547		JN
	Unknown Benzene, 1,1'-(diazomethylene)bis-	14.2743	447.3633357004		J
	Unknown Phthalic acid, 4-methoxyphenyl 3-methylphenyl es	14.839	225.5854390101		J
103-23-1	Hexanedioic acid, bis(2-ethylhexyl) ester	14.939	255.8044251585		JN
	Unknown Spiro[isobenzofuran-1(3H)-one-3,2'-tetrahydrofur	17.3565	338.9212014361		J
	Unknown Tricyclo[7.3.0.0(3,8)]dodec-1(9)-en-12-one, 2,2-	19.0975	84.19037837435		J
	Unknown Atropine	24.5913	136.1602101022		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS2 Location=SO-9 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	6726.220398253	ug/kg	J
	Unknown 2-Acetyl-5-norbornene	5.7867	115.0968206255		J
	Unknown Nonane, 2,8-dimethyl-4-methylene-	6.2749	155.8278654421		J
	Unknown 1-(3-Methylbutyl)-2,3,6-trimethylbenzene	8.2395	97.4943692708		J
	Unknown Octadecane, 1-(ethenyloxy)-	9.063	113.3901122373		J
	Unknown 1,1'-Biphenyl, 3,4-diethyl-	11.4393	108.6724109455		J
2531-84-2	Phenanthrene, 2-methyl-	12.1569	86.69719304692		JN
832-69-9	Phenanthrene, 1-methyl-	12.2098	141.3082683969		JN
203-64-5	4H-Cyclopenta[def]phenanthrene	12.351	159.410156522		JN
84-65-1	9,10-Anthracenedione	12.7627	133.1376265556		JN
3674-66-6	Phenanthrene, 2,5-dimethyl-	13.1803	107.1022392284		JN
33543-31-6	Fluoranthene, 2-methyl-	14.3214	170.6564665322		JN
2381-21-7	Pyrene, 1-methyl-	14.4214	92.60420060501		JN
	Unknown Benzo[c]phenanthrene	15.6978	88.98957189246		J
192-97-2	Benzo[e]pyrene	17.4742	100.1209036534		JN
192-97-2(07)	Benzo[e]pyrene	17.833	446.3814945083		JN
	Unknown 1,9,12-Octadecatriene, 1-methoxy-	18.3682	136.2420392869		J
	Unknown Sulfurous acid, butyl dodecyl ester	19.2976	198.4812028643		J
	Unknown Dibenzo[def,mno]chrysene	20.6093	130.3961139237		J

National Functional Guidelines Report # 9

3:45 Fri, Sep 2, 2011

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS3 Location=SO-10 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	681.5792648268	ug/kg	J
143-07-7	Dodecanoic acid	9.0217	287.5585046589		JN
544-63-8	Tetradecanoic acid	10.7451	99.30929771358		JN
	Unknown Benzofuran-2-one, 3-methyl-3-aza-2,3-dihydro-	16.5389	157.2850607842		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS4 Location=SO-11 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	8733.207366505	ug/kg	J
	Unknown 8-Oxabicyclo[5.1.0]octane	6.2691	156.2156076493		J
	Unknown 1-(3-Methylbutyl)-2,3,6-trimethylbenzene	8.2337	95.22153830625		J
	Unknown Oxalic acid, allyl octadecyl ester	9.0631	116.4842794311		J
	Unknown 2-Butanone, 4-(2,3-epoxy-2,6,6-trimethylcyclohex	11.4335	88.51703730574		J
	Unknown 9,10-Dimethylanthracene	13.1804	84.62872046043		J
1000309-17-9	Sulfurous acid, butyl dodecyl ester	16.9331	134.9491948372		JN
	Unknown 3,5-Hexadien-2-one, 5-methyl-6-(4-nitrophenyl)-	19.1624	75.17412567603		J
	Unknown Fumaric acid, 2-methylpentyl tetradecyl ester	23.4445	80.94968979093		J
	Unknown Tropine, 2,6-dichlorophenylacetate	24.5915	97.52368624016		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS5 Location=SO-12 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	2184.800197616	ug/kg	J
35693-99-3	1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	12.4099	131.5762802009		JN
60145-20-2	1,1'-Biphenyl, 2,2',3,3',5-pentachloro-	13.3275	281.7575056014		JN
38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	13.6392	290.3587460619		JN
38380-03-9(01)	1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	13.7039	82.09280068111		JN
37680-73-2	1,1'-Biphenyl, 2,2',4,5,5'-pentachloro-	13.898	114.2440916011		JN
68194-07-0	2,2',3,4',5-Pentachloro-1,1'-biphenyl	13.9745	172.4868928151		JN
52663-61-3	1,1'-Biphenyl, 2,2',3,5,5'-pentachloro-	14.0862	285.2352927433		JN
61798-70-7	1,1'-Biphenyl, 2,2',3,3',4,6-Hexachloro-	14.3509	144.7821432641		JN
31508-00-6	1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	14.4097	217.8197266085		JN
74472-45-0	2,3,3',4',5',6-Hexachloro-1,1'-biphenyl	14.6391	164.5422974793		JN
301-02-0	9-Octadecenamide, (Z)-	14.8509	147.7492064201		JN
74472-46-1	2,3,3',5,5',6-Hexachloro-1,1'-biphenyl	14.9391	272.4834065564		JN
38380-08-4	1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-	15.2273	124.515318428		JN
	Unknown Phosphine, methyl-(2,4,6-triisopropylphenyl)-	21.1858	293.3906630573		J
	Unknown Testosterone	24.6326	150.363626824		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS5DL Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E5KS6 Location=SO-13 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	.	1361.70383412	ug/kg	J
57-10-3	n-Hexadecanoic acid	12.3451	82.82569817668		JN
	Unknown 1-Formyl-2,2-dimethyl-3-trans-(3-methyl-but-2-en	15.092	98.00655356409		J
	Unknown 2-Isopropenyl-4a,8-dimethyl-1,2,3,4,4a,5,6,7-oct	16.0507	195.7277671996		J
	Unknown 3,7,11-Tridecatrienenitrile, 4,8,12-trimethyl-	17.0507	78.76538811243		J
23192-42-9	7-Hexadecen-1-ol, acetate, (Z)-	17.1977	122.4223971793		JN
	Unknown 1-Octacosanol	17.7095	137.6456679615		J
	Unknown 3-Cyclohexene-1-carboxaldehyde, 2,4,6-trimethyl-	22.5268	93.10950343912		J
	Unknown 7,9-Dimethyl-1,4-dioxa-7,9-diazacycloundecane-8-	23.4209	79.3592036394		J
	Unknown 4,6-Dimethyl-2-pyrimidone	24.5796	89.40394031306		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=SBLK03 Location=No_TR_data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown Acetic acid, 1-methylethyl ester	4.3752	153.4366666667	ug/kg	J
	Unknown 6-Isopropylquinoline	6.7868	72.04666666667		J
301-02-0(03)	9-Octadecenamide, (Z)-	14.8392	82.33333333333		JN
	Unknown Phthalic acid, monoethyl ester	18.6154	725.5333333333		J
	Unknown [2.2]Paracyclophane	23.6681	898.4		J

National Functional Guidelines Report # 9

Lab DATAC (ALS Laboratory Group) **SDG** E5KR4 **Case** 41647 **Contract** EPW11037 **Region** 5 **DDTID** 130720 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=SBLK32 Location=No TR data Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown Acetic acid, 1-methylethyl ester	4.3808	86.56666666667	ug/kg	J
	Unknown Phthalic acid, 2,7-dimethyloct-7-en-5-yn-4-yl he	16.5388	92.64333333333		J
	Unknown 1,2-Benzenedicarboxylic acid	18.6152	394.86		J
	Unknown Phthalic acid, monoethyl ester	23.6501	391.32		J

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 2 Sept 2011

FROM: Timothy Prendiville, Supervisor (**SR-6J**)
Superfund Contract Management Section

TO: Data User: OEPA

We have reviewed the data for the following case:

SITE NAME: Clyde Dump (OH)

CASE NUMBER: 41647 SDG NUMBER: E5KR4

Number and Type of Samples: 13 Soil samples

Sample Numbers: E5KR4-R9; E5KS0-S4

Laboratory: ALS Group Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SA-5J**

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: E5KR4

☒ ARO ☒ PEST ☒ BNA ☐ BNASIM ☐ VT ☐ VOASIM ☒ VLM

Laboratory Name: ALS Laboratory Group (SLC) Laboratory Code: DATAC

Contract No.: EPW11037 Case No.: 41647

Analysis Price: N/A SDG Turnaround: 21

Modified Analysis Requested: NO

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E5KR4	7) E5KS0	13) E5KS6	19)
2) E5KR5	8) E5KS1	14)	20)
3) E5KR6	9) E5KS2	15)	21)
4) E5KR7	10) E5KS3	16)	22)
5) E5KR8	11) E5KS4	17)	23)
6) E5KR9	12) E5KS5	18)	24)

E5KR4	E5KS6
First Sample in SDG	Last Sample in SDG
08/10/11	08/11/11
First Sample Receipt Date	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: Date: 8/17/2011

W 1122263

:t Laboratory Program
: Report & Chain of Custody Record

Case No: 41647
DAS No:
SDG No: E5KR4

L

Date Shipped:	8/9/2011
Carrier Name:	FedEx
Airbill:	866389086644
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)
Sampler Signature:		8/9/11 1745	
1	8/9/11 1745		08-10-11
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW11037
Unit Price: NW
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
E5KR4	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), PER_SO (21), VOA Encore (21)	5C-001087 (Ice Only), 5C-001088 (Ice Only), 5C-001089 (Ice Only), 5C-001090 (Ice Only), 5C-001091 (Ice Only), 5C-001092 (Ice Only) (6)	SO-1	S: 8/9/2011	12:35	ME5KR4	
E5KR5	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), PER_SO (21), VOA Encore (21)	5C-001094 (Ice Only), 5C-001095 (Ice Only), 5C-001096 (Ice Only), 5C-001097 (Ice Only), 5C-001098, 5C-001099 (Ice Only) (6)	SO-2	S: 8/9/2011	15:00	ME5KR5	
E5KR6	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), PER_SO (21), VOA Encore (21)	5C-001302 (Ice Only), 5C-001303 (Ice Only), 5C-001304 (Ice Only), 5C-001305 (Ice Only), 5C-001306 (Ice Only), 5C-001307 (Ice Only) (6)	SO-3	S: 8/9/2011	16:40	ME5KR6	

Shipment for Case Complete ?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E5KS6		6	

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? ✗ Shipment Iced? ✗

BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PER_SO = Percent Soilds, VOA Encore = CLP VOA Encore

TR Number: 5-131260284-080911-0009

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W 1122354

ct Laboratory Program
c Report & Chain of Custody Record

Case No: 41647
DAS No:
SDG No: F5 KR4

L

Date Shipped:	8/10/2011
Carrier Name:	FedEx
Airbill:	866389086655
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	8/10/11 1500		8/11/11 833
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW11037
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
E5KR7	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), VOA Encore (21)	5C-001309 (Ice Only), 5C-001310 (Ice Only), 5C-001311 (Ice Only), 5C-001312 (Ice Only), 5C-001314 (Ice Only) (5)	SO-4	S: 8/10/2011 9:45	ME5KR7	
E5KR8	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), VOA Encore (21)	5C-001316 (Ice Only), 5C-001317 (Ice Only), 5C-001318 (Ice Only), 5C-001319 (Ice Only), 5C-001321 (Ice Only) (5)	SO-5	S: 8/10/2011 10:00	ME5KR8	
E5KR9	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), VOA Encore (21)	5C-001323 (Ice Only), 5C-001324 (Ice Only), 5C-001325 (Ice Only), 5C-001326 (Ice Only), 5C-001328 (Ice Only) (5)	SO-6	S: 8/10/2011 10:50	ME5KR9	
E5KS0	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), VOA Encore (21)	5C-001330 (Ice Only), 5C-001331 (Ice Only), 5C-001332 (Ice Only), 5C-001333 (Ice Only), 5C-001335 (Ice Only) (5)	SO-7	S: 8/10/2011 11:10	ME5KS0	
E5KS1	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), VOA Encore (21)	5C-001337 (Ice Only), 5C-001338 (Ice Only), 5C-001339 (Ice Only), 5C-001340 (Ice Only), 5C-001342 (Ice Only) (5)	SO-8	S: 8/10/2011 13:10	ME5KS1	
E5KS2	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), VOA Encore (21)	5C-001344 (Ice Only), 5C-001345 (Ice Only), 5C-001346 (Ice Only), 5C-001347 (Ice Only), 5C-001349 (Ice Only) (5)	SO-9	S: 8/10/2011 13:20	ME5KS2	

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: 29025, 26
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, VOA Encore = CLP VOA Encore

TR Number: 5-131260284-081011-0005

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No:
SDG No: E5KR4

L

Date Shipped:	8/10/2011
Carrier Name:	FedEx
Airbill:	866389086655
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	8/10/11 1500		8/11/11 1833
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW11037
Unit Price: Non
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
E5KS3	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), VOA Encore (21)	5C-001351 (Ice Only), 5C-001352 (Ice Only), 5C-001353 (Ice Only), 5C-001354 (Ice Only), 5C-001356 (Ice Only) (5)	SO-10	S: 8/10/2011	14:20	ME5KS3	
E5KS4	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), VOA Encore (21)	5C-001358 (Ice Only), 5C-001359 (Ice Only), 5C-001360 (Ice Only), 5C-001361 (Ice Only), 5C-001363 (Ice Only) (5)	SO-11	S: 8/10/2011	14:40	ME5KS4	
E5KS5	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), VOA Encore (21)	5C-001365 (Ice Only), 5C-001366 (Ice Only), 5C-001367 (Ice Only), 5C-001368 (Ice Only), 5C-001370 (Ice Only) (5)	SO-12	S: 8/10/2011	10:15	ME5KS5	

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: 29025-26
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, VOA Encore = CLP VOA Encore

TR Number: 5-131260284-081011-0005

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 41647
DAS No:
SDG No: E5KR4

L

Date Shipped:	8/9/2011
Carrier Name:	FedEx
Airbill:	866389086644
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	8/9/11 1745	Jennifer Russell	08-10-11
2			
3			
4			

Sampler Signature: 1745

For Lab Use Only

Lab Contract No: EPW11037
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
E5KS6	Subsurface Soil (>12")/ Victoria Sigler	L/G	BNA/PEST (21), PER_SO (21), VOA Encore (21)	5C-001372 (Ice Only), 5C-001373 (Ice Only), 5C-001374 (Ice Only), 5C-001375 (Ice Only), 5C-001376 (Ice Only), 5C-001377 (Ice Only), 5C-001378 (Ice Only), 5C-001379 (Ice Only), 5C-001380 (Ice Only), 5C-001381 (Ice Only), 5C-001382 (Ice Only), 5C-001383 (Ice Only), 5C-001384 (Ice Only), 5C-001385 (Ice Only), 5C-001386 (Ice Only) (15)	SO-13	S: 8/9/2011 16:00	ME5KS6	Storage Sample

Shipment for Case Complete ?N	Sample(s) to be used for laboratory QC: E5KS6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 6	Chain of Custody Seal Number: 29021-29022
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? X Shipment Iced? X

BNA/PEST = CLP TCL Semivolatiles/Pesticides/PCBs, PER_SO = Percent Solids, VOA Encore = CLP VOA Encore

TR Number: 5-131260284-080911-0009

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SDG Narrative
Low/Medium Volatiles

Contract: EPW11037 **Case:** 41647
Laboratory: ALS Environmental **SDG:** E5KR4

EPA No.	ALS Sample	pH	Dilution	EPA No.	ALS Sample	pH	Dilution
E5KR4	1122263001	NA	None	E5KS1RE	1122354005RE	NA	None
E5KR4RE	1122263001RE	NA	None	E5KS2	1122354006	NA	None
E5KR5	1122263002	NA	None	E5KS2RE	1122354006RE	NA	None
E5KR5RE	1122263002RE	NA	None	E5KS3	1122354007	NA	None
E5KR6	1122263003	NA	None	E5KS3RE	1122354007RE	NA	None
E5KR7	1122354001	NA	None	E5KS4	1122354008	NA	None
E5KR8	1122354002	NA	None	E5KS5	1122354009	NA	None
E5KR8RE	1122354002RE	NA	None	E5KS5RE	1122354009RE	NA	None
E5KR9	1122354003	NA	None	E5KS6	1122263004	NA	None
E5KS0	1122354004	NA	None	E5KS6MS	1122263005	NA	None
E5KS0RE	1122354004RE	NA	None	E5KS6MSD	1122263006	NA	None
E5KS1	1122354005	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: OI Analytical Eclipse 4660 Concentrator (#10 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, 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 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 1122263004 (E5KS6).

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.

Multiple samples contain a peak which has been tentatively identified as deuterated trichloroethene. It is believed that an unknown compound or solvent present in the sample vials is causing 1,1,2,2-tetrachloroethane-d2 to break down and form trichloroethene-d either by acting as a catalyst or through chemical reaction.

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.

8.25.11

Christopher Q. Coleman
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract: EP-W-11-037
Case: 41647
SDG: E5KR4
Laboratory Name: DataChem Laboratories
DCL Set ID.: 1122263, 1122354.
Sample No.: E5KR4, E5KR5, E5KR6, E5KR7, E5KR7DL, E5KR8, E5KR9, E5KS0, E5KS1, E5KS2, E5KS3, E5KS4, E5KS5, E5KS5DL, E5KS6, E5KS6MS, E5KS6MSD.
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 5975-H)
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 E5KS6.

Dilutions: Sample E5KR7 required a 1:10 dilution, while a 1:5 dilution was required on sample E5KS5.

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	
E5KR4	Benzo(a)anthracene	15.56	1975	1987
E5KR4	Chrysene	15.58	1987	1993
E5KR5	Benzo(a)anthracene	15.56	1977	1987
E5KS6	Benzo(k)fluoranthene	17.30	2279	2291
E5KS6	Benzo(g,h,i)perylene	21.75	3027	3061
E5KS6MS	Benzo(k)fluoranthene	17.31	2280	2293
E5KS6MS	Benzo(a)pyrene	17.92	2375	2394
E5KR9	Benzo(k)fluoranthene	17.31	2280	2297
E5KR9	Benzo(a)pyrene	17.92	2378	2399
E5KR9	Dibenzo(a,h)anthracene	20.96	2884	2916
E5KS1	Benzo(b)fluoranthene	17.27	2268	2280
E5KS1	Benzo(k)fluoranthene	17.32	2280	2297
E5KS1	Benzo(a)pyrene	17.93	2377	2397
E5KS1	Dibenzo(a,h)anthracene	20.98	2892	2916
E5KS3	4-Methylphenol-d8	4.97	166	254
E5KS3	2,4-Dichlorophenol-d3	5.76	308	466
E5KS3	4-Nitrophenol-d4	9.46	883	1042
E5KS3	Benzo(b)fluoranthene	17.27	2264	2280
E5KS3	Benzo(k)fluoranthene	17.32	2280	2298
E5KS3	Benzo(a)pyrene	17.93	2378	2400
E5KS4	4-Nitrophenol-d4	8.93	845	902
E5KS4	Benzo(a)pyrene	17.93	2383	2399
E5KR7DL	4-Nitrophenol-d4	9.02	860	898
E5KR7DL	Benzo(k)fluoranthene	17.32	2281	2294
E5KR7DL	Benzo(a)pyrene	17.93	2378	2401
E5KS5DL	4-Nitrophenol-d4	9.13	864	922
E5KS5DL	Benzo(b)fluoranthene	17.27	2267	2280
E5KS5DL	Benzo(k)fluoranthene	17.30	2280	2290

E5KS5DL	Benzo(a)pyrene	17.92	2378	2399
E5KS5DL	Benzo(g,h,i)perylene	21.77	3029	3058
E5KR7	4-Nitrophenol-d4	8.95	848	918
E5KR7	Benzo(k)fluoranthene	17.36	2288	2302
E5KR8	4-Nitrophenol-d4	9.03	856	956
E5KR8	Benzo(k)fluoranthene	17.32	2282	2294
E5KR8	Benzo(a)pyrene	17.94	2380	2400
E5KR8	Dibenzo(a,h)anthracene	21.00	2892	2922
E5KS0	4-Nitrophenol-d4	9.47	881	1062
E5KS0	Benzo(k)fluoranthene	17.32	2283	2296
E5KS0	Benzo(a)pyrene	17.94	2380	2400
E5KS2	4-Nitrophenol-d4	9.47	886	991
E5KS2	Benzo(k)fluoranthene	17.33	2283	2298
E5KS2	Benzo(a)pyrene	17.95	2381	2405
E5KS5	4-Nitrophenol-d4	9.21	870	984
E5KS5	Benzo(k)fluoranthene	17.32	2283	2295
E5KS5	Benzo(a)pyrene	17.94	2382	2403
E5KS6MSD	Benzo(k)fluoranthene	16.98	2291	2306
E5KS6MSD	Benzo(a)pyrene	17.54	2381	2401
E5KS6MSD	Dibenzo(a,h)anthracene	20.34	2853	2879
SSTD020HX	4-Nitroaniline	9.58	962	1013
SSTD020X7	4-Nitrophenol-d4	8.92	844	934
SSTD020X9	4-Chloro-3-methylphenol	6.76	477	545
SSTD020X9	4-Nitrophenol	8.95	850	951
SSTD020X9	4-Nitrophenol-d4	8.94	849	944
SSTD020X9	Pentachlorophenol	11.03	1194	1321
SSTD020X9	Indeno(1,2,3-c,d)pyrene	20.96	2881	2913
SSTD020HZ	Phenol	3.98	12	36
SSTD020HZ	4-Methylphenol-d8	4.67	128	156
SSTD020HZ	4-Nitrophenol	8.61	798	827
SSTD020HZ	Pentachlorophenol	10.62	1140	1226
SSTD020Z7	Phenol	3.99	80	105
SSTD080HK	Caprolactam	6.57	446	480
SSTD010HK	Indeno(1,2,3-c,d)pyrene	21.03	2897	2923
SSTD005HK	Indeno(1,2,3-c,d)pyrene	21.02	2899	2923

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. This was the case for the following TICs: retention time 17.87 minutes in sample E5KR7, 17.83 in sample E5KS0 and 17.47 in sample E5KS2. 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.

08·22·11

Seaman W. Barker August 22, 2011

SDG Narrative
Pesticides

Laboratory Name: DataChem Laboratories
Case: 41647
SDG: E5KR4
EPA Sample Numbers: E5KR4, E5KR5, E5KR6, E5KR7, E5KR7DL, E5KR8, E5KR8DL, E5KR9, E5KS0, E5KS1, E5KS2, E5KS3, E5KS4, E5KS5, E5KS5DL, E5KS6, E5KS6MS, and E5KS6MSD.
Contract Number: EP-W-11-037

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: Samples E5KR7, E5KR8, and E5KS5 required dilutions.

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: Samples E5KR7DL, E5KR8DL, and E5KS5DL required manual integrations for 4,4'-DDT due to unresolved peaks.

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):

$$\text{Result ug/kg} = \frac{\text{(Area response of analyte)(Extract FV uL after GPC)(Dilution Factor)(GPC factor)}}{\text{(Ave CF)(uL injected)(grams of Sample)((100-\%moisture)/100))}}$$

$$3.79 \text{ ug/kg} = \frac{(15106)(5000 \text{ uL})(1)(10000/5000)}{(734000)(2 \text{ uL})(30 \text{ g})(1)}$$

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.

08/28/11

Steven J. Sagers — Date
Pesticide Chemist

SDG Narrative
Aroclors

Laboratory Name: ALS/DataChem
Case: 41647
SDG: E5KR4
EPA Sample Numbers: E5KR4, E5KR5, E5KR6, E5KR7, E5KR7DL, E5KR8, E5KR8DL, E5KR9, E5KS0, E5KS1, E5KS1DL, E5KS2, E5KS3, E5KS4, E5KS5, E5KS5DL, E5KS6, E5KS6MS, and E5KS6MSD.
Contract Number: EP-W-11-037

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 SOW specified hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: CCV passed continuing calibration criteria.

Sample Analysis: All samples were analyzed within SOW specified hold times from date of extraction.

Dilutions: None.

Blank Analysis: No analytes were detected in the method blank above the CRQL.

LCS Analysis: LCS passed established criteria.

MS/MSD Analysis: MS/MSD recoveries within established limits.

Surrogates: All samples passed surrogate criteria.

Miscellaneous Comments: None.

This chart summarizes the amount (ng) of each compound in each type of standard:

	AR12213##	AR12323##	AR12423##	AR12483##	AR12623##	AR12683##	AIBLK##
AR1221	0.8						
AR1232		0.8					
AR1242			0.8				
AR1248				0.8			
AR1254							
AR1262					0.8		
AR1268						0.8	
AR1016							
AR1260							
Tetrachloro-m-xylene	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Decachlorobiphenyl	0.08	0.08	0.08	0.08	0.08	0.08	0.08

	AR16601##	AR16602##	AR16603##	AR16604##	AR16605##	AR12541##	AR12542##	AR12543##	AR12544##	AR12545##
AR1221										
AR1232										
AR1242										
AR1248										
AR1254						0.2	0.4	0.8	1.6	3.2
AR1262										
AR1268										
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	0.01	0.02	0.04	0.08	0.16	0.01	0.02	0.04	0.08	0.16
Decachlorobiphenyl	0.02	0.04	0.08	0.16	0.32	0.02	0.04	0.08	0.16	0.32

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:

$$\frac{\text{µL most concentrated extract used to make dilution + µL clean solvent}}{\text{µL most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

Equation for Aroclors in water samples (EQ. 7):

EQ. 7 Concentration Calculation for Water Samples

$$\text{Concentration µg/L} = \frac{(A_x)\ (V_t)\ (DF)\ (GPC)}{(\overline{CF})\ (V_o)\ (V_i)}$$

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.

8/30/11

Christopher R. Winter — Date
Analyst

Meredith D. Edwards

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Thursday, August 11, 2011 12:24 PM
To: Meredith D. Edwards; Roxanne Olson
Cc: JAWORSKI, MARK; Carlene Thomas; Howard Pham; roberman.alida@epa.gov; Prendiville.Timothy@epamail.epa.gov; Warren Layne
Subject: Region 05 | Case 41647 | Lab DATAC | Issue Discrepancies with tags, jars, and/or TR/COC | FINAL
Attachments: Case 41647.pdf

Roxy,

Summary Start
Issue: Sample tag numbers were not listed on the TR/COC for the percent moisture containers. The lab received sample tags for the containers as follows:
E5KR7 Tag 5C001313
E5KR8 Tag 5C001320
E5KR9 Tag 5C001327
E5KS0 Tag 5C001334
E5KS1 Tag 5C001341
E5KS2 Tag 5C001348
E5KS3 Tag 5C001355
E5KS4 Tag 5C001362
E5KS5 Tag 5C001369
Resolution: 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 sample. The Resolution will be applied to all samples received for this Case.
Summary End

Please let me know if you have any additional questions.
Thanks,

Please note: To waive any defect(s) associated with this issue, please contact your PO.

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: Roxanne Olson [mailto:Roxanne.Olson@ALSGlobal.com]
Sent: Thursday, August 11, 2011 1:58 PM

To: Mroz, Ryan
Subject: FW: Organic case 41647

Ryan:

See Mere's comments concerning extra tags.

Roxy

From: Meredith D. Edwards
Sent: Thursday, August 11, 2011 11:51 AM
To: Roxanne Olson
Subject: Organic case 41647

Please advise Region 5, I received one extra tag per sample that is not listed on the TR. All the extra tags are for the Percent Moisture container. They are as follows
E5KR7 Tag 5C001313
E5KR8 Tag 5C001320
E5KR9 Tag 5C001327
E5KS0 Tag 5C001334
E5KS1 Tag 5C001341
E5KS2 Tag 5C001348
E5KS3 Tag 5C001355
E5KS4 Tag 5C001362
E5KS5 Tag 5C001369
I have attached copies of all the tags.
Mere

****
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2C - FORM II VOA-3

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	E5KR4	129 *	139 *	89	167	107	104	141 *
02	E5KR4RE	111	120	82	141	101	98	123 *
03	E5KR5	132 *	130	86	191 *	107	108	131 *
04	E5KR5RE	150 *	148 *	98	191 *	115	100	203 *
05	E5KR6	102	104	78	75	100	98	109
06	E5KR7	104	107	80	136	100	96	112
07	E5KR8	125 *	126	89	119	107	103	158 *
08	E5KR8RE	113	116	84	124	105	98	137 *
09	E5KR9	103	108	81	125	100	95	116
10	E5KS0	131 *	133 *	92	124	110	109	166 *
11	E5KS0RE	136 *	139 *	94	119	112	113	164 *
12	E5KS1	110	117	82	136	103	99	131 *
13	E5KS1RE	104	110	80	129	99	94	123 *
14	E5KS2	159 *	158 *	102	145	118	113	208 *
15	E5KS2RE	119	121	84	142	104	104	120
16	E5KS3	118	128	88	129	107	102	144 *
17	E5KS3RE	111	118	84	127	106	104	134 *
18	E5KS4	113	118	81	132	104	108	111
19	E5KS5	119	126	86	138	107	110	136 *
20	E5KS5RE	139 *	148 *	95	99	113	112	167 *
21	E5KS6	110	111	83	129	102	98	132 *
22	E5KS6MS	112	114	105	86	105	102	134 *
23	E5KS6MSD	128 *	134 *	123	50	115	113	163 *
24	VBLKS1	99	100	77	73	97	91	98
25	VBLKS2	98	99	77	63	96	88	97
26	VHBLKS1	96	99	77	126	100	97	96
27								
28								
29								
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	E5KR4	134 *	120	118	182	108	104	102	4
02	E5KR4RE	116	113	109	150	94	92	98	1
03	E5KR5	127 *	113	116	186 *	131	106	112	5
04	E5KR5RE	195 *	147 *	103	247 *	137	116	108	7
05	E5KR6	105	105	107	84	106	90	96	0
06	E5KR7	105	107	104	148	90	95	100	0
07	E5KR8	150 *	128 *	123	141	106	100	99	4
08	E5KR8RE	130 *	121	112	142	96	90	95	2
09	E5KR9	109	109	107	137	89	90	97	0
10	E5KS0	153 *	129 *	131 *	150	95	97	99	6
11	E5KS0RE	152 *	128 *	126	135	134	92	99	5
12	E5KS1	125 *	116	68 *	158	100	87	106	3
13	E5KS1RE	117	115	93	146	100	80	99	1
14	E5KS2	195 *	147 *	131 *	198 *	121	122	107	7
15	E5KS2RE	116	109	111	142	121	94	107	0
16	E5KS3	136 *	121	109	158	83	100	105	2
17	E5KS3RE	130 *	118	115	151	111	102	107	2
18	E5KS4	108	102	113	135	122	98	104	0
19	E5KS5	132 *	116	124	156	115	110	107	2
20	E5KS5RE	157 *	129 *	120	119	126	104	106	5
21	E5KS6	124	118	116	147	66	92	97	1
22	E5KS6MS	129 *	116	112	92	91	90	99	2
23	E5KS6MSD	153 *	127 *	113	47	92	97	101	5
24	VBLKS1	92	99	99	75	75	78	97	0
25	VBLKS2	91	98	98	68	78	75	96	0
26	VHBLKS1	91	96	102	128	99	81	100	0
27									
28									
29									
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix Spike - EPA Sample No.: E5KS6 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	58.	0.0	52.	89	59-172
Trichloroethene	58.	0.0	46.	78	62-137
Benzene	58.	0.0	56.	97	66-142
Toluene	58.	0.19	43.	73	59-139
Chlorobenzene	58.	0.0	34.	59 *	60-133

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	52.	71.	136	41 *	0-22	59-172
Trichloroethene	52.	75.	143 *	59 *	0-24	62-137
Benzene	52.	88.	169 *	55 *	0-21	66-142
Toluene	52.	69.	131	57 *	0-21	59-139
Chlorobenzene	52.	55.	105	56 *	0-21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 5 out of 5 outside limits

Spike Recovery: 3 out of 10 outside limits

COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab File ID: SW89BLK Lab Sample ID: 232991

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 08/16/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 09:27

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E5KR4	1122263001	SW90C001	09:58
02	E5KR5	1122263002	SW91C002	10:30
03	E5KR6	1122263003	SW92C003	11:01
04	E5KS6	1122263004	SW93C004	11:32
05	E5KR7	1122354001	SW94C001	12:04
06	E5KR8	1122354002	SW95C002	12:35
07	E5KS0	1122354004	SW97C004	13:39
08	E5KS1	1122354005	SW98C005	14:10
09	E5KS2	1122354006	SW99C006	14:42
10	E5KS3	1122354007	SX00C007	15:14
11	E5KS5	1122354009	SX02C009	16:18
12	E5KS6MS	1122263005	SX03S005	16:50
13	E5KS6MSD	1122263006	SX04D006	17:22
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab File ID: SX09BLK Lab Sample ID: 232992

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 08/17/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 09:29

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E5KR4RE	1122263001RE	SX10R001	10:00
02	E5KR5RE	1122263002RE	SX11R002	10:32
03	E5KR8RE	1122354002RE	SX12R002	11:03
04	E5KR9	1122354003	SX13R003	11:35
05	E5KS0RE	1122354004RE	SX14R004	12:07
06	E5KS1RE	1122354005RE	SX15R005	12:38
07	E5KS2RE	1122354006RE	SX16R006	13:10
08	E5KS3RE	1122354007RE	SX17R007	13:42
09	E5KS4	1122354008	SX18R008	14:14
10	E5KS5RE	1122354009RE	SX19R009	14:46
11	VHBLKS1	232993	SX20HBLK	15:19
12				
13				
14				
15				
16				
17				
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25				
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27				
28				
29				
30				

COMMENTS:

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: DB624 ID: 0.53 (mm) Init. Calib. Date(s): 07/22/2011 07/22/2011

EPA Sample No.(VSTD#####): VSTD050S1 Date Analyzed: 08/16/2011

Lab File ID (Standard): SW88S50 Time Analyzed: 08:56

Instrument ID: 5972-S Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	2375127	12.70	2885724	8.66	1353001	16.10
	UPPER LIMIT	4750254	13.20	5771448	9.16	2706002	16.60
	LOWER LIMIT	1187564	12.20	1442862	8.16	676501	15.60
	EPA SAMPLE NO.						
01	VBLKS1	2529150	12.69	3070405	8.66	1407349	16.08
02	E5KR4	1196093	12.70	1975991	8.67	409536*	16.08
03	E5KR5	1062140*	12.70	1639589	8.66	367478*	16.08
04	E5KR6	1926722	12.73	2580873	8.68	824138	16.10
05	E5KS6	1596944	12.72	2525663	8.69	515517*	16.10
06	E5KR7	1881990	12.74	2566028	8.68	782066	16.13
07	E5KR8	1161481*	12.74	2140589	8.71	318282*	16.12
08	E5KS0	1111300*	12.71	2097719	8.68	294587*	16.12
09	E5KS1	1472451	12.74	2247030	8.69	513058*	16.11
10	E5KS2	721105*	12.71	1657904	8.69	160922*	16.09
11	E5KS3	1366767	12.70	2276629	8.66	434951*	16.08
12	E5KS5	1286346	12.71	2041253	8.66	400803*	16.08
13	E5KS6MS	1470058	12.71	2368406	8.66	432676*	16.09
14	E5KS6MSD	1079294*	12.72	1982870	8.67	263246*	16.10
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 contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: DB624 ID: 0.53 (mm) Init. Calib. Date(s): 07/22/2011 07/22/2011

EPA Sample No.(VSTD#####): VSTD050S3 Date Analyzed: 08/17/2011

Lab File ID (Standard): SX08S50 Time Analyzed: 08:58

Instrument ID: 5972-S Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	2377532	12.70	2854618	8.66	1369943	16.10
	UPPER LIMIT	4755064	13.20	5709236	9.16	2739886	16.60
	LOWER LIMIT	1188766	12.20	1427309	8.16	684972	15.60
	EPA SAMPLE NO.						
01	VBLKS2	2473958	12.70	3001587	8.67	1393436	16.08
02	E5KR4RE	1471215	12.73	2182260	8.71	555452*	16.11
03	E5KR5RE	715792*	12.72	1639255	8.69	168728*	16.10
04	E5KR8RE	1414741	12.73	2295961	8.68	480558*	16.11
05	E5KR9	1763306	12.73	2495323	8.69	720220	16.12
06	E5KS0RE	862466*	12.73	1598114	8.69	255746*	16.13
07	E5KS1RE	1553105	12.74	2299495	8.70	593222*	16.13
08	E5KS2RE	1347205	12.75	1928874	8.71	530328*	16.12
09	E5KS3RE	1319764	12.74	2097148	8.70	415599*	16.12
10	E5KS4	1502021	12.74	2000260	8.69	738425	16.11
11	E5KS5RE	951098*	12.73	1782786	8.69	265145*	16.13
12	VHBLKS1	2336268	12.73	2784125	8.67	1347853	16.11
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 contract required QC limits with an asterisk.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001

Sample wt/vol: 5.74 (g/mL) g Lab File ID: SW90C001

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 10. Date Analyzed: 08/16/2011

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	4.5	J
75-15-0	Carbon disulfide	4.9	U
79-20-9	Methyl acetate	4.9	U
75-09-2	Methylene chloride	0.64	J
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	9.7	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	97.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001

Sample wt/vol: 5.74 (g/mL) g Lab File ID: SW90C001

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 10. Date Analyzed: 08/16/2011

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	9.7	U
108-88-3	Toluene	0.28	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	9.7	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 ~~0.50~~	~~JB~~ U

CR 9/14/11

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001

Sample wt/vol: 5.74 (g/mL) g Lab File ID: SW90C001

Level: (TRACE or LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 10. Date Analyzed: 08/16/2011

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		Unknown Fluorocarbon	5.57	9.0	J
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.

E5KR4RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001RE

Sample wt/vol: 5.21 (g/mL) g Lab File ID: SX10R001

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 10. Date Analyzed: 08/17/2011

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	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
67-64-1	Acetone	11.	U
75-15-0	Carbon disulfide	5.3	U
79-20-9	Methyl acetate	5.3	U
75-09-2	Methylene chloride	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
110-82-7	Cyclohexane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
71-43-2	Benzene	5.3	U
107-06-2	1,2-Dichloroethane	5.3	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.

E5KR4RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001RE

Sample wt/vol: 5.21 (g/mL) g Lab File ID: SX10R001

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 10. Date Analyzed: 08/17/2011

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	5.3	U
108-87-2	Methylcyclohexane	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.50	J
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U
95-47-6	o-Xylene	5.3	U
179601-23-1	m,p-Xylene	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3 ~~0.29~~	~~JB~~ U
87-61-6	1,2,3-Trichlorobenzene	5.3 ~~0.47~~	~~JB~~ U

CM 9/14/11

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR4RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001RE

Sample wt/vol: 5.21 (g/mL) g Lab File ID: SX10R001

Level: (TRACE or LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 10. Date Analyzed: 08/17/2011

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		Unknown Fluorocarbon	5.55	6.7	J
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.

E5KR5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002

Sample wt/vol: 6.19 (g/mL) g Lab File ID: SW91C002

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 13. Date Analyzed: 08/16/2011

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	4.6	U
74-87-3	Chloromethane	4.6	U
75-01-4	Vinyl chloride	4.6	U
74-83-9	Bromomethane	4.6	U
75-00-3	Chloroethane	4.6	U
75-69-4	Trichlorofluoromethane	4.6	U
75-35-4	1,1-Dichloroethene	4.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U
67-64-1	Acetone	8.1	J
75-15-0	Carbon disulfide	1.1	J
79-20-9	Methyl acetate	4.6	U
75-09-2	Methylene chloride	4.6	U
156-60-5	trans-1,2-Dichloroethene	4.6	U
1634-04-4	Methyl tert-butyl ether	4.6	U
75-34-3	1,1-Dichloroethane	4.6	U
156-59-2	cis-1,2-Dichloroethene	4.6	U
78-93-3	2-Butanone	9.3	U
74-97-5	Bromochloromethane	4.6	U
67-66-3	Chloroform	0.43	J
71-55-6	1,1,1-Trichloroethane	4.6	U
110-82-7	Cyclohexane	4.6	U
56-23-5	Carbon tetrachloride	4.6	U
71-43-2	Benzene	4.6	U
107-06-2	1,2-Dichloroethane	4.6	U
123-91-1	1,4-Dioxane	93.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002

Sample wt/vol: 6.19 (g/mL) g Lab File ID: SW91C002

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 13. Date Analyzed: 08/16/2011

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	4.6	U
108-87-2	Methylcyclohexane	4.6	U
78-87-5	1,2-Dichloropropane	4.6	U
75-27-4	Bromodichloromethane	4.6	U
10061-01-5	cis-1,3-Dichloropropene	4.6	U
108-10-1	4-Methyl-2-Pentanone	9.3	U
108-88-3	Toluene	0.26	J
10061-02-6	trans-1,3-Dichloropropene	4.6	U
79-00-5	1,1,2-Trichloroethane	4.6	U
127-18-4	Tetrachloroethene	4.6	U
591-78-6	2-Hexanone	9.3	U
124-48-1	Dibromochloromethane	4.6	U
106-93-4	1,2-Dibromoethane	4.6	U
108-90-7	Chlorobenzene	4.6	U
100-41-4	Ethylbenzene	4.6	U
95-47-6	o-Xylene	4.6	U
179601-23-1	m,p-Xylene	4.6	U
100-42-5	Styrene	4.6	U
75-25-2	Bromoform	4.6	U
98-82-8	Isopropylbenzene	4.6	U
79-34-5	1,1,2,2-Tetrachloroethane	4.6	U
541-73-1	1,3-Dichlorobenzene	4.6	U
106-46-7	1,4-Dichlorobenzene	4.6	U
95-50-1	1,2-Dichlorobenzene	4.6	U
96-12-8	1,2-Dibromo-3-chloropropane	4.6	U
120-82-1	1,2,4-Trichlorobenzene	4.6	U
87-61-6	1,2,3-Trichlorobenzene	4.6	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002

Sample wt/vol: 6.19 (g/mL) g Lab File ID: SW91C002

Level: (TRACE or LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 13. Date Analyzed: 08/16/2011

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.

E5KR5RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002RE

Sample wt/vol: 5.31 (g/mL) g Lab File ID: SX11R002

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 13. Date Analyzed: 08/17/2011

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.	
75-15-0	Carbon disulfide	2.6	J
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	0.43	J
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

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR5RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002RE

Sample wt/vol: 5.31 (g/mL) g Lab File ID: SX11R002

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 13. Date Analyzed: 08/17/2011

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	0.89	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.

E5KR5RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002RE

Sample wt/vol: 5.31 (g/mL) g Lab File ID: SX11R002

Level: (TRACE or LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 13. Date Analyzed: 08/17/2011

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.

E5KR6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263003

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW92C003

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 22. Date Analyzed: 08/16/2011

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	U
79-20-9	Methyl acetate	6.4	U
75-09-2	Methylene chloride	6.4	U
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

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263003

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW92C003

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 22. Date Analyzed: 08/16/2011

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.

E5KR6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263003

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW92C003

Level: (TRACE or LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 22. Date Analyzed: 08/16/2011

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	320-60-5	Benzene, 2,4-dichloro-1-(trifluoromethyl	15.67	14.	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
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13					
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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.

E5KR7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001

Sample wt/vol: 6.21 (g/mL) g Lab File ID: SW94C001

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 17. Date Analyzed: 08/16/2011

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	24.	
75-15-0	Carbon disulfide	0.95	J
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	13.	
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	0.98	J
107-06-2	1,2-Dichloroethane	4.9	U
123-91-1	1,4-Dioxane	97.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001

Sample wt/vol: 6.21 (g/mL) g Lab File ID: SW94C001

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 17. Date Analyzed: 08/16/2011

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	1.2	J
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	9.7	U
108-88-3	Toluene	0.56	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	9.7	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	3.3	J
95-47-6	o-Xylene	15.	
179601-23-1	m,p-Xylene	14.	
100-42-5	Styrene	4.9	U
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	0.70	J
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.

E5KR7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001

Sample wt/vol: 6.21 (g/mL) g Lab File ID: SW94C001

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 17. Date Analyzed: 08/16/2011

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.

E5KR8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002

Sample wt/vol: 5.23 (g/mL) g Lab File ID: SW95C002

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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	5.7	J
75-15-0	Carbon disulfide	5.6	U
79-20-9	Methyl acetate	5.6	U
75-09-2	Methylene chloride	5.6	U
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.

E5KR8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002

Sample wt/vol: 5.23 (g/mL) g Lab File ID: SW95C002

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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	0.28	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	5.6	U
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.

E5KR8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002

Sample wt/vol: 5.23 (g/mL) g Lab File ID: SW95C002

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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.

E5KR8RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002RE

Sample wt/vol: 5.60 (g/mL) g Lab File ID: SX12R002

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 14. Date Analyzed: 08/17/2011

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.2	U
79-20-9	Methyl acetate	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
110-82-7	Cyclohexane	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
71-43-2	Benzene	5.2	U
107-06-2	1,2-Dichloroethane	5.2	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.

E5KR8RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002RE

Sample wt/vol: 5.60 (g/mL) g Lab File ID: SX12R002

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 14. Date Analyzed: 08/17/2011

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	5.2	U
108-87-2	Methylcyclohexane	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	0.51	J
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
127-18-4	Tetrachloroethene	0.18	J
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
100-41-4	Ethylbenzene	5.2	U
95-47-6	o-Xylene	5.2	U
179601-23-1	m,p-Xylene	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR8RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002RE

Sample wt/vol: 5.60 (g/mL) g Lab File ID: SX12R002

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 14. Date Analyzed: 08/17/2011

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.

E5KR9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354003

Sample wt/vol: 5.71 (g/mL) g Lab File ID: SX13R003

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 20. Date Analyzed: 08/17/2011

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	18.	
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	0.83	J
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	6.2	
78-93-3	2-Butanone	11.	J
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	0.42	J
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

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354003

Sample wt/vol: 5.71 (g/mL) g Lab File ID: SX13R003

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 20. Date Analyzed: 08/17/2011

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	6.8	
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	0.66	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	0.56	J
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	0.22	J
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.

E5KR9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354003

Sample wt/vol: 5.71 (g/mL) g Lab File ID: SX13R003

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 20. Date Analyzed: 08/17/2011

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.

E5KS0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004

Sample wt/vol: 5.86 (g/mL) g Lab File ID: SW97C004

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 8.6 Date Analyzed: 08/16/2011

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	4.7	U
74-87-3	Chloromethane	4.7	U
75-01-4	Vinyl chloride	4.7	U
74-83-9	Bromomethane	4.7	U
75-00-3	Chloroethane	4.7	U
75-69-4	Trichlorofluoromethane	4.7	U
75-35-4	1,1-Dichloroethene	4.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	U
67-64-1	Acetone	9.3	U
75-15-0	Carbon disulfide	4.7	U
79-20-9	Methyl acetate	4.7	U
75-09-2	Methylene chloride	1.2	J
156-60-5	trans-1,2-Dichloroethene	4.7	U
1634-04-4	Methyl tert-butyl ether	4.7	U
75-34-3	1,1-Dichloroethane	4.7	U
156-59-2	cis-1,2-Dichloroethene	4.7	U
78-93-3	2-Butanone	9.3	U
74-97-5	Bromochloromethane	4.7	U
67-66-3	Chloroform	4.7	U
71-55-6	1,1,1-Trichloroethane	4.7	U
110-82-7	Cyclohexane	4.7	U
56-23-5	Carbon tetrachloride	4.7	U
71-43-2	Benzene	4.7	U
107-06-2	1,2-Dichloroethane	4.7	U
123-91-1	1,4-Dioxane	93.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004

Sample wt/vol: 5.86 (g/mL) g Lab File ID: SW97C004

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 8.6 Date Analyzed: 08/16/2011

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	4.7	U
108-87-2	Methylcyclohexane	4.7	U
78-87-5	1,2-Dichloropropane	4.7	U
75-27-4	Bromodichloromethane	4.7	U
10061-01-5	cis-1,3-Dichloropropene	4.7	U
108-10-1	4-Methyl-2-Pentanone	9.3	U
108-88-3	Toluene	0.33	J
10061-02-6	trans-1,3-Dichloropropene	4.7	U
79-00-5	1,1,2-Trichloroethane	4.7	U
127-18-4	Tetrachloroethene	0.31	J
591-78-6	2-Hexanone	9.3	U
124-48-1	Dibromochloromethane	4.7	U
106-93-4	1,2-Dibromoethane	4.7	U
108-90-7	Chlorobenzene	4.7	U
100-41-4	Ethylbenzene	4.7	U
95-47-6	o-Xylene	4.7	U
179601-23-1	m,p-Xylene	4.7	U
100-42-5	Styrene	4.7	U
75-25-2	Bromoform	4.7	U
98-82-8	Isopropylbenzene	4.7	U
79-34-5	1,1,2,2-Tetrachloroethane	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
87-61-6	1,2,3-Trichlorobenzene	4.7	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004

Sample wt/vol: 5.86 (g/mL) g Lab File ID: SW97C004

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 8.6 Date Analyzed: 08/16/2011

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	62.	J

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS0RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004RE

Sample wt/vol: 5.95 (g/mL) g Lab File ID: SX14R004

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 8.6 Date Analyzed: 08/17/2011

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	4.6	U
74-87-3	Chloromethane	4.6	U
75-01-4	Vinyl chloride	4.6	U
74-83-9	Bromomethane	4.6	U
75-00-3	Chloroethane	4.6	U
75-69-4	Trichlorofluoromethane	4.6	U
75-35-4	1,1-Dichloroethene	4.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U
67-64-1	Acetone	9.2	U
75-15-0	Carbon disulfide	4.6	U
79-20-9	Methyl acetate	4.6	U
75-09-2	Methylene chloride	4.6	U
156-60-5	trans-1,2-Dichloroethene	4.6	U
1634-04-4	Methyl tert-butyl ether	4.6	U
75-34-3	1,1-Dichloroethane	4.6	U
156-59-2	cis-1,2-Dichloroethene	4.6	U
78-93-3	2-Butanone	9.2	U
74-97-5	Bromochloromethane	4.6	U
67-66-3	Chloroform	4.6	U
71-55-6	1,1,1-Trichloroethane	4.6	U
110-82-7	Cyclohexane	4.6	U
56-23-5	Carbon tetrachloride	4.6	U
71-43-2	Benzene	4.6	U
107-06-2	1,2-Dichloroethane	4.6	U
123-91-1	1,4-Dioxane	92.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS0RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004RE

Sample wt/vol: 5.95 (g/mL) g Lab File ID: SX14R004

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 8.6 Date Analyzed: 08/17/2011

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	4.6	U
108-87-2	Methylcyclohexane	4.6	U
78-87-5	1,2-Dichloropropane	4.6	U
75-27-4	Bromodichloromethane	4.6	U
10061-01-5	cis-1,3-Dichloropropene	4.6	U
108-10-1	4-Methyl-2-Pentanone	9.2	U
108-88-3	Toluene	0.74	J
10061-02-6	trans-1,3-Dichloropropene	4.6	U
79-00-5	1,1,2-Trichloroethane	4.6	U
127-18-4	Tetrachloroethene	4.6	U
591-78-6	2-Hexanone	9.2	U
124-48-1	Dibromochloromethane	4.6	U
106-93-4	1,2-Dibromoethane	4.6	U
108-90-7	Chlorobenzene	4.6	U
100-41-4	Ethylbenzene	4.6	U
95-47-6	o-Xylene	4.6	U
179601-23-1	m,p-Xylene	4.6	U
100-42-5	Styrene	4.6	U
75-25-2	Bromoform	4.6	U
98-82-8	Isopropylbenzene	4.6	U
79-34-5	1,1,2,2-Tetrachloroethane	4.6	U
541-73-1	1,3-Dichlorobenzene	4.6	U
106-46-7	1,4-Dichlorobenzene	4.6	U
95-50-1	1,2-Dichlorobenzene	4.6	U
96-12-8	1,2-Dibromo-3-chloropropane	4.6	U
120-82-1	1,2,4-Trichlorobenzene	4.6	U
87-61-6	1,2,3-Trichlorobenzene	4.6	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS0RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004RE

Sample wt/vol: 5.95 (g/mL) g Lab File ID: SX14R004

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 8.6 Date Analyzed: 08/17/2011

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					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	11.	J

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005

Sample wt/vol: 5.77 (g/mL) g Lab File ID: SW98C005

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 22. Date Analyzed: 08/16/2011

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	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	42.	
75-15-0	Carbon disulfide	2.0	J
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	0.84	J
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	22.	
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	1.9	J
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	0.63	J
56-23-5	Carbon tetrachloride	5.5	U
71-43-2	Benzene	1.9	J
107-06-2	1,2-Dichloroethane	5.5	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.

E5KS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005

Sample wt/vol: 5.77 (g/mL) g Lab File ID: SW98C005

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 22. Date Analyzed: 08/16/2011

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	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	3.4	J
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.80	J
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	0.19	J
95-47-6	o-Xylene	1.2	J
179601-23-1	m,p-Xylene	0.33	J
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005

Sample wt/vol: 5.77 (g/mL) g Lab File ID: SW98C005

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 22. Date Analyzed: 08/16/2011

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		Unknown Deuterated Trichloroethene	9.04	6.3	~~J~~ U
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.

CM 9/14/11

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS1RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005RE

Sample wt/vol: 5.28 (g/mL) g Lab File ID: SX15R005

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 22. Date Analyzed: 08/17/2011

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	30.	
75-15-0	Carbon disulfide	6.0	U
79-20-9	Methyl acetate	6.0	U
75-09-2	Methylene chloride	6.0	U
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	16.	
74-97-5	Bromochloromethane	6.0	U
67-66-3	Chloroform	1.5	J
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

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS1RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005RE

Sample wt/vol: 5.28 (g/mL) g Lab File ID: SX15R005

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 22. Date Analyzed: 08/17/2011

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	4.5	J
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	0.90	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	0.49	J
179601-23-1	m,p-Xylene	0.22	J
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.

E5KS1RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005RE

Sample wt/vol: 5.28 (g/mL) g Lab File ID: SX15R005

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 22. Date Analyzed: 08/17/2011

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.

E5KS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006

Sample wt/vol: 6.19 (g/mL) g Lab File ID: SW99C006

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 9.7 Date Analyzed: 08/16/2011

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	4.5	U
74-87-3	Chloromethane	4.5	U
75-01-4	Vinyl chloride	4.5	U
74-83-9	Bromomethane	4.5	U
75-00-3	Chloroethane	4.5	U
75-69-4	Trichlorofluoromethane	4.5	U
75-35-4	1,1-Dichloroethene	4.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.5	U
67-64-1	Acetone	8.9	U
75-15-0	Carbon disulfide	4.5	U
79-20-9	Methyl acetate	4.5	U
75-09-2	Methylene chloride	4.5	U
156-60-5	trans-1,2-Dichloroethene	4.5	U
1634-04-4	Methyl tert-butyl ether	4.5	U
75-34-3	1,1-Dichloroethane	4.5	U
156-59-2	cis-1,2-Dichloroethene	4.5	U
78-93-3	2-Butanone	8.9	U
74-97-5	Bromochloromethane	4.5	U
67-66-3	Chloroform	4.5	U
71-55-6	1,1,1-Trichloroethane	4.5	U
110-82-7	Cyclohexane	4.5	U
56-23-5	Carbon tetrachloride	4.5	U
71-43-2	Benzene	4.5	U
107-06-2	1,2-Dichloroethane	4.5	U
123-91-1	1,4-Dioxane	89.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006

Sample wt/vol: 6.19 (g/mL) g Lab File ID: SW99C006

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 9.7 Date Analyzed: 08/16/2011

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	4.5	U
108-87-2	Methylcyclohexane	4.5	U
78-87-5	1,2-Dichloropropane	4.5	U
75-27-4	Bromodichloromethane	4.5	U
10061-01-5	cis-1,3-Dichloropropene	4.5	U
108-10-1	4-Methyl-2-Pentanone	8.9	U
108-88-3	Toluene	0.52	J
10061-02-6	trans-1,3-Dichloropropene	4.5	U
79-00-5	1,1,2-Trichloroethane	4.5	U
127-18-4	Tetrachloroethene	4.5	U
591-78-6	2-Hexanone	8.9	U
124-48-1	Dibromochloromethane	4.5	U
106-93-4	1,2-Dibromoethane	4.5	U
108-90-7	Chlorobenzene	4.5	U
100-41-4	Ethylbenzene	4.5	U
95-47-6	o-Xylene	4.5	U
179601-23-1	m,p-Xylene	4.5	U
100-42-5	Styrene	4.5	U
75-25-2	Bromoform	4.5	U
98-82-8	Isopropylbenzene	4.5	U
79-34-5	1,1,2,2-Tetrachloroethane	4.5	U
541-73-1	1,3-Dichlorobenzene	4.5	U
106-46-7	1,4-Dichlorobenzene	4.5	U
95-50-1	1,2-Dichlorobenzene	4.5	U
96-12-8	1,2-Dibromo-3-chloropropane	4.5	U
120-82-1	1,2,4-Trichlorobenzene	4.5	U
87-61-6	1,2,3-Trichlorobenzene	4.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006

Sample wt/vol: 6.19 (g/mL) g Lab File ID: SW99C006

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 9.7 Date Analyzed: 08/16/2011

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	55.	J

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS2RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006RE

Sample wt/vol: 6.41 (g/mL) g Lab File ID: SX16R006

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 9.7 Date Analyzed: 08/17/2011

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	4.3	U
74-87-3	Chloromethane	4.3	U
75-01-4	Vinyl chloride	4.3	U
74-83-9	Bromomethane	4.3	U
75-00-3	Chloroethane	4.3	U
75-69-4	Trichlorofluoromethane	4.3	U
75-35-4	1,1-Dichloroethene	4.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.3	U
67-64-1	Acetone	8.6	U
75-15-0	Carbon disulfide	4.3	U
79-20-9	Methyl acetate	4.3	U
75-09-2	Methylene chloride	4.3	U
156-60-5	trans-1,2-Dichloroethene	4.3	U
1634-04-4	Methyl tert-butyl ether	4.3	U
75-34-3	1,1-Dichloroethane	4.3	U
156-59-2	cis-1,2-Dichloroethene	4.3	U
78-93-3	2-Butanone	8.6	U
74-97-5	Bromochloromethane	4.3	U
67-66-3	Chloroform	0.30	J
71-55-6	1,1,1-Trichloroethane	4.3	U
110-82-7	Cyclohexane	4.3	U
56-23-5	Carbon tetrachloride	4.3	U
71-43-2	Benzene	4.3	U
107-06-2	1,2-Dichloroethane	4.3	U
123-91-1	1,4-Dioxane	86.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS2RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006RE

Sample wt/vol: 6.41 (g/mL) g Lab File ID: SX16R006

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 9.7 Date Analyzed: 08/17/2011

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	4.3	U
108-87-2	Methylcyclohexane	4.3	U
78-87-5	1,2-Dichloropropane	4.3	U
75-27-4	Bromodichloromethane	4.3	U
10061-01-5	cis-1,3-Dichloropropene	4.3	U
108-10-1	4-Methyl-2-Pentanone	8.6	U
108-88-3	Toluene	0.49	J
10061-02-6	trans-1,3-Dichloropropene	4.3	U
79-00-5	1,1,2-Trichloroethane	4.3	U
127-18-4	Tetrachloroethene	4.3	U
591-78-6	2-Hexanone	8.6	U
124-48-1	Dibromochloromethane	4.3	U
106-93-4	1,2-Dibromoethane	4.3	U
108-90-7	Chlorobenzene	4.3	U
100-41-4	Ethylbenzene	4.3	U
95-47-6	o-Xylene	4.3	U
179601-23-1	m,p-Xylene	4.3	U
100-42-5	Styrene	4.3	U
75-25-2	Bromoform	4.3	U
98-82-8	Isopropylbenzene	4.3	U
79-34-5	1,1,2,2-Tetrachloroethane	4.3	U
541-73-1	1,3-Dichlorobenzene	4.3	U
106-46-7	1,4-Dichlorobenzene	4.3	U
95-50-1	1,2-Dichlorobenzene	4.3	U
96-12-8	1,2-Dibromo-3-chloropropane	4.3	U
120-82-1	1,2,4-Trichlorobenzene	4.3	U
87-61-6	1,2,3-Trichlorobenzene	4.3	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS2RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006RE

Sample wt/vol: 6.41 (g/mL) g Lab File ID: SX16R006

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 9.7 Date Analyzed: 08/17/2011

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.

E5KS3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007

Sample wt/vol: 5.69 (g/mL) g Lab File ID: SX00C007

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 21. Date Analyzed: 08/16/2011

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	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	31.	
75-15-0	Carbon disulfide	1.1	J
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	0.44	J
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	16.	
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	1.8	J
56-23-5	Carbon tetrachloride	5.5	U
71-43-2	Benzene	5.4	J
107-06-2	1,2-Dichloroethane	5.5	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.

E5KS3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007

Sample wt/vol: 5.69 (g/mL) g Lab File ID: SX00C007

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 21. Date Analyzed: 08/16/2011

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	5.5	U
108-87-2	Methylcyclohexane	4.1	J
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.56	J
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	23.	
95-47-6	o-Xylene	0.37	J
179601-23-1	m,p-Xylene	1.8	J
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	6.7	
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	3.3	J
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007

Sample wt/vol: 5.69 (g/mL) g Lab File ID: SX00C007

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 21. Date Analyzed: 08/16/2011

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		Unknown Fluorocarbon	5.54	6.2	J
02	108-67-8	Benzene, 1,3,5-trimethyl-	14.99	16.	JN
03	526-73-8	Benzene, 1,2,3-trimethyl-	15.55	26.	JN
04	496-11-7	Indane	16.50	17.	JN
05		Unknown C4 Unsaturated Sub Benzene + Col	17.37	8.4	J
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	13.	J

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS3RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007RE

Sample wt/vol: 5.53 (g/mL) g Lab File ID: SX17R007

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 21. Date Analyzed: 08/17/2011

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
67-64-1	Acetone	29.	
75-15-0	Carbon disulfide	5.7	U
79-20-9	Methyl acetate	5.7	U
75-09-2	Methylene chloride	0.55	J
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	0.41	J
156-59-2	cis-1,2-Dichloroethene	5.7	U
78-93-3	2-Butanone	16.	
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
110-82-7	Cyclohexane	1.4	J
56-23-5	Carbon tetrachloride	5.7	U
71-43-2	Benzene	4.1	J
107-06-2	1,2-Dichloroethane	5.7	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.

E5KS3RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007RE

Sample wt/vol: 5.53 (g/mL) g Lab File ID: SX17R007

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 21. Date Analyzed: 08/17/2011

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	0.31	J
108-87-2	Methylcyclohexane	3.9	J
78-87-5	1,2-Dichloropropane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.74	J
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
100-41-4	Ethylbenzene	21.	
95-47-6	o-Xylene	5.7	U
179601-23-1	m,p-Xylene	1.5	J
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	6.1	
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	1.6	J
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS3RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007RE

Sample wt/vol: 5.53 (g/mL) g Lab File ID: SX17R007

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 21. Date Analyzed: 08/17/2011

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		Unknown Benzene, propyl-	14.78	7.3	J
02	95-63-6	Benzene, 1,2,4-trimethyl-	15.03	12.	JN
03	611-14-3	Benzene, 1-ethyl-2-methyl-	15.34	7.7	JN
04	526-73-8	Benzene, 1,2,3-trimethyl-	15.60	20.	JN
05	496-11-7	Indane	16.53	21.	JN
06		Unknown C4 Unsaturated Sub Benzene + Col	17.41	8.6	J
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.

E5KS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354008

Sample wt/vol: 4.93 (g/mL) g Lab File ID: SX18R008

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 11. Date Analyzed: 08/17/2011

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	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
67-64-1	Acetone	11.	U
75-15-0	Carbon disulfide	5.7	U
79-20-9	Methyl acetate	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
110-82-7	Cyclohexane	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
71-43-2	Benzene	5.7	U
107-06-2	1,2-Dichloroethane	5.7	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.

E5KS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354008

Sample wt/vol: 4.93 (g/mL) g Lab File ID: SX18R008

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 11. Date Analyzed: 08/17/2011

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	5.7	U
108-87-2	Methylcyclohexane	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.45	J
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
100-41-4	Ethylbenzene	5.7	U
95-47-6	o-Xylene	5.7	U
179601-23-1	m,p-Xylene	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354008

Sample wt/vol: 4.93 (g/mL) g Lab File ID: SX18R008

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 11. Date Analyzed: 08/17/2011

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		Unknown Deuterated Trichloroethene	9.05	5.9	~~J~~ U
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.

CM 9/14/11

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009

Sample wt/vol: 5.77 (g/mL) g Lab File ID: SX02C009

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 20. Date Analyzed: 08/16/2011

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	U
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

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009

Sample wt/vol: 5.77 (g/mL) g Lab File ID: SX02C009

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 20. Date Analyzed: 08/16/2011

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	0.25	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.

E5KS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009

Sample wt/vol: 5.77 (g/mL) g Lab File ID: SX02C009

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 20. Date Analyzed: 08/16/2011

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.

E5KS5RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009RE

Sample wt/vol: 6.04 (g/mL) g Lab File ID: SX19R009

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 20. Date Analyzed: 08/17/2011

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.2	U
79-20-9	Methyl acetate	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
110-82-7	Cyclohexane	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
71-43-2	Benzene	5.2	U
107-06-2	1,2-Dichloroethane	5.2	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.

E5KS5RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009RE

Sample wt/vol: 6.04 (g/mL) g Lab File ID: SX19R009

Level: (TRACE/LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 20. Date Analyzed: 08/17/2011

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	5.2	U
108-87-2	Methylcyclohexane	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	0.82	J
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
127-18-4	Tetrachloroethene	0.16	J
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
100-41-4	Ethylbenzene	5.2	U
95-47-6	o-Xylene	5.2	U
179601-23-1	m,p-Xylene	0.20	J
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS5RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009RE

Sample wt/vol: 6.04 (g/mL) g Lab File ID: SX19R009

Level: (TRACE or LOW/MED) LOW Date Received: 08/11/2011

% Moisture: not dec. 20. Date Analyzed: 08/17/2011

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		Unknown Fluorocarbon	5.56	7.2	J
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.

E5KS6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263004

Sample wt/vol: 5.80 (g/mL) g Lab File ID: SW93C004

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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.

E5KS6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263004

Sample wt/vol: 5.80 (g/mL) g Lab File ID: SW93C004

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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	0.19	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.

E5KS6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263004

Sample wt/vol: 5.80 (g/mL) g Lab File ID: SW93C004

Level: (TRACE or LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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.

E5KS6MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263005

Sample wt/vol: 4.96 (g/mL) g Lab File ID: SX03S005

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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	52.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
67-64-1	Acetone	6.6	J
75-15-0	Carbon disulfide	5.8	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	56.	
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.

E5KS6MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263005

Sample wt/vol: 4.96 (g/mL) g Lab File ID: SX03S005

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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	46.	
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	43.	
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	34.	
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

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263006

Sample wt/vol: 5.56 (g/mL) g Lab File ID: SX04D006

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	71.	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
67-64-1	Acetone	6.1	J
75-15-0	Carbon disulfide	5.2	U
79-20-9	Methyl acetate	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
110-82-7	Cyclohexane	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
71-43-2	Benzene	88.	
107-06-2	1,2-Dichloroethane	5.2	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.

E5KS6MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263006

Sample wt/vol: 5.56 (g/mL) g Lab File ID: SX04D006

Level: (TRACE/LOW/MED) LOW Date Received: 08/10/2011

% Moisture: not dec. 14. Date Analyzed: 08/16/2011

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	75.	
108-87-2	Methylcyclohexane	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	69.	
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	55.	
100-41-4	Ethylbenzene	5.2	U
95-47-6	o-Xylene	5.2	U
179601-23-1	m,p-Xylene	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232991

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW89BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/16/2011

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.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232991

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW89BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/16/2011

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	0.84	J
87-61-6	1,2,3-Trichlorobenzene	1.8	J

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232991

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SW89BLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/16/2011

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.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232992

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SX09BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/17/2011

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.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232992

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SX09BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/17/2011

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	0.87	J
87-61-6	1,2,3-Trichlorobenzene	1.8	J

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232992

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SX09BLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/17/2011

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.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232993

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SX20HBLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/17/2011

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232993

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SX20HBLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/17/2011

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232993

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SX20HBLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0.0 Date Analyzed: 08/17/2011

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		Unknown Deuterated Trichloroethene	9.02	5.2	J
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.

2J - FORM II SV-3
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	E5KR4	54	51	57	51	62	59	59	11
02	E5KR5	41	35	40	40	43	39	41	12
03	E5KR6	54	41	50	35	49	51	56	3
04	E5KR7	112 *	51	54	49	55	56	57	1
05	E5KR7DL	21	51	49	13	44	47	31	7
06	E5KR8	121 *	51	58	43	60	61	60	3
07	E5KR9	56	51	62	51	55	46	61	1
08	E5KS0	114 *	52	57	32	61	60	54	2
09	E5KS1	47	49	55	46	55	52	55	1 *
10	E5KS2	101	49	52	20	57	54	30	4
11	E5KS3	32	44	51	33	49	48	56	1 *
12	E5KS4	42	56	59	46	63	60	57	24
13	E5KS5	112 *	51	54	30	56	56	50	3
14	E5KS5DL	94	48	48	10	48	47	39	12
15	E5KS6	54	43	53	39	51	52	56	8
16	E5KS6MS	58	51	54	47	53	54	58	9
17	E5KS6MSD	52	51	51	42	53	53	52	2
18	SBLK03	70	63	69	56	68	70	71	35
19	SBLK32	53	44	51	36	50	51	51	5
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

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	E5KR4	67	60	48	67	21	60	60	60	0
02	E5KR5	48	43	35	49	7	45	41 *	45	1
03	E5KR6	60	54	49	58	42	53	52	53	0
04	E5KR7	60	56	69	61	34	55	40 *	53	2
05	E5KR7DL	58	51	31	54	22	61	44 D	51	0
06	E5KR8	65	60	64	65	37	58	52	58	1
07	E5KR9	72	63	32	69	41	63	57	61	0
08	E5KS0	66	60	67	65	27	59	48 *	57	2
09	E5KS1	58	53	50	59	39	53	50 *	51	2
10	E5KS2	61	56	57	61	17	55	48 *	55	1
11	E5KS3	60	53	57	59	39	52	47 *	50	2
12	E5KS4	68	63	56	69	21	63	59	63	0
13	E5KS5	64	58	56	63	31	56	48 *	53	2
14	E5KS5DL	56	50	32	53	22	53	45 D	47	0
15	E5KS6	61	54	51	59	38	55	52	55	0
16	E5KS6MS	61	56	59	60	40	54	50 *	52	1
17	E5KS6MSD	61	54	63	60	41	52	48 *	52	1
18	SBLK03	81	73	60	79	56	68	67	67	0
19	SBLK32	61	52	44	58	42	51	51	51	0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix Spike - EPA Sample No.: E5KS6 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
Phenol	1500	0.0	820	53	26-90
2-Chlorophenol	1500	0.0	840	55	25-102
N-Nitroso-di-n-propylamine	1500	0.0	890	57	41-126
4-Chloro-3-methylphenol	1500	0.0	880	57	26-103
Acenaphthene	1500	0.0	950	61	31-137
4-Nitrophenol	1500	0.0	1400	91	11-114
2,4-Dinitrotoluene	1500	0.0	920	60	28-89
Pentachlorophenol	1500	0.0	840	54	17-109
Pyrene	1500	19.	890	56	35-142

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
Phenol	1500	770	50	6	0-35	26-90
2-Chlorophenol	1500	790	51	7	0-50	25-102
N-Nitroso-di-n-propylamine	1500	900	58	1	0-38	41-126
4-Chloro-3-methylphenol	1500	780	51	12	0-33	26-103
Acenaphthene	1500	940	61	0	0-19	31-137
4-Nitrophenol	1500	1500	96	6	0-50	11-114
2,4-Dinitrotoluene	1500	920	60	1	0-47	28-89
Pentachlorophenol	1500	710	46	17	0-47	17-109
Pyrene	1500	870	55	2	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: 0 out of 18 outside limits

COMMENTS: _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK03

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab File ID: HBX03BLK Lab Sample ID: 232203

Instrument ID: 5975-H Date Extracted: 08/11/2011

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 08/16/2011

Level: (LOW/MED) LOW Time Analyzed: 15:08

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E5KR4	1122263001	HBX04C01	08/16/2011
02	E5KR5	1122263002	HBX05C02	08/16/2011
03	E5KR6	1122263003	HBX06C03	08/16/2011
04	E5KS6	1122263004	HBX07C04	08/16/2011
05	E5KS6MS	1122263005	HBX08M05	08/16/2011
06	E5KS6MSD	1122263006	HBZ04M06	08/18/2011
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COMMENTS:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab File ID: HBX11BLK Lab Sample ID: 232532

Instrument ID: 5975-H Date Extracted: 08/13/2011

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 08/16/2011

Level: (LOW/MED) LOW Time Analyzed: 19:44

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E5KR7	1122354001	HBX24C01	08/17/2011
02	E5KR7DL	1122354001DL	HBX18C01	08/16/2011
03	E5KR8	1122354002	HBX25C02	08/17/2011
04	E5KR9	1122354003	HBX12C03	08/16/2011
05	E5KS0	1122354004	HBX26C04	08/17/2011
06	E5KS1	1122354005	HBX13C05	08/16/2011
07	E5KS2	1122354006	HBX27C06	08/17/2011
08	E5KS3	1122354007	HBX14C07	08/16/2011
09	E5KS4	1122354008	HBX15C08	08/16/2011
10	E5KS5	1122354009	HBX28C09	08/17/2011
11	E5KS5DL	1122354009DL	HBX22C09	08/17/2011
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COMMENTS: _____

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/27/2011 06/27/2011

EPA Sample No.(SSTD020##): SSTD020HX Date Analyzed: 08/16/2011

Lab File ID (Standard): HBX01S20 Time Analyzed: 12:16

Instrument ID: 5975-H

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	84058	4.48	287513	5.89	167067	8.55
	UPPER LIMIT	168116	4.98	575026	6.39	334134	9.05
	LOWER LIMIT	42029	3.98	143757	5.39	83534	8.05
	EPA SAMPLE NO.						
01	SBLK03	67136	4.48	234424	5.89	137178	8.55
02	E5KR4	57757	4.48	200633	5.89	124388	8.55
03	E5KR5	70604	4.48	247114	5.89	150379	8.55
04	E5KR6	71083	4.48	243487	5.89	141282	8.55
05	E5KS6	73828	4.48	252998	5.89	150641	8.55
06	E5KS6MS	77073	4.48	254232	5.89	147792	8.55
07	SBLK32	76398	4.48	268843	5.89	160394	8.56
08	E5KR9	77826	4.48	264504	5.89	157487	8.55
09	E5KS1	72638	4.48	242954	5.89	145680	8.56
10	E5KS3	79853	4.48	268984	5.90	158920	8.55
11	E5KS4	76262	4.48	261894	5.90	161524	8.56
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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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

EPA Sample No.(SSTD020##): SSTD020HX Date Analyzed: 08/16/2011

Lab File ID (Standard): HBX01S20 Time Analyzed: 12:16

Instrument ID: 5975-H GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	305205	11.21	409324	15.55	299419	18.05
	UPPER LIMIT	610410	11.71	818648	16.05	598838	18.55
	LOWER LIMIT	152603	10.71	204662	15.05	149710	17.55
	EPA SAMPLE NO.						
01	SBLK03	252752	11.20	324737	15.55	264445	18.04
02	E5KR4	236882	11.20	302858	15.54	247431	18.04
03	E5KR5	283015	11.21	365155	15.54	303237	18.04
04	E5KR6	255998	11.21	333078	15.54	278102	18.04
05	E5KS6	277885	11.20	371452	15.54	303518	18.04
06	E5KS6MS	272303	11.20	367010	15.55	303459	18.04
07	SBLK32	293730	11.21	384128	15.54	302236	18.04
08	E5KR9	288611	11.21	407821	15.55	335115	18.05
09	E5KS1	271681	11.21	390266	15.55	313409	18.06
10	E5KS3	297347	11.21	425326	15.55	344013	18.06
11	E5KS4	300423	11.22	416027	15.55	332356	18.06
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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 contract required QC limits with an asterisk.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/27/2011 06/27/2011

EPA Sample No.(SSTD020##): SSTD020X7 Date Analyzed: 08/16/2011

Lab File ID (Standard): HBX16S20 Time Analyzed: 22:39

Instrument ID: 5975-H

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	87618	4.48	289686	5.90	172099	8.56
	UPPER LIMIT	175236	4.98	579372	6.40	344198	9.06
	LOWER LIMIT	43809	3.98	144843	5.40	86050	8.06
	EPA SAMPLE NO.						
01	E5KR7DL	86228	4.48	302067	5.90	178136	8.56
02	E5KS5DL	79409	4.48	273350	5.89	161535	8.56
03	E5KR7	68055	4.47	237123	5.90	143974	8.56
04	E5KR8	73191	4.48	243897	5.90	147539	8.56
05	E5KS0	89522	4.48	290489	5.90	175462	8.56
06	E5KS2	62392	4.48	203178	5.90	126089	8.56
07	E5KS5	79342	4.48	259914	5.90	154295	8.56
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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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

EPA Sample No.(SSTD020##): SSTD020X7 Date Analyzed: 08/16/2011

Lab File ID (Standard): HBX16S20 Time Analyzed: 22:39

Instrument ID: 5975-H GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	323362	11.21	480550	15.55	345497	18.05
	UPPER LIMIT	646724	11.71	961100	16.05	690994	18.55
	LOWER LIMIT	161681	10.71	240275	15.05	172749	17.55
	EPA SAMPLE NO.						
01	E5KR7DL	333860	11.21	478205	15.55	390700	18.06
02	E5KS5DL	305617	11.21	400206	15.55	333927	18.05
03	E5KR7	282038	11.22	613247	15.57	444225	18.10
04	E5KR8	275703	11.22	393556	15.56	307863	18.06
05	E5KS0	328934	11.22	533375	15.56	409684	18.07
06	E5KS2	239459	11.22	337888	15.56	245551	18.07
07	E5KS5	291837	11.22	443537	15.56	367848	18.07
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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 contract required QC limits with an asterisk.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/27/2011 06/27/2011

EPA Sample No.(SSTD020##): SSTD020HZ Date Analyzed: 08/18/2011

Lab File ID (Standard): HBZ03S20 Time Analyzed: 11:23

Instrument ID: 5975-H

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	131116	4.32	450005	5.70	262443	8.32
	UPPER LIMIT	262232	4.82	900010	6.20	524886	8.82
	LOWER LIMIT	65558	3.82	225003	5.20	131222	7.82
	EPA SAMPLE NO.						
01	E5KS6MSD	161732	4.32	542489	5.70	313134	8.32
02							
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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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

EPA Sample No.(SSTD020##): SSTD020HZ Date Analyzed: 08/18/2011

Lab File ID (Standard): HBZ03S20 Time Analyzed: 11:23

Instrument ID: 5975-H GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	496182	10.95	670354	15.34	475586	17.66
	UPPER LIMIT	992364	11.45	1340708	15.84	951172	18.16
	LOWER LIMIT	248091	10.45	335177	14.84	237793	17.16
	EPA SAMPLE NO.						
01	E5KS6MSD	579181	10.95	802594	15.33	649301	17.66
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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 contract required QC limits with an asterisk.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX04C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
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	190	U
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	190	U
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	370	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	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX04C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	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	370	U
85-01-8	Phenanthrene	24.	J
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	7.2	J
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	13.	J
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	15.	J
218-01-9	Chrysene	6.3	J
117-81-7	Bis(2-ethylhexyl)phthalate	950 ~~38.~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	7.6	J
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

cpc 9/14/11

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX04C01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1-Pentanamine	4.38	200	~~J~~ U
02		Unknown Benzene, 1-chloro-4-methoxy-2-methyl-	6.79	190	~~J~~ U
03	107997-59-1	1-(3-Methylbutyl)-2,3,4-trimethylbenzene	8.23	140	JN
04		Unknown Cycloundecanol, 1-methyl-	11.43	130	J
05		Unknown Naphthalene, 1,2-dihydro-4-phenyl-	13.17	130	J
06		Unknown Phthalic acid, nonyl pentadecyl ester	17.07	130	J
07		Unknown 1,2-Benzenedicarboxylic acid, dinonyl es	17.25	100	J
08		Unknown 1,2-Benzenedicarboxylic acid, ditridecyl	17.33	110	J
09		Unknown Dithianone	18.62	820	~~J~~ U
10		Unknown 2-Cyano-3-phenylquinoxaline	19.16	96.	J
11		Unknown Phthalic anhydride	23.67	1100	~~J~~ U
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	11000	J

[2] EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX05C02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	10.	J
108-95-2	Phenol	200	U
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	200	U
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	200	U
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	380	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	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX05C02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.3 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	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	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	380	U
85-01-8	Phenanthrene	13.	J
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	6.1	J
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	7.1	J
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	1000 ~~27.~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
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.

E5KR5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX05C02

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 3-Hydroxy-2-butanone, acetate	4.38	160	~~J~~ U
02		Unknown Pyrazole-3-carboxamide, 4-nitro-	6.79	130	~~J~~ U
03		Unknown Hexadecanoic acid, 2,3-bis(acetyloxy)prc	14.34	92.	J
04		Unknown Phthalic anhydride	18.63	740	~~J~~ U
05		Unknown Phthalic anhydride	23.68	940	~~J~~ U
06					
07					
08					
09					
10					
11					
12					
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28					
29					
30					
	E966796[2]	Total Alkanes	N/A	4700	J

[2] EPA-designated Registry Number.

CR 9/16/11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX06C03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	7.2	J
108-95-2	Phenol	220	U
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	220	U
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	9.1	J
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	27.	J

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX06C03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 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	17.	J
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	220	U
86-73-7	Fluorene	19.	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	52.	J
120-12-7	Anthracene	9.3	J
86-74-8	Carbazole	220	U
84-74-2	Di-n-butylphthalate	220	U
206-44-0	Fluoranthene	41.	J
129-00-0	Pyrene	26.	J
85-68-7	Butylbenzylphthalate	220	U
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	15.	J
218-01-9	Chrysene	9.9	J
117-81-7	Bis(2-ethylhexyl)phthalate	1100 ~~30.~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	14.	J
207-08-9	Benzo(k)fluoranthene	220	U
50-32-8	Benzo(a)pyrene	8.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	220	U
53-70-3	Dibenzo(a,h)anthracene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1] Cannot be separated from Diphenylamine

gr 2/16/11

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX06C03

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 3-Hydroxy-2-butanone, acetate	4.38	280	~~J~~ U
02		Unknown 1,3-Cyclooctadiene, (Z,Z)-	11.46	86.	J
03	57-10-3	n-Hexadecanoic acid	12.35	160	JN
04		Unknown 3,4-Pentadien-1-ol, 2,2-dimethyl-	14.99	95.	J
05	62951-96-6	1,5,9-Undecatriene, 2,6,10-trimethyl-, (Z)-	17.05	110	JN
06		Unknown 4-[N-Methylpiperazin-1-yl]-5-amino verat	18.37	95.	J
07		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	18.63	990	~~J~~ U
08	58-95-7	2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetram	20.22	210	JN
09		Unknown .beta.-Sitosterol	22.53	460	J
10		Unknown 1R,4S,7S,11R-2,2,4,8-Tetramethyltricyclc	23.03	100	J
11		Unknown Quinoline, 2-[2-(3-pyridyl)ethenyl]-	23.19	210	J
12	300574-36-1	5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan	23.43	1100	JN
13		Unknown Phthalic anhydride	23.71	1200	~~J~~ U
14	58801-23-3	Hop-22(29)-en-3.beta.-ol	24.11	430	JN
15		Unknown 2-n-Propylthiane, S,S-dioxide	24.39	130	J
16		Unknown 3,7,11-Trimethyl-dodeca-2,4,6,10-tetraen	24.60	1200	J
17		Unknown Tricyclo[6.3.0.0(2,4)]undec-8-ene, 3,3,7	25.01	200	J
18		Unknown Diepicedrene-1-oxide	25.25	210	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1100	J

[2] EPA-designated Registry Number.

CM 9/16/11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001

Sample wt/vol: 31.6 (g/mL) g Lab File ID: HBX24C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190 ~~40.~~	~~JB~~ U
108-95-2	Phenol	63.	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	190	U
106-44-5	4-Methylphenol	160	J
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	420	
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	150	J
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	40.	J
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	210	
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	110	J

aR 9/12/11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001

Sample wt/vol: 31.6 (g/mL) g Lab File ID: HBX24C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.3 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	200	
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	6.7	J
86-73-7	Fluorene	270	
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	3600	E
120-12-7	Anthracene	430	
86-74-8	Carbazole	400	
84-74-2	Di-n-butylphthalate	35.	J
206-44-0	Fluoranthene	5500	E
129-00-0	Pyrene	2100	
85-68-7	Butylbenzylphthalate	14.	J
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1300	
117-81-7	Bis(2-ethylhexyl)phthalate	330	
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	1900	
207-08-9	Benzo(k)fluoranthene	610	
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	770	
53-70-3	Dibenzo(a,h)anthracene	170	J
191-24-2	Benzo(g,h,i)perylene	510	
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.

E5KR7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001

Sample wt/vol: 31.6 (g/mL) g Lab File ID: HBX24C01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	4.77	300	JN
02	934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	5.00	270	JN
03	2870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	5.16	180	JN
04		Unknown Benzene, 1-ethyl-2,3-dimethyl-	5.56	360	J
05		Unknown Undecanoic acid	9.02	280	J
06		Unknown 9H-Fluoren-9-ol	9.95	190	J
07	70-55-3	Benzenesulfonamide, 4-methyl-	10.12	200	JN
08		Unknown Tetradecanoic acid	10.75	240	J
09	486-25-9	9H-Fluoren-9-one	10.86	370	JN
10	234-41-3	Naphtho[1,2-b]thiophene	11.02	250	JN
11		Unknown Phenanthridine	11.44	170	J
12	949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	12.16	490	JN
13	2531-84-2	Phenanthrene, 2-methyl-	12.21	490	JN
14	832-69-9	Phenanthrene, 1-methyl-	12.29	230	JN
15	132545-36-9	1-Methyl-4-ethyl 2-phenylsuccinate	12.72	390	JN
16	84-65-1	9,10-Anthracenedione	12.77	530	JN
17		Unknown Hexadecanoic acid, 2-hydroxy-, methyl es	12.95	180	J
18		Unknown 1-Phenanthrenecarboxaldehyde, 1,2,3,4,4a	13.01	840	J
19	781-43-1	9,10-Dimethylanthracene	13.18	640	JN
20		Unknown Cyclopenta(def)phenanthrenone	13.32	490	J
21	6566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	13.55	460	JN
22	2381-21-7	Pyrene, 1-methyl-	14.17	170	JN
23	1705-85-7	Chrysene, 6-methyl-	16.16	210	JN
24		Unknown Squalene	17.08	220	J
25	192-97-2	Benzo[e]pyrene	17.87	730	JN
26		Unknown Estra-1,3,5(10),9(11)-tetraen-17-one, 3-	18.66	490	~~J~~ U
27		Unknown Ambreinolide	19.47	710	J
28		Unknown 1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyc	20.37	590	J
29	191-26-4	Dibenzo[def,mno]chrysene	21.87	430	JN
30		Unknown [2.2]Paracyclophane	23.74	210	J
	E966796[2]	Total Alkanes	N/A	6400	J

[2] EPA-designated Registry Number.

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR7DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001DL

Sample wt/vol: 31.6 (g/mL) g Lab File ID: HBX18C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1900	U
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl)ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1900	U
98-86-2	Acetophenone	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	410	JD
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	120	JD
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	1900	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	190	JD
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	110	JD

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR7DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001DL

Sample wt/vol: 31.6 (g/mL) g Lab File ID: HBX18C01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	190	JD
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
86-73-7	Fluorene	280	JD
7005-72-3	4-Chlorophenyl-phenylether	1900	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine[1]	1900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	1900	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	2600	D
120-12-7	Anthracene	390	JD
86-74-8	Carbazole	400	JD
84-74-2	Di-n-butylphthalate	75.	JD
206-44-0	Fluoranthene	3500	D
129-00-0	Pyrene	1900	D
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	1200	JD
218-01-9	Chrysene	1100	JD
117-81-7	Bis(2-ethylhexyl)phthalate	420	JD
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	1600	JD
207-08-9	Benzo(k)fluoranthene	480	JD
50-32-8	Benzo(a)pyrene	1000	JD
193-39-5	Indeno(1,2,3-cd)pyrene	980	JD
53-70-3	Dibenzo(a,h)anthracene	230	JD
191-24-2	Benzo(g,h,i)perylene	700	JD
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KR7DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001DL

Sample wt/vol: 31.6 (g/mL) g Lab File ID: HBX18C01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1H-Indene, 2-decyloctahydro-	19.42	880	JD
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	780	J

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002

Sample wt/vol: 31.8 (g/mL) g Lab File ID: HBX25C02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190 ~~7.2~~	~~J~~ U
108-95-2	Phenol	190	U
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	190	U
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	8.3	J
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
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	360	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	8.5	J
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	8.7	J

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002

Sample wt/vol: 31.8 (g/mL) g Lab File ID: HBX25C02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	8.4	J
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	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	360	U
85-01-8	Phenanthrene	88.	J
120-12-7	Anthracene	21.	J
86-74-8	Carbazole	15.	J
84-74-2	Di-n-butylphthalate	9.3	J
206-44-0	Fluoranthene	160	J
129-00-0	Pyrene	100	J
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	72.	J
218-01-9	Chrysene	74.	J
117-81-7	Bis(2-ethylhexyl)phthalate	140	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	33.	J
50-32-8	Benzo(a)pyrene	73.	J
193-39-5	Indeno(1,2,3-cd)pyrene	65.	J
53-70-3	Dibenzo(a,h)anthracene	16.	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.

E5KR8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002

Sample wt/vol: 31.8 (g/mL) g Lab File ID: HBX25C02

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	35693-99-3	1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	12.41	120	JN
02	60145-20-2	1,1'-Biphenyl, 2,2',3,3',5-pentachloro-	13.33	230	JN
03	38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	13.64	250	JN
04	73575-57-2	2,2',3,4,6'-Pentachloro-1,1'-biphenyl	13.90	77.	JN
05	52663-60-2	1,1'-Biphenyl, 2,2',3,3',6-pentachloro-	13.97	150	JN
06	31508-00-6	1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	14.09	240	JN
07	52712-04-6	1,1'-Biphenyl, 2,2',3,4,5,5'-hexachloro-	14.35	120	JN
08	31508-00-6	1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	14.41	180	JN
09	69782-90-7	1,1'-Biphenyl, 2,3,3',4,4',5'-hexachloro-	14.64	130	JN
10	59291-65-5	2,3',4,4',5',6-Hexachloro-1,1'-biphenyl	14.94	220	JN
11	61798-70-7	1,1'-Biphenyl, 2,2',3,3',4,6-Hexachloro-	15.23	76.	JN
12		Unknown 3-Hydroxypregn-5-en-20-one hydrazone	18.36	83.	J
13		Unknown Phthalic anhydride	18.63	380	~~J~~ U
14	41083-77-6	Cholestane-3,6-diol, (3.beta.,5.alpha.,6.alpha.,	21.18	320	JN
15		Unknown Silane, dimethylpentyloxyheptadecyloxy-	23.69	280	~~J~~ U
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1300	J

[2] EPA-designated Registry Number.

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354003

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HBX12C03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210 ~~16.~~	~~JB~~ U
108-95-2	Phenol	210	U
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	210	U
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	9.6	J
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	8.8	J
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	400	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	400	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354003

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HBX12C03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	8.6	J
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	10.	J
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	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	400	U
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	18.	J
86-74-8	Carbazole	17.	J
84-74-2	Di-n-butylphthalate	7.0	J
206-44-0	Fluoranthene	210	
129-00-0	Pyrene	160	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	76.	J
218-01-9	Chrysene	92.	J
117-81-7	Bis(2-ethylhexyl)phthalate	16.	J
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	150	J
207-08-9	Benzo(k)fluoranthene	42.	J
50-32-8	Benzo(a)pyrene	88.	J
193-39-5	Indeno(1,2,3-cd)pyrene	92.	J
53-70-3	Dibenzo(a,h)anthracene	25.	J
191-24-2	Benzo(g,h,i)perylene	48.	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.

E5KR9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354003

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HBX12C03

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	9.00	81.	JN
02	301-02-0	9-Octadecenamide, (Z)-	14.85	210	JN
03		Unknown Sulfurous acid, 2-propyl tridecyl ester	18.35	83.	J
04		Unknown Ninhydrin	18.62	400	~~J~~ U
05		Unknown Phthalic acid, monoethyl ester	23.66	350	~~JB~~ U
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	370	J

[2] EPA-designated Registry Number.

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004

Sample wt/vol: 31.5 (g/mL) g Lab File ID: HBX26C04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.6 Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	180 ~~8.0~~	~~JB~~ U
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	180	U
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	22.	J
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	14.	J
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	180	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	340	U
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	16.	J
99-09-2	3-Nitroaniline	340	U
83-32-9	Acenaphthene	79.	J

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004

Sample wt/vol: 31.5 (g/mL) g Lab File ID: HBX26C04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.6 Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	340	U
100-02-7	4-Nitrophenol	340	U
132-64-9	Dibenzofuran	51.	J
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	91.	J
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	340	U
534-52-1	4,6-Dinitro-2-methylphenol	340	U
86-30-6	N-Nitrosodiphenylamine[1]	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	700	
120-12-7	Anthracene	190	
86-74-8	Carbazole	90.	J
84-74-2	Di-n-butylphthalate	5.9	J
206-44-0	Fluoranthene	870	
129-00-0	Pyrene	460	
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	310	
218-01-9	Chrysene	230	
117-81-7	Bis(2-ethylhexyl)phthalate	42.	J
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	350	
207-08-9	Benzo(k)fluoranthene	98.	J
50-32-8	Benzo(a)pyrene	240	
193-39-5	Indeno(1,2,3-cd)pyrene	160	J
53-70-3	Dibenzo(a,h)anthracene	37.	J
191-24-2	Benzo(g,h,i)perylene	76.	J
58-90-2	2,3,4,6-Tetrachlorophenol	180	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004

Sample wt/vol: 31.5 (g/mL) g Lab File ID: HBX26C04

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.6 Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2H-Pyrrol-2-one, 1,5-dihydro-4-methoxy-	4.88	170	J
02		Unknown Benzene, 2,4-diisocyanato-1-methyl-	7.27	80.	J
03	112-04-9	Silane, trichlorooctadecyl-	11.90	140	JN
04	949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	12.20	100	JN
05	203-64-5	4H-Cyclopenta[def]phenanthrene	12.35	250	JN
06		Unknown 9H-Cyclopenta[a]pyrene	16.37	110	J
07	192-97-2	Benzo[e]pyrene	17.83	93.	JN
08		Unknown 1,2-Benzenedicarboxylic acid	18.64	380	~~JB~~ U
09		Unknown 1,4-Di(triethylsilyl)butadiyne	21.18	350	J
10		Unknown [2.2]Paracyclophane	23.69	250	~~J~~ U
11		Unknown Acetamide, N-[5-bromo-(1,1'-biphenyl)-2-	24.26	80.	J
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	1800	J

[2] EPA-designated Registry Number.

CMC 9/16/11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HBX13C05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
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	210	U
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	270	
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	100	J
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	15.	J
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	17.	J
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HBX13C05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	7.1	J
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	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	410	U
85-01-8	Phenanthrene	59.	J
120-12-7	Anthracene	15.	J
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	39.	J
206-44-0	Fluoranthene	70.	J
129-00-0	Pyrene	61.	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	37.	J
218-01-9	Chrysene	40.	J
117-81-7	Bis(2-ethylhexyl)phthalate	520	
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	51.	J
207-08-9	Benzo(k)fluoranthene	19.	J
50-32-8	Benzo(a)pyrene	39.	J
193-39-5	Indeno(1,2,3-cd)pyrene	39.	J
53-70-3	Dibenzo(a,h)anthracene	11.	J
191-24-2	Benzo(g,h,i)perylene	18.	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.

E5KS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HBX13C05

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Formic acid hydrazide	4.08	90.	J
02	526-73-8	Benzene, 1,2,3-trimethyl-	4.12	300	JN
03	526-73-8	Benzene, 1,2,3-trimethyl-	4.31	390	JN
04	526-73-8	Benzene, 1,2,3-trimethyl-	4.53	470	JN
05		Unknown Benzene, 2-propenyl-	4.65	89.	J
06	1074-43-7	Benzene, 1-methyl-3-propyl-	4.73	400	JN
07	1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	4.77	610	JN
08	933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	4.92	95.	JN
09	934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	5.00	350	JN
10		Unknown Benzene, (1-ethylpropyl)-	5.12	160	J
11	2870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	5.16	170	JN
12	1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	5.26	95.	JN
13	934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	5.29	140	JN
14		Unknown Benzene, 1-ethyl-2,3-dimethyl-	5.56	330	J
15	581-42-0	Naphthalene, 2,6-dimethyl-	7.87	120	JN
16	581-42-0	Naphthalene, 2,6-dimethyl-	7.98	130	JN
17	85-41-6	Phthalimide	8.35	120	JN
18	544-63-8	Tetradecanoic acid	10.75	350	JN
19		Unknown Isophthalic acid, phenyl undecyl ester	13.18	97.	J
20	1000333-19-5	cis-9-Hexadecenoic acid	13.64	1100	JN
21		Unknown Benzene, 1,1'-(diazomethylene)bis-	14.27	450	J
22		Unknown Phthalic acid, 4-methoxyphenyl 3-methylp	14.84	230	J
23	103-23-1	Hexanedioic acid, bis(2-ethylhexyl) ester	14.94	260	JN
24		Unknown Spiro[isobenzofuran-1(3H)-one-3,2'-tetra	17.36	340	J
25		Unknown 2,6-Diphthalimidopyridine	18.63	320	~~J~~ U
26		Unknown Tricyclo[7.3.0.0(3,8)]dodec-1(9)-en-12-c	19.10	84.	J
27		Unknown Phthalic anhydride	23.67	270	~~J~~ U
28		Unknown Atropine	24.59	140	J
29					
30					
	E966796[2]	Total Alkanes	N/A	1300	J

[2] EPA-designated Registry Number.

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006

Sample wt/vol: 30.8 (g/mL) g Lab File ID: HBX27C06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.7 Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	180	U
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	180	U
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	9.4	J
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	7.2	J
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	180	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	23.	J
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	29.	J

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006

Sample wt/vol: 30.8 (g/mL) g Lab File ID: HBX27C06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.7 Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	11.	J
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	24.	J
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine[1]	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	670	
120-12-7	Anthracene	88.	J
86-74-8	Carbazole	43.	J
84-74-2	Di-n-butylphthalate	9.1	J
206-44-0	Fluoranthene	2200	
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	730	
218-01-9	Chrysene	750	
117-81-7	Bis(2-ethylhexyl)phthalate	90.	J
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	400	
50-32-8	Benzo(a)pyrene	760	
193-39-5	Indeno(1,2,3-cd)pyrene	600	
53-70-3	Dibenzo(a,h)anthracene	120	J
191-24-2	Benzo(g,h,i)perylene	400	
58-90-2	2,3,4,6-Tetrachlorophenol	180	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006

Sample wt/vol: 30.8 (g/mL) g Lab File ID: HBX27C06

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.7 Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Acetyl-5-norbornene	5.79	120	J
02		Unknown Nonane, 2,8-dimethyl-4-methylene-	6.27	160	J
03		Unknown 1-(3-Methylbutyl)-2,3,6-trimethylbenzene	8.24	97.	J
04		Unknown Octadecane, 1-(ethenyloxy)-	9.06	110	J
05		Unknown 1,1'-Biphenyl, 3,4-diethyl-	11.44	110	J
06	2531-84-2	Phenanthrene, 2-methyl-	12.16	87.	JN
07	832-69-9	Phenanthrene, 1-methyl-	12.21	140	JN
08	203-64-5	4H-Cyclopenta[def]phenanthrene	12.35	160	JN
09	84-65-1	9,10-Anthracenedione	12.76	130	JN
10	3674-66-6	Phenanthrene, 2,5-dimethyl-	13.18	110	JN
11	33543-31-6	Fluoranthene, 2-methyl-	14.32	170	JN
12	2381-21-7	Pyrene, 1-methyl-	14.42	93.	JN
13		Unknown Benzo[c]phenanthrene	15.70	89.	J
14	192-97-2	Benzo[e]pyrene	17.47	100	JN
15	192-97-2	Benzo[e]pyrene	17.83	450	JN
16		Unknown 1,9,12-Octadecatriene, 1-methoxy-	18.37	140	J
17		Unknown Phthalic anhydride	18.64	870	~~J~~ U
18		Unknown Sulfurous acid, butyl dodecyl ester	19.30	200	J
19		Unknown Dibenzo[def,mno]chrysene	20.61	130	J
20		Unknown 1H-Isoindole-1,3(2H)-dione, 2-(2-propyny	23.70	700	~~J~~ U
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	6700	J

[2] EPA-designated Registry Number.

cm 9/16/11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007

Sample wt/vol: 31.6 (g/mL) g Lab File ID: HBX14C07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200 ~~34.~~	~~UB~~ U
108-95-2	Phenol	200	U
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	200	U
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	14.	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	9.5	J
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	400	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	21.	J
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	6.2	J

CM 9/16/11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007

Sample wt/vol: 31.6 (g/mL) g Lab File ID: HBX14C07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	15.	J
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	26.	J
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	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	400	U
85-01-8	Phenanthrene	310	
120-12-7	Anthracene	29.	J
86-74-8	Carbazole	26.	J
84-74-2	Di-n-butylphthalate	6.9	J
206-44-0	Fluoranthene	370	
129-00-0	Pyrene	230	
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	98.	J
218-01-9	Chrysene	130	J
117-81-7	Bis(2-ethylhexyl)phthalate	47.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	150	J
207-08-9	Benzo(k)fluoranthene	52.	J
50-32-8	Benzo(a)pyrene	100	J
193-39-5	Indeno(1,2,3-cd)pyrene	96.	J
53-70-3	Dibenzo(a,h)anthracene	23.	J
191-24-2	Benzo(g,h,i)perylene	51.	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.

E5KS3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007

Sample wt/vol: 31.6 (g/mL) g Lab File ID: HBX14C07

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	143-07-7	Dodecanoic acid	9.02	290	JN
02	544-63-8	Tetradecanoic acid	10.75	99.	JN
03		Unknown Benzofuran-2-one, 3-methyl-3-aza-2,3-dih	16.54	160	J
04		Unknown Dithianone	18.63	740	~~J~~ U
05		Unknown Phthalic acid, monoethyl ester	23.69	780	~~JB~~ U
06					
07					
08					
09					
10					
11					
12					
13					
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28					
29					
30					
	E966796[2]	Total Alkanes	N/A	680	J

[2] EPA-designated Registry Number.

on 9/16

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354008

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HBX15C08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
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	190	U
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	190	U
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	360	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	360	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354008

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HBX15C08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	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	360	U
85-01-8	Phenanthrene	21.	J
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	6.2	J
206-44-0	Fluoranthene	23.	J
129-00-0	Pyrene	21.	J
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	9.5	J
218-01-9	Chrysene	28.	J
117-81-7	Bis(2-ethylhexyl)phthalate	31.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	20.	J
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	11.	J
193-39-5	Indeno(1,2,3-cd)pyrene	8.8	J
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	11.	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.

E5KS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354008

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HBX15C08

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 8-Oxabicyclo[5.1.0]octane	6.27	160	J
02		Unknown 1-(3-Methylbutyl)-2,3,6-trimethylbenzene	8.23	95.	J
03		Unknown Oxalic acid, allyl octadecyl ester	9.06	120	J
04		Unknown 2-Butanone, 4-(2,3-epoxy-2,6,6-trimethyl	11.43	89.	J
05		Unknown 9,10-Dimethylanthracene	13.18	85.	J
06	1000309-17-9	Sulfurous acid, butyl dodecyl ester	16.93	130	JN
07		Unknown 1H-Isoindole-1,3(2H)-dione, 2-(2-propyny	18.63	710	~~J~~ U
08		Unknown 3,5-Hexadien-2-one, 5-methyl-6-(4-nitrop	19.16	75.	J
09		Unknown Fumaric acid, 2-methylpentyl tetradecyl	23.44	81.	J
10		Unknown Phthalic anhydride	23.69	720	~~J~~ U
11		Unknown Tropine, 2,6-dichlorophenylacetate	24.59	98.	J
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	8700	J

[2] EPA-designated Registry Number.

9/16/11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009

Sample wt/vol: 31.0 (g/mL) g Lab File ID: HBX28C09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210 ~~7.9~~	~~JB~~ J
108-95-2	Phenol	210	U
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	210	U
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	8.0	J
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	8.2	J
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	400	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	7.7	J
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	210	U

CM 9/16/11

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009

Sample wt/vol: 31.0 (g/mL) g Lab File ID: HBX28C09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	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	400	U
85-01-8	Phenanthrene	50.	J
120-12-7	Anthracene	11.	J
86-74-8	Carbazole	9.5	J
84-74-2	Di-n-butylphthalate	7.6	J
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	82.	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	65.	J
218-01-9	Chrysene	85.	J
117-81-7	Bis(2-ethylhexyl)phthalate	5500	E
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	34.	J
50-32-8	Benzo(a)pyrene	69.	J
193-39-5	Indeno(1,2,3-cd)pyrene	61.	J
53-70-3	Dibenzo(a,h)anthracene	14.	J
191-24-2	Benzo(g,h,i)perylene	44.	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.

E5KS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009

Sample wt/vol: 31.0 (g/mL) g Lab File ID: HBX28C09

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	35693-99-3	1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	12.41	130	JN
02	60145-20-2	1,1'-Biphenyl, 2,2',3,3',5-pentachloro-	13.33	280	JN
03	38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	13.64	290	JN
04	38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	13.70	82.	JN
05	37680-73-2	1,1'-Biphenyl, 2,2',4,5,5'-pentachloro-	13.90	110	JN
06	68194-07-0	2,2',3,4',5-Pentachloro-1,1'-biphenyl	13.97	170	JN
07	52663-61-3	1,1'-Biphenyl, 2,2',3,5,5'-pentachloro-	14.09	290	JN
08	61798-70-7	1,1'-Biphenyl, 2,2',3,3',4,6-Hexachloro-	14.35	140	JN
09	31508-00-6	1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	14.41	220	JN
10	74472-45-0	2,3,3',4',5',6-Hexachloro-1,1'-biphenyl	14.64	160	JN
11	301-02-0	9-Octadecenamide, (Z)-	14.85	150	JN
12	74472-46-1	2,3,3',5,5',6-Hexachloro-1,1'-biphenyl	14.94	270	JN
13	38380-08-4	1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-	15.23	120	JN
14		Unknown Dithianone	18.64	640	~~J~~ U
15		Unknown Phosphine, methyl-(2,4,6-triisopropylphe	21.19	290	J
16		Unknown Phthalic anhydride	23.71	470	~~J~~ U
17		Unknown Testosterone	24.63	150	J
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2200	J

[2] EPA-designated Registry Number.

OK 9/16

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS5DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009DL

Sample wt/vol: 31.0 (g/mL) g Lab File ID: HBX22C09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1000	U
108-95-2	Phenol	1000	U
111-44-4	Bis(2-chloroethyl)ether	1000	U
95-57-8	2-Chlorophenol	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1000	U
98-86-2	Acetophenone	1000	U
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	Bis(2-chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
105-60-2	Caprolactam	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	1000	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
208-96-8	Acenaphthylene	1000	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	1000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS5DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009DL

Sample wt/vol: 31.0 (g/mL) g Lab File ID: HBX22C09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	1000	U
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
86-73-7	Fluorene	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine[1]	1000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
1912-24-9	Atrazine	1000	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	47.	JD
120-12-7	Anthracene	1000	U
86-74-8	Carbazole	1000	U
84-74-2	Di-n-butylphthalate	1000	U
206-44-0	Fluoranthene	120	JD
129-00-0	Pyrene	83.	JD
85-68-7	Butylbenzylphthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)anthracene	73.	JD
218-01-9	Chrysene	65.	JD
117-81-7	Bis(2-ethylhexyl)phthalate	3600	D
117-84-0	Di-n-octylphthalate	1000	U
205-99-2	Benzo(b)fluoranthene	100	JD
207-08-9	Benzo(k)fluoranthene	33.	JD
50-32-8	Benzo(a)pyrene	68.	JD
193-39-5	Indeno(1,2,3-cd)pyrene	69.	JD
53-70-3	Dibenzo(a,h)anthracene	1000	U
191-24-2	Benzo(g,h,i)perylene	46.	JD
58-90-2	2,3,4,6-Tetrachlorophenol	1000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS5DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009DL

Sample wt/vol: 31.0 (g/mL) g Lab File ID: HBX22C09

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/17/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Phthalic anhydride	18.62	690	~~JD~~ U
02		Unknown b-Homomorphinan-7-one,5,6,8,14-tetradehy	23.66	620	~~JD~~ U
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.

9/16/11

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX07C04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	8.6	J
108-95-2	Phenol	200	U
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	200	U
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	200	U
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	380	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	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX07C04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 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	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	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	380	U
85-01-8	Phenanthrene	10.	J
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	6.6	J
206-44-0	Fluoranthene	24.	J
129-00-0	Pyrene	19.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	14.	J
218-01-9	Chrysene	14.	J
117-81-7	Bis(2-ethylhexyl)phthalate	1000 ~~24.~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	21.	J
207-08-9	Benzo(k)fluoranthene	7.1	J
50-32-8	Benzo(a)pyrene	14.	J
193-39-5	Indeno(1,2,3-cd)pyrene	14.	J
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	9.7	J
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

CM 9/16/11

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E5KS6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX07C04

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown DL-3-Methyl-2-butanol, acetate	4.38	230	~~J~~ U
02		Unknown 6-Isopropylquinoline	6.79	84.	~~JB~~ U
03	57-10-3	n-Hexadecanoic acid	12.35	83.	JN
04		Unknown 1-Formyl-2,2-dimethyl-3-trans-(3-methyl-	15.09	98.	J
05		Unknown 2-Isopropenyl-4a,8-dimethyl-1,2,3,4,4a,5	16.05	200	J
06		Unknown 3,7,11-Tridecatrienenitrile, 4,8,12-trim	17.05	79.	J
07	23192-42-9	7-Hexadecen-1-ol, acetate, (Z)-	17.20	120	JN
08		Unknown 1-Octacosanol	17.71	140	J
09		Unknown Phthalic acid, monoethyl ester	18.63	840	~~JB~~ U
10		Unknown 3-Cyclohexene-1-carboxaldehyde, 2,4,6-tr	22.53	93.	J
11		Unknown 7,9-Dimethyl-1,4-dioxa-7,9-diazacyclound	23.42	79.	J
12		Unknown Phthalic anhydride	23.69	1100	~~J~~ U
13		Unknown 4,6-Dimethyl-2-pyrimidone	24.58	89.	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1400	J

[2] EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX08M05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	7.3	J
108-95-2	Phenol	820	
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	840	
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	890	
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	200	U
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	880	
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	380	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	380	U
83-32-9	Acenaphthene	950	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX08M05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

GPC Cleanup: (Y/N) Y pH: 7.4 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	1400	
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	920	
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	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	840	
85-01-8	Phenanthrene	29.	J
120-12-7	Anthracene	7.4	J
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	53.	J
129-00-0	Pyrene	890	
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	25.	J
218-01-9	Chrysene	24.	J
117-81-7	Bis(2-ethylhexyl)phthalate	1000 ~~14.~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	33.	J
207-08-9	Benzo(k)fluoranthene	9.3	J
50-32-8	Benzo(a)pyrene	24.	J
193-39-5	Indeno(1,2,3-cd)pyrene	20.	J
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	13.	J
58-90-2	2,3,4,6-Tetrachlorophenol	7.2	J

[1] Cannot be separated from Diphenylamine

CM 9/16/11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBZ04M06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/18/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	770	
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	790	
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	900	
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	200	U
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	780	
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	380	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	380	U
83-32-9	Acenaphthene	940	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBZ04M06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/18/2011

GPC Cleanup: (Y/N) Y pH: 7.4 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	1500	
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	920	
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	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	710	
85-01-8	Phenanthrene	27.	J
120-12-7	Anthracene	7.1	J
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	50.	J
129-00-0	Pyrene	870	
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	25.	J
218-01-9	Chrysene	22.	J
117-81-7	Bis(2-ethylhexyl)phthalate	1000 ~~12.~~	~~JB~~ U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	34.	J
207-08-9	Benzo(k)fluoranthene	14.	J
50-32-8	Benzo(a)pyrene	26.	J
193-39-5	Indeno(1,2,3-cd)pyrene	30.	J
53-70-3	Dibenzo(a,h)anthracene	13.	J
191-24-2	Benzo(g,h,i)perylene	22.	J
58-90-2	2,3,4,6-Tetrachlorophenol	8.1	J

[1] Cannot be separated from Diphenylamine

9/16/11

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232203

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX03BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

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.

SBLK03

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232203

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX03BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

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	14.	J
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.

SBLK03

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232203

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX03BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/11/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

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		Unknown Acetic acid, 1-methylethyl ester	4.38	150	J
02		Unknown 6-Isopropylquinoline	6.79	72.	J
03	301-02-0	9-Octadecenamide, (Z)-	14.84	82.	JN
04		Unknown Phthalic acid, monoethyl ester	18.62	730	J
05		Unknown [2.2]Paracyclophane	23.67	900	J
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.

SBLK32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232532

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX11BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

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	5.3	J
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.

SBLK32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232532

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX11BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

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.

SBLK32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232532

Sample wt/vol: 30.0 (g/mL) g Lab File ID: HBX11BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2011

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		Unknown Acetic acid, 1-methylethyl ester	4.38	87.	J
02		Unknown Phthalic acid, 2,7-dimethyloct-7-en-5-yn	16.54	93.	J
03		Unknown 1,2-Benzenedicarboxylic acid	18.62	390	J
04		Unknown Phthalic acid, monoethyl ester	23.65	390	J
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.

2P - FORM II PEST-2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

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	66	71	70	76			0
02	PBLKS2	52	55	67	74			0
03	PLCSS1	76	83	76	84			0
04	PLCSS2	71	75	80	89			0
05	E5KR4	50	63	45	49			0
06	E5KR5	47	59	42	44			0
07	E5KR6	57	66	49	55			0
08	E5KR7	53	61	52	51			0
09	E5KR7DL	62	62	107	104			0
10	E5KR8	56	63	44	51			0
11	E5KR8DL	70	67	84	77			0
12	E5KR9	52	56	38	48			0
13	E5KS0	64	68	51	56			0
14	E5KS1	57	66	37	45			0
15	E5KS2	55	65	53	63			0
16	E5KS3	63	66	51	54			0
17	E5KS4	63	72	44	54			0
18	E5KS5	61	67	48	55			0
19	E5KS5DL	76	74	90	88			0
20	E5KS6	58	65	48	50			0
21	E5KS6MS	52	59	47	48			0
22	E5KS6MSD	52	58	44	49			0
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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix Spike - EPA Sample No.: E5KS6

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)	19.	0.0 ~~0.035~~	11.	58	46-127
Heptachlor	19.	0.0 ~~0.061~~	11.	59	35-130
Aldrin	19.	0.0 ~~0.24~~	12.	61	34-132
Dieldrin	39.	0.0 ~~2.0~~	26.	62	31-134
Endrin	39.	0.0 ~~0.57~~	32.	81	42-139
4,4'-DDT	39.	9.2	31.	56	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	19.	12.	62	6	0-50	46-127
Heptachlor	19.	12.	62	5	0-31	35-130
Aldrin	19.	12.	63	5	0-43	34-132
Dieldrin	39.	27.	66	5	0-38	31-134
Endrin	39.	28.	70	14	0-45	42-139
4,4'-DDT	39.	32.	59	5	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

cm 9/19/11

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix Spike - EPA Sample No.: E5KS6

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)	19.	0.0 ~~0.11~~	13.	67	46-127
Heptachlor	19.	0	13.	68	35-130
Aldrin	19.	0	13.	65	34-132
Dieldrin	39.	0.0 ~~0.37~~	27.	69	31-134
Endrin	39.	0.0 ~~1.7~~	29.	70	42-139
4,4'-DDT	39.	11.	34.	61	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	19.	14.	72	7	0-50	46-127
Heptachlor	19.	14.	72	5	0-31	35-130
Aldrin	19.	13.	69	5	0-43	34-132
Dieldrin	39.	28.	72	4	0-38	31-134
Endrin	39.	30.	73	5	0-45	42-139
4,4'-DDT	39.	36.	66	8	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ar 9/19/14

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab Sample ID: 232205 LCS Lot No.: _____

Date Extracted: 08/11/2011 Date Analyzed (1): 08/26/2011

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	1.6	95	50-120
Heptachlor epoxide	1.7	1.7	103	50-150
Dieldrin	3.3	3.4	102	30-130
4,4'-DDE	3.3	3.0	90	50-150
Endrin	3.3	3.1	93	50-120
Endosulfan sulfate	3.3	3.3	98	50-120
gamma-Chlordane	1.7	1.6	99	30-130

Instrument ID (2): GCE31 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/26/2011

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.4	87	50-120
Heptachlor epoxide	1.7	1.5	89	50-150
Dieldrin	3.3	2.7	81	30-130
4,4'-DDE	3.3	2.9	87	50-150
Endrin	3.3	3.8	114	50-120
Endosulfan sulfate	3.3	3.0	89	50-120
gamma-Chlordane	1.7	1.4	84	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab Sample ID: 232537 LCS Lot No.: _____

Date Extracted: 08/13/2011 Date Analyzed (1): 08/26/2011

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	1.5	93		50-120
Heptachlor epoxide	1.7	1.6	98		50-150
Dieldrin	3.3	3.5	105		30-130
4,4'-DDE	3.3	3.0	91		50-150
Endrin	3.3	3.6	109		50-120
Endosulfan sulfate	3.3	3.4	101		50-120
gamma-Chlordane	1.7	1.7	102		30-130

Instrument ID (2): GCE31 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/26/2011

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC	#	QC LIMITS
gamma-BHC (Lindane)	1.7	1.3	79		50-120
Heptachlor epoxide	1.7	1.5	87		50-150
Dieldrin	3.3	2.6	79		30-130
4,4'-DDE	3.3	2.8	84		50-150
Endrin	3.3	3.8	114		50-120
Endosulfan sulfate	3.3	3.1	92		50-120
gamma-Chlordane	1.7	1.5	87		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.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab File ID: 31110826A018,31110826B018 Lab Sample ID: 232204

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 08/11/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 08/26/2011 Date Analyzed (2): 08/26/2011

Time Analyzed (1): 08:27 Time Analyzed (2): 08:57

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	PLCSS1	232205	08/26/2011	08/26/2011
02	E5KR4	1122263001	08/26/2011	08/26/2011
03	E5KR5	1122263002	08/26/2011	08/26/2011
04	E5KR6	1122263003	08/26/2011	08/26/2011
05	E5KS6	1122263004	08/26/2011	08/26/2011
06	E5KS6MS	1122263005	08/26/2011	08/26/2011
07	E5KS6MSD	1122263006	08/26/2011	08/26/2011
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COMMENTS: _____

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: SDG No.: E5KR4

Lab File ID: 31110826A020,31110826B020 Lab Sample ID: 232536

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 08/13/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 08/26/2011 Date Analyzed (2): 08/26/2011

Time Analyzed (1): 09:27 Time Analyzed (2): 09:58

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	232537	08/26/2011	08/26/2011
02	E5KR7	1122354001	08/26/2011	08/26/2011
03	E5KR7DL	1122354001DL	08/27/2011	08/27/2011
04	E5KR8	1122354002	08/26/2011	08/26/2011
05	E5KR8DL	1122354002DL	08/27/2011	08/27/2011
06	E5KR9	1122354003	08/26/2011	08/26/2011
07	E5KS0	1122354004	08/26/2011	08/26/2011
08	E5KS1	1122354005	08/26/2011	08/26/2011
09	E5KS2	1122354006	08/26/2011	08/26/2011
10	E5KS3	1122354007	08/26/2011	08/26/2011
11	E5KS4	1122354008	08/26/2011	08/26/2011
12	E5KS5	1122354009	08/26/2011	08/26/2011
13	E5KS5DL	1122354009DL	08/27/2011	08/27/2011
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COMMENTS:

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/26/2011 08/26/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.56 DCB: 21.68

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	31110826A004	08/26/2011	01:21	7.56	21.69
02	PEM11	31110826A005	08/26/2011	01:51	7.56	21.69
03	TOXAPH111	31110826A006	08/26/2011	02:22	7.56	21.68
04	TOXAPH211	31110826A007	08/26/2011	02:52	7.55	21.68
05	TOXAPH311	31110826A008	08/26/2011	03:22	7.55	21.68
06	TOXAPH411	31110826A009	08/26/2011	03:53	7.55	21.68
07	TOXAPH511	31110826A010	08/26/2011	04:23	7.55	21.68
08	INDC111	31110826A011	08/26/2011	04:54	7.55	21.68
09	INDC211	31110826A012	08/26/2011	05:24	7.55	21.68
10	INDC311	31110826A013	08/26/2011	05:54	7.55	21.68
11	INDC411	31110826A014	08/26/2011	06:25	7.56	21.69
12	INDC511	31110826A015	08/26/2011	06:56	7.56	21.69
13	PIBLK21	31110826A016	08/26/2011	07:26	7.56	21.69
14	PEM21	31110826A017	08/26/2011	07:56	7.57	21.69
15	PBLKS1	31110826A018	08/26/2011	08:27	7.56	21.69
16	PLCSS1	31110826A019	08/26/2011	08:57	7.56	21.69
17	PBLKS2	31110826A020	08/26/2011	09:27	7.56	21.69
18	PLCSS2	31110826A021	08/26/2011	09:58	7.56	21.69
19	ZZZZZ		08/26/2011	10:28		
20	PIBLK31	31110826A023	08/26/2011	10:58	7.56	21.69
21	INDC331	31110826A024	08/26/2011	11:29	7.56	21.69
22	ZZZZZ		08/26/2011	11:59		
23	ZZZZZ		08/26/2011	12:29		
24	E5KR4	31110826A027	08/26/2011	13:00	7.56	21.68
25	E5KR5	31110826A028	08/26/2011	13:30	7.56	21.68
26	E5KR6	31110826A029	08/26/2011	14:01	7.56	21.68
27	E5KS6	31110826A030	08/26/2011	14:31	7.56	21.68
28	E5KS6MS	31110826A031	08/26/2011	15:01	7.56	21.68
29	E5KS6MSD	31110826A032	08/26/2011	15:32	7.56	21.68
30	E5KR7	31110826A033	08/26/2011	16:02	7.55	21.68
31	E5KR8	31110826A034	08/26/2011	16:33	7.55	21.67
32	E5KR9	31110826A035	08/26/2011	17:03	7.55	21.67

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/26/2011 08/26/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.56 DCB: 21.68

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KS0	31110826A036	08/26/2011	17:33	7.55	21.67
02	E5KS1	31110826A037	08/26/2011	18:04	7.56	21.68
03	E5KS2	31110826A038	08/26/2011	18:34	7.55	21.68
04	E5KS3	31110826A039	08/26/2011	19:04	7.56	21.68
05	E5KS4	31110826A040	08/26/2011	19:35	7.56	21.68
06	E5KS5	31110826A041	08/26/2011	20:05	7.56	21.68
07	ZZZZZ		08/26/2011	20:36		
08	ZZZZZ		08/26/2011	21:06		
09	ZZZZZ		08/26/2011	21:37		
10	PIBLK41	31110826A045	08/26/2011	22:07	7.56	21.68
11	PEM41	31110826A046	08/26/2011	22:38	7.56	21.68
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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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/27/2011 08/27/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.55 DCB: 21.67

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC61	31110827A004	08/27/2011	11:16	7.57	21.69
02	PEM61	31110827A005	08/27/2011	11:46	7.56	21.68
03	TOXAPH161	31110827A006	08/27/2011	12:17	7.56	21.68
04	TOXAPH261	31110827A007	08/27/2011	12:47	7.56	21.68
05	TOXAPH361	31110827A008	08/27/2011	13:17	7.56	21.68
06	TOXAPH461	31110827A009	08/27/2011	13:48	7.56	21.68
07	TOXAPH561	31110827A010	08/27/2011	14:18	7.56	21.68
08	INDC161	31110827A011	08/27/2011	14:49	7.56	21.68
09	INDC261	31110827A012	08/27/2011	15:19	7.55	21.67
10	INDC361	31110827A013	08/27/2011	15:50	7.55	21.67
11	INDC461	31110827A014	08/27/2011	16:20	7.55	21.67
12	INDC561	31110827A015	08/27/2011	16:51	7.55	21.67
13	PIBLK71	31110827A016	08/27/2011	17:21	7.55	21.67
14	PEM71	31110827A017	08/27/2011	17:52	7.55	21.67
15	E5KR7DL	31110827A018	08/27/2011	18:22	7.55	21.67
16	E5KR8DL	31110827A019	08/27/2011	18:52	7.55	21.67
17	E5KS5DL	31110827A020	08/27/2011	19:23	7.55	21.67
18	ZZZZZ		08/27/2011	19:53		
19	PIBLK81	31110827A022	08/27/2011	20:24	7.55	21.67
20	INDC381	31110827A023	08/27/2011	20:54	7.55	21.67
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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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/26/2011 08/26/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.29 DCB: 23.43

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC12	31110826B004	08/26/2011	01:51	8.29	23.43
02	PEM12	31110826B005	08/26/2011	02:22	8.28	23.43
03	TOXAPH112	31110826B006	08/26/2011	02:52	8.28	23.43
04	TOXAPH212	31110826B007	08/26/2011	03:22	8.28	23.43
05	TOXAPH312	31110826B008	08/26/2011	03:53	8.28	23.43
06	TOXAPH412	31110826B009	08/26/2011	04:23	8.28	23.43
07	TOXAPH512	31110826B010	08/26/2011	04:54	8.28	23.43
08	INDC112	31110826B011	08/26/2011	05:24	8.28	23.43
09	INDC212	31110826B012	08/26/2011	05:54	8.28	23.43
10	INDC312	31110826B013	08/26/2011	06:25	8.28	23.44
11	INDC412	31110826B014	08/26/2011	06:56	8.29	23.44
12	INDC512	31110826B015	08/26/2011	07:26	8.29	23.44
13	PIBLK22	31110826B016	08/26/2011	07:56	8.29	23.44
14	PEM22	31110826B017	08/26/2011	08:27	8.29	23.44
15	PBLKS1	31110826B018	08/26/2011	08:57	8.29	23.44
16	PLCSS1	31110826B019	08/26/2011	09:27	8.29	23.43
17	PBLKS2	31110826B020	08/26/2011	09:58	8.29	23.44
18	PLCSS2	31110826B021	08/26/2011	10:28	8.29	23.44
19	ZZZZZ		08/26/2011	10:58		
20	PIBLK32	31110826B023	08/26/2011	11:29	8.29	23.43
21	INDC332	31110826B024	08/26/2011	11:59	8.29	23.43
22	ZZZZZ		08/26/2011	12:29		
23	ZZZZZ		08/26/2011	13:00		
24	E5KR4	31110826B027	08/26/2011	13:30	8.29	23.43
25	E5KR5	31110826B028	08/26/2011	14:01	8.29	23.43
26	E5KR6	31110826B029	08/26/2011	14:31	8.28	23.42
27	E5KS6	31110826B030	08/26/2011	15:01	8.28	23.42
28	E5KS6MS	31110826B031	08/26/2011	15:32	8.28	23.42
29	E5KS6MSD	31110826B032	08/26/2011	16:02	8.28	23.42
30	E5KR7	31110826B033	08/26/2011	16:33	8.27	23.42
31	E5KR8	31110826B034	08/26/2011	17:03	8.27	23.42
32	E5KR9	31110826B035	08/26/2011	17:33	8.28	23.42

	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/26/2011 08/26/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.29 DCB: 23.43

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KS0	31110826B036	08/26/2011	18:04	8.28	23.42
02	E5KS1	31110826B037	08/26/2011	18:34	8.28	23.42
03	E5KS2	31110826B038	08/26/2011	19:04	8.28	23.43
04	E5KS3	31110826B039	08/26/2011	19:35	8.28	23.42
05	E5KS4	31110826B040	08/26/2011	20:05	8.28	23.42
06	E5KS5	31110826B041	08/26/2011	20:36	8.28	23.42
07	ZZZZZ		08/26/2011	21:06		
08	ZZZZZ		08/26/2011	21:37		
09	ZZZZZ		08/26/2011	22:07		
10	PIBLK42	31110826B045	08/26/2011	22:38	8.28	23.42
11	PEM42	31110826B046	08/26/2011	23:08	8.28	23.42
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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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/27/2011 08/27/2011

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.27 DCB: 23.40

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC62	31110827B004	08/27/2011	11:46	8.28	23.42
02	PEM62	31110827B005	08/27/2011	12:17	8.28	23.42
03	TOXAPH162	31110827B006	08/27/2011	12:47	8.28	23.42
04	TOXAPH262	31110827B007	08/27/2011	13:17	8.27	23.41
05	TOXAPH362	31110827B008	08/27/2011	13:48	8.27	23.41
06	TOXAPH462	31110827B009	08/27/2011	14:18	8.27	23.41
07	TOXAPH562	31110827B010	08/27/2011	14:49	8.27	23.41
08	INDC162	31110827B011	08/27/2011	15:19	8.27	23.41
09	INDC262	31110827B012	08/27/2011	15:50	8.27	23.41
10	INDC362	31110827B013	08/27/2011	16:20	8.27	23.40
11	INDC462	31110827B014	08/27/2011	16:51	8.27	23.40
12	INDC562	31110827B015	08/27/2011	17:21	8.27	23.40
13	PIBLK72	31110827B016	08/27/2011	17:52	8.27	23.40
14	PEM72	31110827B017	08/27/2011	18:22	8.27	23.40
15	E5KR7DL	31110827B018	08/27/2011	18:52	8.27	23.41
16	E5KR8DL	31110827B019	08/27/2011	19:23	8.27	23.40
17	E5KS5DL	31110827B020	08/27/2011	19:53	8.27	23.40
18	ZZZZZ		08/27/2011	20:24		
19	PIBLK82	31110827B022	08/27/2011	20:54	8.27	23.40
20	INDC382	31110827B023	08/27/2011	21:25	8.27	23.41
21						
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32						

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.

E5KR4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A027,31110826B027

% Moisture: 10. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9 ~~0.13~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9 ~~0.064~~	~~JP~~ U
1024-57-3	Heptachlor epoxide	1.9 ~~0.30~~	~~JP~~ U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7 ~~0.55~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	3.7 ~~0.035~~	~~JP~~ U
72-43-5	Methoxychlor	19 ~~0.15~~	~~JP~~ U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9 ~~0.036~~	~~JP~~ U
8001-35-2	Toxaphene	190	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A028,31110826B028

% Moisture: 13. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	0.12 ~~0.12~~	~~JB~~
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 ~~0.095~~	~~JP~~ 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 ~~0.056~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	3.8 ~~0.040~~	~~JBP~~ U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

Cr grade

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A029,31110826B029

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
0.55 319-86-8	delta-BHC	2.2 ~~0.41~~	~~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
0.55 1024-57-3	Heptachlor epoxide	2.2 ~~0.040~~	~~JP~~ U
959-98-8	Endosulfan I	2.2	U
1.05 60-57-1	Dieldrin	4.2 ~~0.61~~	~~JP~~ U
72-55-9	4,4'-DDE	21.	
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
1.06 72-54-8	4,4'-DDD	4.2 ~~0.71~~	~~JP~~ U
1.06 1031-07-8	Endosulfan sulfate	1.4	JP
50-29-3	4,4'-DDT	12.	
22 72-43-5	Methoxychlor	22 ~~0.16~~	~~JP~~ 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	0.48	J
8001-35-2	Toxaphene	220	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001

Sample wt/vol: 31.8 (g/mL) g Lab File ID: 31110826A033,31110826B033

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.24	J
319-85-7	beta-BHC	0.51	JP
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	0.79	JP
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	11.	P
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	9.8	P
72-55-9	4,4'-DDE	77.	EP
72-20-8	Endrin	12.	P
33213-65-9	Endosulfan II	9.6	P
72-54-8	4,4'-DDD	52.	
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	140	EP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR7DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001DL

Sample wt/vol: 31.8 (g/mL) g Lab File ID: 31110827A018,31110827B018

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/27/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
	319-84-6	alpha-BHC	19.	U
	319-85-7	beta-BHC	19.	U
	319-86-8	delta-BHC	19.	U
	58-89-9	gamma-BHC (Lindane)	19.	U
	76-44-8	Heptachlor	19.	U
	309-00-2	Aldrin	19.	U
4.5	1024-57-3	Heptachlor epoxide	17.	JDP
	959-98-8	Endosulfan I	19.	U
9.5	60-57-1	Dieldrin	20.	JDP
	72-55-9	4,4'-DDE	100	D
9.5	72-20-8	Endrin	14.	JDP
9.5	33213-65-9	Endosulfan II	11.	JDP
9.5	72-54-8	4,4'-DDD	54.	DP
	1031-07-8	Endosulfan sulfate	38.	U
9.5	50-29-3	4,4'-DDT	78.	DP
	72-43-5	Methoxychlor	190	U
	53494-70-5	Endrin ketone	38.	U
9.5	7421-93-4	Endrin aldehyde	38 ~~8.9~~	~~JDP~~ U
	5103-71-9	alpha-Chlordane	19.	U
	5103-74-2	gamma-Chlordane	19.	U
	8001-35-2	Toxaphene	1900	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 31110826A034,31110826B034

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	0.80	JP
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.23	J
76-44-8	Heptachlor	1.1	JP
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	20.	P
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	110	EP
72-55-9	4,4'-DDE	120	E
72-20-8	Endrin	26.	P
33213-65-9	Endosulfan II	24.	P
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7 ~~0.58~~	~~JP~~ U
50-29-3	4,4'-DDT	340	E
72-43-5	Methoxychlor	5.5	JP
53494-70-5	Endrin ketone	2.7	JBP
7421-93-4	Endrin aldehyde	44.	
5103-71-9	alpha-Chlordane	54.	EP
5103-74-2	gamma-Chlordane	53.	EP
8001-35-2	Toxaphene	190	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR8DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002DL

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 31110827A019,31110827B019

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/27/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
	319-84-6	alpha-BHC	19.	U
4.75	319-85-7	beta-BHC	19 ~~0.67~~	~~JDP~~ U
	319-86-8	delta-BHC	19.	U
	58-89-9	gamma-BHC (Lindane)	19.	U
	76-44-8	Heptachlor	19.	U
	309-00-2	Aldrin	19.	U
4.75	1024-57-3	Heptachlor epoxide	31.	DP
	959-98-8	Endosulfan I	19.	U
9.25	60-57-1	Dieldrin	110	DP
	72-55-9	4,4'-DDE	150	D
9.25	72-20-8	Endrin	37.	JDP
9.25	33213-65-9	Endosulfan II	29.	JDP
	72-54-8	4,4'-DDD	37.	U
	1031-07-8	Endosulfan sulfate	37.	U
9.25	50-29-3	4,4'-DDT	120	DP
	72-43-5	Methoxychlor	190	U
9.25	53494-70-5	Endrin ketone	37 ~~2.9~~	~~JDP~~ U
	7421-93-4	Endrin aldehyde	37.	U
4.75	5103-71-9	alpha-Chlordane	51.	DP
4.75	5103-74-2	gamma-Chlordane	65.	DP
	8001-35-2	Toxaphene	1900	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354003

Sample wt/vol: 31.0 (g/mL) g Lab File ID: 31110826A035,31110826B035

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 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	2.0	U
319-86-8	delta-BHC	2.0 ~~0.37~~	~~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 ~~0.28~~	~~JP~~ U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0 ~~0.42~~	~~JP~~ U
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	1.1	JP
72-43-5	Methoxychlor	10 ~~0.85~~	~~JP~~ U
53494-70-5	Endrin ketone	0.95	JP
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004

Sample wt/vol: 30.7 (g/mL) g Lab File ID: 31110826A036,31110826B036

% Moisture: 8.6 Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8 ~~0.12~~	~~JP~~ U
319-86-8	delta-BHC	0.54	JBP
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8 ~~0.33~~	~~JP~~ U
1024-57-3	Heptachlor epoxide	0.84	JP
959-98-8	Endosulfan I	1.8 ~~0.17~~	~~JP~~ U
60-57-1	Dieldrin	37.	
72-55-9	4,4'-DDE	3.1	JP
72-20-8	Endrin	1.2	J
33213-65-9	Endosulfan II	3.5 ~~0.60~~	~~JP~~ U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	4.3	P
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5 ~~0.44~~	~~JP~~ U
5103-71-9	alpha-Chlordane	8.5	P
5103-74-2	gamma-Chlordane	9.5	
8001-35-2	Toxaphene	180	U

0.45
0.45
0.45
0.45
0.45
0.45
0.45
0.45
0.45

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005

Sample wt/vol: 30.6 (g/mL) g Lab File ID: 31110826A037,31110826B037

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 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 ~~0.35~~	~~JP~~U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1 ~~0.49~~	~~JP~~U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	0.71	JP
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	5.1	P
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	6.6	P
72-55-9	4,4'-DDE	29.	
72-20-8	Endrin	5.8	P
33213-65-9	Endosulfan II	4.7	P
72-54-8	4,4'-DDD	10.	P
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	59.	P
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.3	P
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

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0.53
1.03

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006

Sample wt/vol: 31.1 (g/mL) g Lab File ID: 31110826A038,31110826B038

% Moisture: 9.7 Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8 ~~0.17~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	0.69	JP
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	1.3	JP
72-55-9	4,4'-DDE	1.4	JP
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5 ~~0.39~~	~~JP~~ U
72-54-8	4,4'-DDD	3.5 ~~0.62~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	4.8	P
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5 ~~0.48~~	~~JP~~ U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

0.45
0.68

CR 9/20/11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007

Sample wt/vol: 31.5 (g/mL) g Lab File ID: 31110826A039,31110826B039

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 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 ~~0.046~~	~~JP~~ U
319-85-7	beta-BHC	2.0 ~~0.16~~	~~JP~~ U
319-86-8	delta-BHC	2.0 ~~0.39~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0 ~~0.059~~	~~JP~~ U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0 ~~0.28~~	~~JP~~ U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0 ~~0.28~~	~~JP~~ U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0 ~~0.36~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	1.8	J
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	0.39	J~~B~~
7421-93-4	Endrin aldehyde	4.0 ~~0.49~~	~~JP~~ U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

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0.50
1.00

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31110826A040,31110826B040

% Moisture: 11. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9 ~~0.31~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9 ~~0.14~~	~~JP~~ U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.81	J
72-55-9	4,4'-DDE	0.87	J
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	0.34	J
72-54-8	4,4'-DDD	3.7 ~~0.38~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	1.3	J
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.7 ~~0.17~~	~~JBP~~ U
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	0.30	J
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

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0.93

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 31110826A041,31110826B041

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 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 ~~0.14~~	~~JP~~ U
319-85-7	beta-BHC	0.76	JP
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	0.18	J
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	26.	P
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	140	EP
72-55-9	4,4'-DDE	160	E
72-20-8	Endrin	35.	P
33213-65-9	Endosulfan II	30.	P
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0 ~~0.092~~	~~JP~~ U
50-29-3	4,4'-DDT	410	E
72-43-5	Methoxychlor	7.3	JP
53494-70-5	Endrin ketone	4.7	~~E~~P
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	53.	EP
5103-74-2	gamma-Chlordane	53.	EP
8001-35-2	Toxaphene	210	U

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0.53
1.0

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS5DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009DL

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 31110827A020,31110827B020

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/27/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	21.	U
319-85-7	beta-BHC	21.	U
319-86-8	delta-BHC	21.	U
58-89-9	gamma-BHC (Lindane)	21.	U
76-44-8	Heptachlor	21.	U
309-00-2	Aldrin	21.	U
1024-57-3	Heptachlor epoxide	39.	DP
959-98-8	Endosulfan I	21.	U
60-57-1	Dieldrin	170	DP
72-55-9	4,4'-DDE	210	D
72-20-8	Endrin	51.	DP
33213-65-9	Endosulfan II	39.	JDP
72-54-8	4,4'-DDD	40.	U
1031-07-8	Endosulfan sulfate	40.	U
50-29-3	4,4'-DDT	170	DP
72-43-5	Methoxychlor	210	U
53494-70-5	Endrin ketone	40 ~~6.5~~	~~JDP~~ U
7421-93-4	Endrin aldehyde	77.	DP
5103-71-9	alpha-Chlordane	59.	DP
5103-74-2	gamma-Chlordane	67.	DP
8001-35-2	Toxaphene	2100	U

5.25
10

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A030,31110826B030

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 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	2.0	U
319-86-8	delta-BHC	2.0 ~~0.22~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	2.0 ~~0.035~~	~~JP~~ U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	0.67	JP
959-98-8	Endosulfan I	2.0 ~~0.041~~	~~JBP~~ U
60-57-1	Dieldrin	3.8 ~~0.37~~	~~JP~~ U
72-55-9	4,4'-DDE	1.7	JP
72-20-8	Endrin	3.8 ~~0.57~~	~~JP~~ U
33213-65-9	Endosulfan II	0.99	JP
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	9.2	
72-43-5	Methoxychlor	20.	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	U
8001-35-2	Toxaphene	200	U

.5
.5
.5
.95
.95
.95

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A031

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 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 ~~0.043~~	~~J~~ U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0 ~~0.24~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	11.	
76-44-8	Heptachlor	11.	
309-00-2	Aldrin	12.	
1024-57-3	Heptachlor epoxide	2.0 ~~0.47~~	~~JP~~ U
959-98-8	Endosulfan I	2.0 ~~0.032~~	~~JBP~~ U
60-57-1	Dieldrin	26.	
72-55-9	4,4'-DDE	2.5	JP
72-20-8	Endrin	32.	
33213-65-9	Endosulfan II	3.8 ~~0.78~~	~~JP~~ U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	31.	
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	0.87 ~~0.87~~	~~JBU~~ J
7421-93-4	Endrin aldehyde	3.8 ~~0.51~~	~~JP~~ U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

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0.50
0.95

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826B031

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 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	2.0 ~~0.13~~	~~J~~ U
319-86-8	delta-BHC	2.0 ~~0.41~~	~~JDP~~ U
58-89-9	gamma-BHC (Lindane)	13.	
76-44-8	Heptachlor	13.	
309-00-2	Aldrin	13.	
1024-57-3	Heptachlor epoxide	2.0 ~~1.1~~	~~JP~~ U
959-98-8	Endosulfan I	2.0 ~~0.051~~	~~JDP~~ U
60-57-1	Dieldrin	27.	
72-55-9	4,4'-DDE	1.6	JP
72-20-8	Endrin	29.	
33213-65-9	Endosulfan II	3.8 ~~0.14~~	~~JP~~ U
72-54-8	4,4'-DDD	3.8 ~~0.77~~	~~J~~ U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	34.	
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	0.90	JP
7421-93-4	Endrin aldehyde	3.8 ~~2.5~~	~~JP~~ U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0 ~~1.5~~	~~J~~ U
8001-35-2	Toxaphene	200	U

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0.50
0.45

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A032

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 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 ~~0.062~~	~~J~~ U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0 ~~0.21~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	12.	
76-44-8	Heptachlor	12.	
309-00-2	Aldrin	12.	
1024-57-3	Heptachlor epoxide	2.0 ~~0.43~~	~~JP~~ U
959-98-8	Endosulfan I	2.0 ~~0.040~~	~~JBP~~ U
60-57-1	Dieldrin	27.	
72-55-9	4,4'-DDE	2.7	JP
72-20-8	Endrin	28.	
33213-65-9	Endosulfan II	3.8 ~~0.76~~	~~JP~~ U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	32.	
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	1.5	JP
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

0.50
0.95

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826B032

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 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	2.0 ~~0.093~~	~~J~~ U
319-86-8	delta-BHC	2.0 ~~0.48~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	14.	
76-44-8	Heptachlor	14.	
309-00-2	Aldrin	13.	
1024-57-3	Heptachlor epoxide	2.0 ~~1.2~~	~~JP~~ U
959-98-8	Endosulfan I	2.0 ~~0.061~~	~~JBP~~ U
60-57-1	Dieldrin	28.	
72-55-9	4,4'-DDE	1.6	JP
72-20-8	Endrin	30.	
33213-65-9	Endosulfan II	3.8 ~~2.3~~	~~JP~~ U
72-54-8	4,4'-DDD	3.8 ~~1.5~~	~~J~~ U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	36.	
72-43-5	Methoxychlor	20 ~~4.7~~	~~J~~ U
53494-70-5	Endrin ketone	1.3	JB
7421-93-4	Endrin aldehyde	3.8 ~~1.9~~	~~J~~ U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0 ~~1.6~~	~~J~~ U
8001-35-2	Toxaphene	200	U

0.50
0.95

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232204

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A018,31110826B018

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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
3 1.7 319-86-8	delta-BHC	1.7 ~~0.13~~	~~JP~~ 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
3 1.7 959-98-8	Endosulfan I	1.7 ~~0.038~~	~~JP~~ 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.	U
3 3.3 53494-70-5	Endrin ketone	3.3 ~~0.13~~	~~JP~~ 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

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1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232536

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A020,31110826B020

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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
1.7 319-86-8	delta-BHC	1.7 ~~0.072~~	~~JP~~ 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.	U
3.3 53494-70-5	Endrin ketone	3.3 ~~0.021~~	~~JP~~ 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

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232205

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A019

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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 ~~0.036~~	~~J~~ U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7 ~~0.087~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	1.6	J
76-44-8	Heptachlor	1.7 ~~0.25~~	~~JP~~ U
309-00-2	Aldrin	1.7 ~~0.082~~	~~JP~~ U
1024-57-3	Heptachlor epoxide	1.7	
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.4	P
72-55-9	4,4'-DDE	3.0	J
72-20-8	Endrin	3.1	J
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	J
50-29-3	4,4'-DDT	3.3 ~~0.12~~	~~JP~~ U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3 ~~0.44~~	~~JBP~~ U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.6	J
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232205

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826B019

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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 ~~0.027~~	~~J~~ U
319-86-8	delta-BHC	1.7 ~~0.15~~	~~JBP~~ U
58-89-9	gamma-BHC (Lindane)	1.4	J
76-44-8	Heptachlor	1.7 ~~0.089~~	~~JP~~ U
309-00-2	Aldrin	1.7 ~~0.044~~	~~JP~~ U
1024-57-3	Heptachlor epoxide	1.5	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	2.7	JP
72-55-9	4,4'-DDE	2.9	J
72-20-8	Endrin	3.8	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.0	J
50-29-3	4,4'-DDT	3.3 ~~0.30~~	~~JP~~ U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3 ~~0.16~~	~~JBP~~ U
7421-93-4	Endrin aldehyde	3.3 ~~0.84~~	~~J~~ U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.4	J
8001-35-2	Toxaphene	170	U

cf 9/19/11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS2(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232537

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826A021

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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 ~~0.063~~	~~J~~ U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7 ~~0.19~~	~~JB~~ U
58-89-9	gamma-BHC (Lindane)	1.5	J
76-44-8	Heptachlor	1.7 ~~0.27~~	~~J~~ U
309-00-2	Aldrin	1.7 ~~0.036~~	~~J~~ U
1024-57-3	Heptachlor epoxide	1.6	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.5	P
72-55-9	4,4'-DDE	3.0	J
72-20-8	Endrin	3.6	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3 ~~0.53~~	~~J~~ U
1031-07-8	Endosulfan sulfate	3.4	
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17 ~~0.58~~	~~J~~ U
53494-70-5	Endrin ketone	3.3 ~~0.33~~	~~JB~~ U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	J
8001-35-2	Toxaphene	170	U

CMA 9/19/11

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232537

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31110826B021

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

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)	1.3	J
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.5	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	2.6	JP
72-55-9	4,4'-DDE	2.8	J
72-20-8	Endrin	3.8	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.1	J
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3 ~~2.37~~	~~J~~ U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.5	J
8001-35-2	Toxaphene	170	U

CE 9/28/11

2R - FORM II ARO-2
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

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	72	71	81	75			0
02	ABLKS2	63	71	84	81			0
03	ALCSS1	73	84	84	76			0
04	ALCSS2	68	72	93	83			0
05	E5KR4	87	96	54	73			0
06	E5KR5	88	109	55	87			0
07	E5KR6	81	88	57	89			0
08	E5KR7	86	103	47	120			0
09	E5KR7DL	98	90	154 D	155 D			0
10	E5KR8	78	87	47	92			0
11	E5KR8DL	91	83	120	99			0
12	E5KR9	81	86	54	93			0
13	E5KS0	77	86	50	91			0
14	E5KS1	87	99	45	86			0
15	E5KS1DL	95	89	104	92			0
16	E5KS2	66	78	53	105			0
17	E5KS3	72	78	50	73			0
18	E5KS4	69	82	42	78			0
19	E5KS5	71	87	46	78			0
20	E5KS5DL	86	80	112	94			0
21	E5KS6	80	88	54	81			0
22	E5KS6MS	77	77	49	80			0
23	E5KS6MSD	76	87	53	98			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

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix Spike - EPA Sample No.: E5KS6

Instrument ID: GCE19 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	150	0	110	72	29-135
AR1260	150	0	50.	32	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	150	120	78	8	0-15	29-135
AR1260	150	52.	34	4	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: _____

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix Spike - EPA Sample No.: E5KS6

Instrument ID: GCE19 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	150	0	140	92	29-135
AR1260	150	0	150	99	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	150	150	96	4	0-15	29-135
AR1260	150	180	114	14	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab Sample ID: 232218 LCS Lot No.: _____

Date Extracted: 08/11/2011 Date Analyzed (1): 08/26/2011

Instrument ID (1): GCE19 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	33.	99	50-150
AR1260	33.	27.	80	50-150

Instrument ID (2): GCE19 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/26/2011

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	33.	99	50-150
AR1260	33.	28.	85	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab Sample ID: 232538 LCS Lot No.: _____

Date Extracted: 08/13/2011 Date Analyzed (1): 08/26/2011

Instrument ID (1): GCE19 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	34.	102	50-150
AR1260	33.	30.	91	50-150

Instrument ID (2): GCE19 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 08/26/2011

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	34.	101	50-150
AR1260	33.	31.	92	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab File ID: 19110823A032,19110823B032 Lab Sample ID: 232204

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 08/11/2011

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 08/26/2011 Date Analyzed (2): 08/26/2011

Time Analyzed (1): 08:53 Time Analyzed (2): 09:13

Instrument ID (1): GCE19 Instrument ID (2): GCE19

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	232218	08/26/2011	08/26/2011
02	E5KR4	1122263001	08/26/2011	08/26/2011
03	E5KR5	1122263002	08/26/2011	08/26/2011
04	E5KR6	1122263003	08/26/2011	08/26/2011
05	E5KS6	1122263004	08/26/2011	08/26/2011
06	E5KS6MS	1122263005	08/26/2011	08/26/2011
07	E5KS6MSD	1122263006	08/26/2011	08/26/2011
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Lab File ID: 19110823A033,19110823B033 Lab Sample ID: 232536

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 08/13/2011

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 08/26/2011 Date Analyzed (2): 08/26/2011

Time Analyzed (1): 09:13 Time Analyzed (2): 09:33

Instrument ID (1): GCE19 Instrument ID (2): GCE19

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	232538	08/26/2011	08/26/2011
02	E5KR7	1122354001	08/26/2011	08/26/2011
03	E5KR7DL	1122354001DL	08/30/2011	08/30/2011
04	E5KR8	1122354002	08/26/2011	08/26/2011
05	E5KR8DL	1122354002DL	08/30/2011	08/30/2011
06	E5KR9	1122354003	08/26/2011	08/26/2011
07	E5KS0	1122354004	08/26/2011	08/26/2011
08	E5KS1	1122354005	08/26/2011	08/26/2011
09	E5KS1DL	1122354005DL	08/30/2011	08/30/2011
10	E5KS2	1122354006	08/26/2011	08/26/2011
11	E5KS3	1122354007	08/26/2011	08/26/2011
12	E5KS4	1122354008	08/26/2011	08/26/2011
13	E5KS5	1122354009	08/26/2011	08/26/2011
14	E5KS5DL	1122354009DL	08/30/2011	08/30/2011
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/26/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.71 DCB: 12.27

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660111	19110823A004	08/25/2011	23:25	4.72	12.28
02	AR1660211	19110823A005	08/25/2011	23:45	4.72	12.28
03	AR1660311	19110823A006	08/26/2011	00:05	4.71	12.27
04	AR1660411	19110823A007	08/26/2011	00:26	4.71	12.27
05	AR1660511	19110823A008	08/26/2011	00:46	4.71	12.26
06	AR1221311	19110823A009	08/26/2011	01:07	4.71	12.26
07	AR1232311	19110823A010	08/26/2011	01:27	4.71	12.26
08	AR1242311	19110823A011	08/26/2011	01:47	4.71	12.26
09	AR1248311	19110823A014	08/26/2011	02:48	4.70	12.25
10	AR1254111	19110823A017	08/26/2011	03:49	4.70	12.25
11	AR1254211	19110823A018	08/26/2011	04:09	4.70	12.25
12	AR1254311	19110823A019	08/26/2011	04:30	4.70	12.24
13	AR1254411	19110823A020	08/26/2011	04:50	4.70	12.24
14	AR1254511	19110823A021	08/26/2011	05:10	4.69	12.24
15	AR1262311	19110823A022	08/26/2011	05:31	4.69	12.24
16	AR1268311	19110823A023	08/26/2011	05:51	4.69	12.24
17	AIBLK21	19110823A024	08/26/2011	06:11	4.69	12.24
18	AR1660321	19110823A025	08/26/2011	06:31	4.69	12.24
19	AR1254321	19110823A027	08/26/2011	07:12	4.69	12.24
20	ZZZZZ		08/26/2011	07:52		
21	ZZZZZ		08/26/2011	08:12		
22	ABLKS1	19110823A032	08/26/2011	08:53	4.69	12.23
23	ABLKS2	19110823A033	08/26/2011	09:13	4.69	12.23
24	ALCSS1	19110823A035	08/26/2011	09:54	4.69	12.23
25	ALCSS2	19110823A036	08/26/2011	10:14	4.69	12.23
26	AIBLK31	19110823A037	08/26/2011	10:34	4.69	12.23
27	AR1660331	19110823A038	08/26/2011	10:54	4.69	12.23
28	AR1254331	19110823A040	08/26/2011	11:35	4.69	12.23
29	E5KR4	19110823A051	08/26/2011	15:18	4.68	12.22
30	E5KR5	19110823A052	08/26/2011	15:39	4.68	12.22
31	E5KR6	19110823A053	08/26/2011	15:59	4.68	12.21
32	E5KS6	19110823A054	08/26/2011	16:19	4.68	12.21

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/26/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.71 DCB: 12.27

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KS6MS	19110823A055	08/26/2011	16:40	4.68	12.21
02	E5KS6MSD	19110823A056	08/26/2011	17:00	4.68	12.21
03	E5KR7	19110823A057	08/26/2011	17:20	4.68	12.21
04	E5KR8	19110823A058	08/26/2011	17:40	4.68	12.21
05	E5KR9	19110823A059	08/26/2011	18:01	4.68	12.21
06	E5KS0	19110823A060	08/26/2011	18:21	4.68	12.21
07	E5KS1	19110823A061	08/26/2011	18:41	4.68	12.21
08	E5KS2	19110823A062	08/26/2011	19:02	4.68	12.21
09	E5KS3	19110823A063	08/26/2011	19:22	4.68	12.21
10	E5KS4	19110823A064	08/26/2011	19:42	4.68	12.21
11	E5KS5	19110823A065	08/26/2011	20:02	4.68	12.21
12	AIBLK41	19110823A066	08/26/2011	20:23	4.68	12.21
13	AR1660341	19110823A067	08/26/2011	20:43	4.68	12.21
14	AR1254341	19110823A069	08/26/2011	21:23	4.68	12.20
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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.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 08/29/2011 08/30/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.86 DCB: 12.49

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16601A1	19110827A004	08/29/2011	22:45	4.86	12.50
02	AR16602A1	19110827A005	08/29/2011	23:05	4.86	12.50
03	AR16603A1	19110827A006	08/29/2011	23:26	4.86	12.50
04	AR16604A1	19110827A007	08/29/2011	23:46	4.86	12.49
05	AR16605A1	19110827A008	08/30/2011	00:06	4.86	12.49
06	AR12213A1	19110827A009	08/30/2011	00:41	4.88	12.51
07	AR12323A1	19110827A010	08/30/2011	01:01	4.86	12.49
08	AR12423A1	19110827A011	08/30/2011	01:22	4.86	12.49
09	AR12483A1	19110827A012	08/30/2011	01:42	4.86	12.48
10	AR12541A1	19110827A013	08/30/2011	02:02	4.85	12.48
11	AR12542A1	19110827A014	08/30/2011	02:23	4.85	12.48
12	AR12543A1	19110827A015	08/30/2011	02:43	4.85	12.48
13	AR12544A1	19110827A016	08/30/2011	03:03	4.85	12.48
14	AR12545A1	19110827A017	08/30/2011	03:24	4.85	12.48
15	AR12623A1	19110827A018	08/30/2011	03:44	4.85	12.48
16	AR12683A1	19110827A019	08/30/2011	04:04	4.85	12.48
17	AIBLK51	19110827A020	08/30/2011	04:24	4.85	12.48
18	AR1660351	19110827A021	08/30/2011	04:45	4.85	12.48
19	AR1254351	19110827A022	08/30/2011	05:05	4.85	12.48
20	E5KR7DL	19110827A029	08/30/2011	07:27	4.85	12.48
21	E5KR8DL	19110827A031	08/30/2011	08:07	4.85	12.48
22	E5KS1DL	19110827A033	08/30/2011	08:48	4.85	12.48
23	E5KS5DL	19110827A035	08/30/2011	09:29	4.85	12.47
24	AIBLK61	19110827A051	08/30/2011	14:54	4.84	12.46
25	AR1660361	19110827A052	08/30/2011	15:14	4.84	12.46
26	AR1254361	19110827A053	08/30/2011	15:35	4.84	12.46
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.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/26/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.09 DCB: 13.35

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660112	19110823B004	08/25/2011	23:45	5.09	13.35
02	AR1660212	19110823B005	08/26/2011	00:05	5.09	13.35
03	AR1660312	19110823B006	08/26/2011	00:26	5.09	13.35
04	AR1660412	19110823B007	08/26/2011	00:46	5.09	13.35
05	AR1660512	19110823B008	08/26/2011	01:07	5.09	13.35
06	AR1221312	19110823B009	08/26/2011	01:27	5.09	13.34
07	AR1232312	19110823B010	08/26/2011	01:47	5.09	13.34
08	AR1242312	19110823B011	08/26/2011	02:07	5.09	13.34
09	AR1248312	19110823B014	08/26/2011	03:08	5.08	13.34
10	AR1254112	19110823B017	08/26/2011	04:09	5.08	13.34
11	AR1254212	19110823B018	08/26/2011	04:30	5.08	13.34
12	AR1254312	19110823B019	08/26/2011	04:50	5.08	13.34
13	AR1254412	19110823B020	08/26/2011	05:10	5.08	13.34
14	AR1254512	19110823B021	08/26/2011	05:31	5.08	13.34
15	AR1262312	19110823B022	08/26/2011	05:51	5.08	13.33
16	AR1268312	19110823B023	08/26/2011	06:11	5.08	13.34
17	AIBLK22	19110823B024	08/26/2011	06:31	5.08	13.34
18	AR1660322	19110823B025	08/26/2011	06:52	5.08	13.34
19	AR1254322	19110823B027	08/26/2011	07:32	5.08	13.33
20	ZZZZZ		08/26/2011	08:12		
21	ZZZZZ		08/26/2011	08:33		
22	ABLKS1	19110823B032	08/26/2011	09:13	5.08	13.33
23	ABLKS2	19110823B033	08/26/2011	09:33	5.08	13.33
24	ALCSS1	19110823B035	08/26/2011	10:14	5.08	13.33
25	ALCSS2	19110823B036	08/26/2011	10:34	5.08	13.33
26	AIBLK32	19110823B037	08/26/2011	10:54	5.08	13.33
27	AR1660332	19110823B038	08/26/2011	11:15	5.08	13.33
28	AR1254332	19110823B040	08/26/2011	11:55	5.08	13.33
29	E5KR4	19110823B051	08/26/2011	15:39	5.08	13.32
30	E5KR5	19110823B052	08/26/2011	15:59	5.08	13.32
31	E5KR6	19110823B053	08/26/2011	16:19	5.07	13.32
32	E5KS6	19110823B054	08/26/2011	16:40	5.07	13.32

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/25/2011 08/26/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.09 DCB: 13.35

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E5KS6MS	19110823B055	08/26/2011	17:00	5.07	13.32
02	E5KS6MSD	19110823B056	08/26/2011	17:20	5.07	13.32
03	E5KR7	19110823B057	08/26/2011	17:40	5.07	13.32
04	E5KR8	19110823B058	08/26/2011	18:01	5.07	13.32
05	E5KR9	19110823B059	08/26/2011	18:21	5.07	13.32
06	E5KS0	19110823B060	08/26/2011	18:41	5.07	13.32
07	E5KS1	19110823B061	08/26/2011	19:02	5.07	13.32
08	E5KS2	19110823B062	08/26/2011	19:22	5.07	13.32
09	E5KS3	19110823B063	08/26/2011	19:42	5.07	13.31
10	E5KS4	19110823B064	08/26/2011	20:02	5.07	13.31
11	E5KS5	19110823B065	08/26/2011	20:23	5.07	13.31
12	AIBLK42	19110823B066	08/26/2011	20:43	5.07	13.31
13	AR1660342	19110823B067	08/26/2011	21:03	5.07	13.31
14	AR1254342	19110823B069	08/26/2011	21:44	5.07	13.31
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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.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 08/29/2011 08/30/2011

Instrument ID: GCE19

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 5.17 DCB: 13.48

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16601A2	19110827B004	08/29/2011	23:05	5.18	13.48
02	AR16602A2	19110827B005	08/29/2011	23:26	5.17	13.48
03	AR16603A2	19110827B006	08/29/2011	23:46	5.17	13.47
04	AR16604A2	19110827B007	08/30/2011	00:06	5.17	13.47
05	AR16605A2	19110827B008	08/30/2011	00:41	5.17	13.48
06	AR12213A2	19110827B009	08/30/2011	01:01	5.17	13.47
07	AR12323A2	19110827B010	08/30/2011	01:22	5.17	13.47
08	AR12423A2	19110827B011	08/30/2011	01:42	5.17	13.47
09	AR12483A2	19110827B012	08/30/2011	02:02	5.17	13.47
10	AR12541A2	19110827B013	08/30/2011	02:23	5.17	13.47
11	AR12542A2	19110827B014	08/30/2011	02:43	5.17	13.46
12	AR12543A2	19110827B015	08/30/2011	03:03	5.17	13.47
13	AR12544A2	19110827B016	08/30/2011	03:24	5.17	13.46
14	AR12545A2	19110827B017	08/30/2011	03:44	5.16	13.46
15	AR12623A2	19110827B018	08/30/2011	04:04	5.17	13.46
16	AR12683A2	19110827B019	08/30/2011	04:24	5.17	13.46
17	AIBLK52	19110827B020	08/30/2011	04:45	5.17	13.46
18	AR1660352	19110827B021	08/30/2011	05:05	5.17	13.46
19	AR1254352	19110827B022	08/30/2011	05:25	5.17	13.46
20	E5KR7DL	19110827B029	08/30/2011	07:47	5.16	13.47
21	E5KR8DL	19110827B031	08/30/2011	08:28	5.16	13.46
22	E5KS1DL	19110827B033	08/30/2011	09:09	5.16	13.46
23	E5KS5DL	19110827B035	08/30/2011	09:49	5.16	13.46
24	AIBLK62	19110827B051	08/30/2011	15:14	5.16	13.45
25	AR1660362	19110827B052	08/30/2011	15:35	5.16	13.45
26	AR1254362	19110827B053	08/30/2011	15:55	5.16	13.45
27						
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31						
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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.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232204

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A032,19110823B032

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) Y

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232536

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A033,19110823B033

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) Y

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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232218

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A035

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	33.	J
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	27.	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.

ALCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232218

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823B035

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	33.	
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	28.	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(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232538

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A036

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) Y

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	30.	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 Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 232538

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823B036

% Moisture: 0.0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) Y

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	31.	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.

E5KR4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A051,19110823B051

% Moisture: 10. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A052,19110823B052

% Moisture: 13. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) Y

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.

E5KR6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A053,19110823B053

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

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.

E5KR7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001

Sample wt/vol: 31.8 (g/mL) g Lab File ID: 19110823A057,19110823B057

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) Y

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	1900	EP
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.

E5KR7DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354001DL

Sample wt/vol: 31.8 (g/mL) g Lab File ID: 19110827A029,19110827B029

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/30/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	380	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	3000	D
11096-82-5	Aroclor-1260	380	U
37324-23-5	Aroclor-1262	380	U
11100-14-4	Aroclor-1268	380	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 19110823A058,19110823B058

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	3000	EP
11096-82-5	Aroclor-1260	350	P
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR8DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354002DL

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 19110827A031,19110827B031

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/30/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	370	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	4400	D
11096-82-5	Aroclor-1260	370	U
37324-23-5	Aroclor-1262	370	U
11100-14-4	Aroclor-1268	370	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KR9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354003

Sample wt/vol: 31.0 (g/mL) g Lab File ID: 19110823A059,19110823B059

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

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.

E5KS0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354004

Sample wt/vol: 30.7 (g/mL) g Lab File ID: 19110823A060,19110823B060

% Moisture: 8.6 Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	94.	
11096-82-5	Aroclor-1260	35.	U
37324-23-5	Aroclor-1262	35.	U
11100-14-4	Aroclor-1268	35.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005

Sample wt/vol: 30.6 (g/mL) g Lab File ID: 19110823A061,19110823B061

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	790	EP
11096-82-5	Aroclor-1260	41.	U
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS1DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354005DL

Sample wt/vol: 30.6 (g/mL) g Lab File ID: 19110827A033,19110827B033

% Moisture: 22. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/30/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	410	U
11097-69-1	Aroclor-1254	1100	D
11096-82-5	Aroclor-1260	410	U
37324-23-5	Aroclor-1262	410	U
11100-14-4	Aroclor-1268	410	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354006

Sample wt/vol: 31.1 (g/mL) g Lab File ID: 19110823A062,19110823B062

% Moisture: 9.7 Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	75.	P
11096-82-5	Aroclor-1260	35.	U
37324-23-5	Aroclor-1262	35.	U
11100-14-4	Aroclor-1268	35.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354007

Sample wt/vol: 31.5 (g/mL) g Lab File ID: 19110823A063,19110823B063

% Moisture: 21. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

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.

E5KS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 19110823A064,19110823B064

% Moisture: 11. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 19110823A065,19110823B065

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

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	2100	EP
11096-82-5	Aroclor-1260	530	EP
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.

E5KS5DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122354009DL

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 19110827A035,19110827B035

% Moisture: 20. Decanted: (Y/N) N Date Received: 08/11/2011

Extraction: (Type) SONC Date Extracted: 08/13/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/30/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	5000	D
11096-82-5	Aroclor-1260	3500	DP
37324-23-5	Aroclor-1262	400	U
11100-14-4	Aroclor-1268	400	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E5KS6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263004

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A054,19110823B054

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

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	98.	
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.

E5KS6MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A055

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	110	P
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	50.	P
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.

E5KS6MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823B055

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	140	P
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	150	P
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.

E5KS6MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823A056

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

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	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	52.	P
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.

E5KS6MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41647 Mod. Ref No.: _____ SDG No.: E5KR4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1122263006

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19110823B056

% Moisture: 14. Decanted: (Y/N) N Date Received: 08/10/2011

Extraction: (Type) SONC Date Extracted: 08/11/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/26/2011

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	150	
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	180	P
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Library Search Compound Report

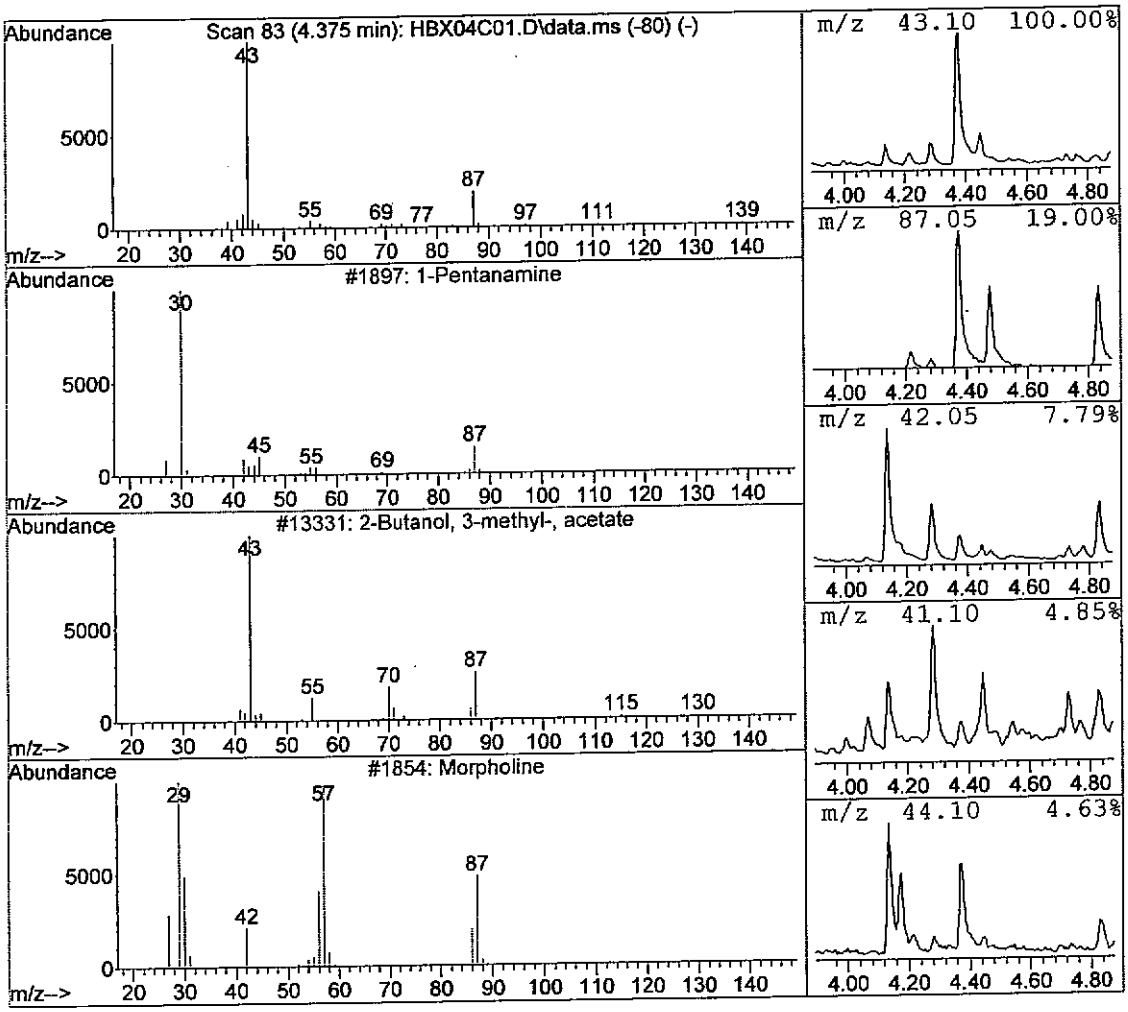
Data File : C:\msdchem\1\data\E5KR4\HBX04C01.D
Acq On : 08/16/2011 15:42
Sample : 1122263001 E5KR4
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 4
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.37	5.45 ug/ml	99031	1,4-Dichlorobenzene-d4	363245

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Pentanamine	1897	000110-58-7	37.00
2	2-Butanol, 3-methyl-, acetate	13331	005343-96-4	36.00
3	Morpholine	1854	000110-91-8	9.00
4	2,3-Butanedione	1651	000431-03-8	9.00
5	1,1-Ethanediol, diacetate	21502	000542-10-9	9.00



Library Search Compound Report

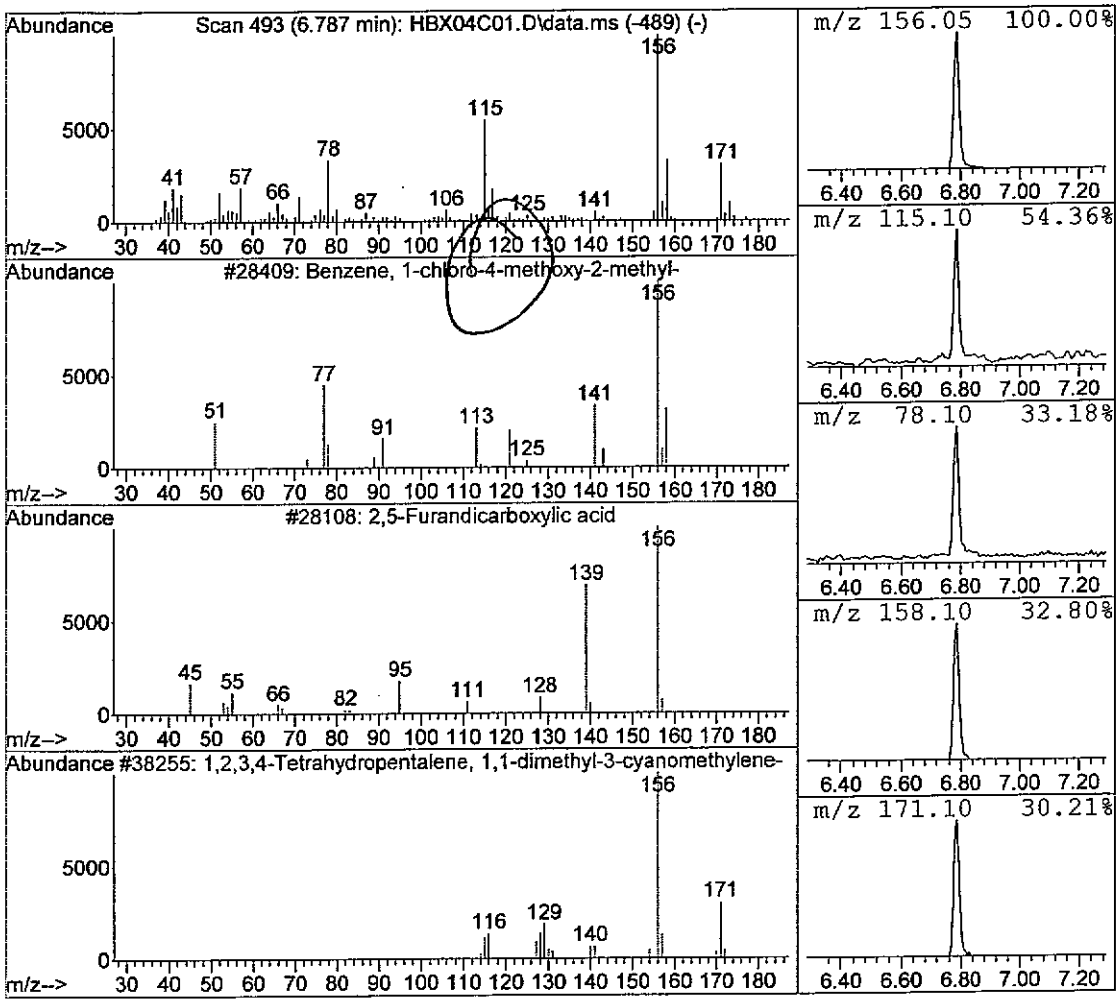
Data File : C:\msdchem\1\data\E5KR4\HBX04C01.D
Acq On : 08/16/2011 15:42
Sample : 1122263001 E5KR4
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 4
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.79	5.06 ug/ml	122256	Naphthalene-d8	483639

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1-chloro-4-methoxy-2-methy	28409	013334-71-9	38.00
2	2,5-Furandicarboxylic acid	28108	003238-40-2	35.00
3	1,2,3,4-Tetrahydropentalene, 1,1-di	38255	1000217-18-6	32.00
4	6-Isopropylquinoline	38216	000135-79-5	32.00
5	1,2,3,3a-Tetrahydropentalene, 1,1-d	38256	1000217-17-0	32.00



Library Search Compound Report

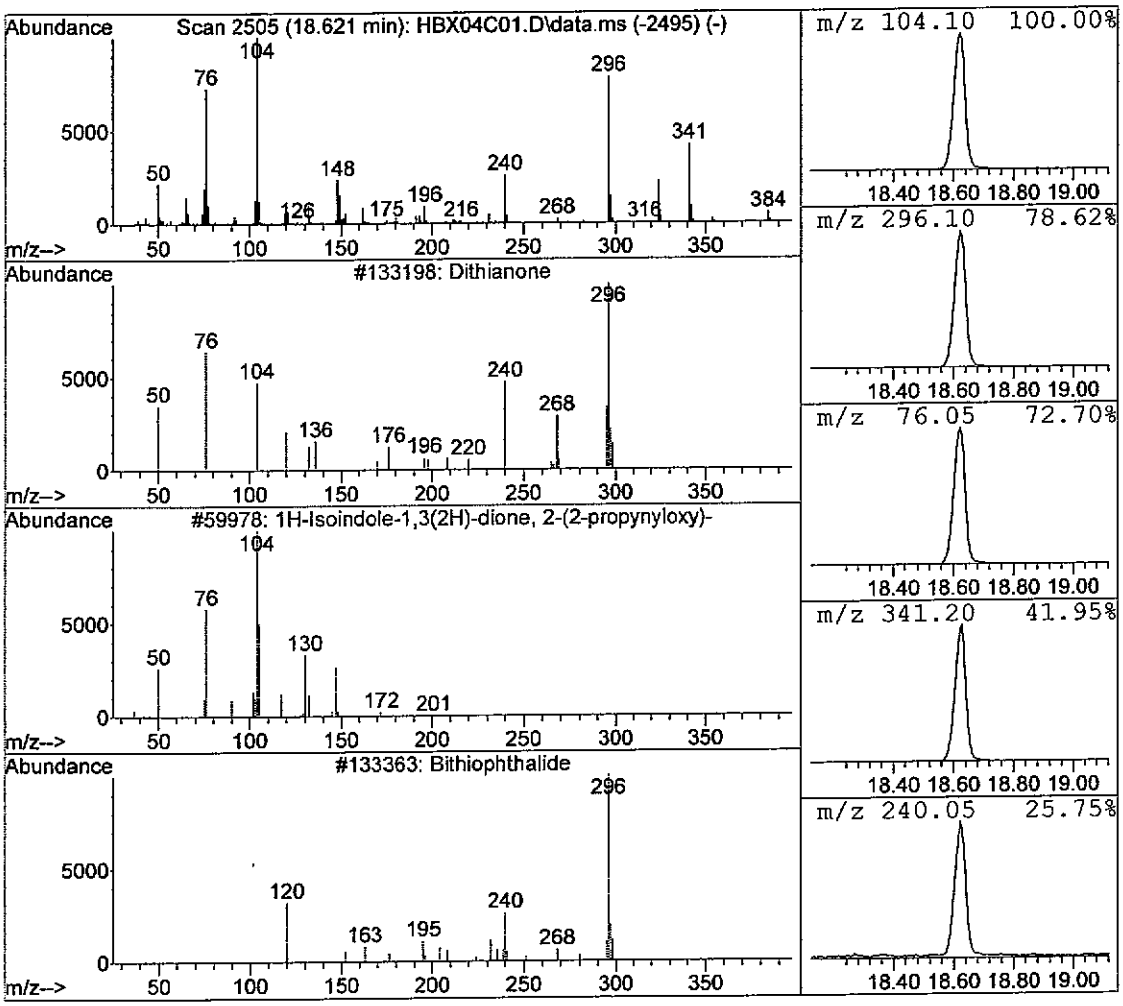
Data File : C:\msdchem\1\data\E5KR4\HBX04C01.D
Acq On : 08/16/2011 15:42
Sample : 1122263001 E5KR4
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 4
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	21.97 ug/ml	860947	Perylene-d12	783692

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dithianone	133198	003347-22-6	35.00
2	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	59978	004616-63-1	22.00
3	Bithiophthalide	133363	032819-84-4	12.00
4	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	133365	023667-32-5	12.00
5	Terephthalic acid, decyl 2-phenylet	198620	1000323-78-4	10.00



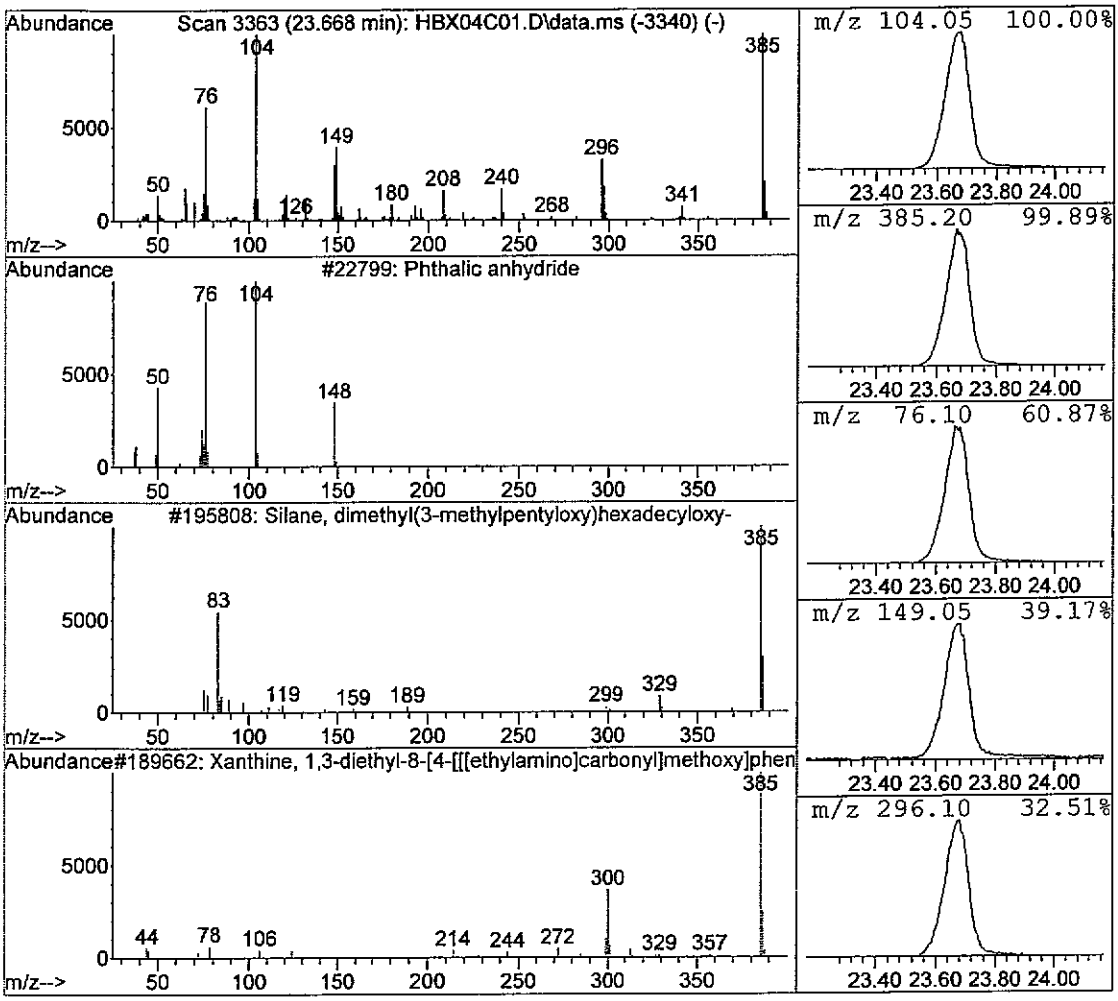
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX04C01.D Vial: 4
Acq On : 08/16/2011 15:42 Operator: RAH
Sample : 1122263001 E5KR4 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.67	28.94 ug/ml	1134197	Perylene-d12	783692

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22799	000085-44-9	16.00
2	Silane, dimethyl(3-methylpentyloxy)	195808	1000347-70-5	14.00
3	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	189662	104576-48-9	14.00
4	Picolinyl 8-(5-hexyl-2-furyl)-octan	189871	1000335-93-0	14.00
5	Phthalic acid, 2-phenylethyl propyl	145774	1000309-77-1	12.00



Library Search Compound Report

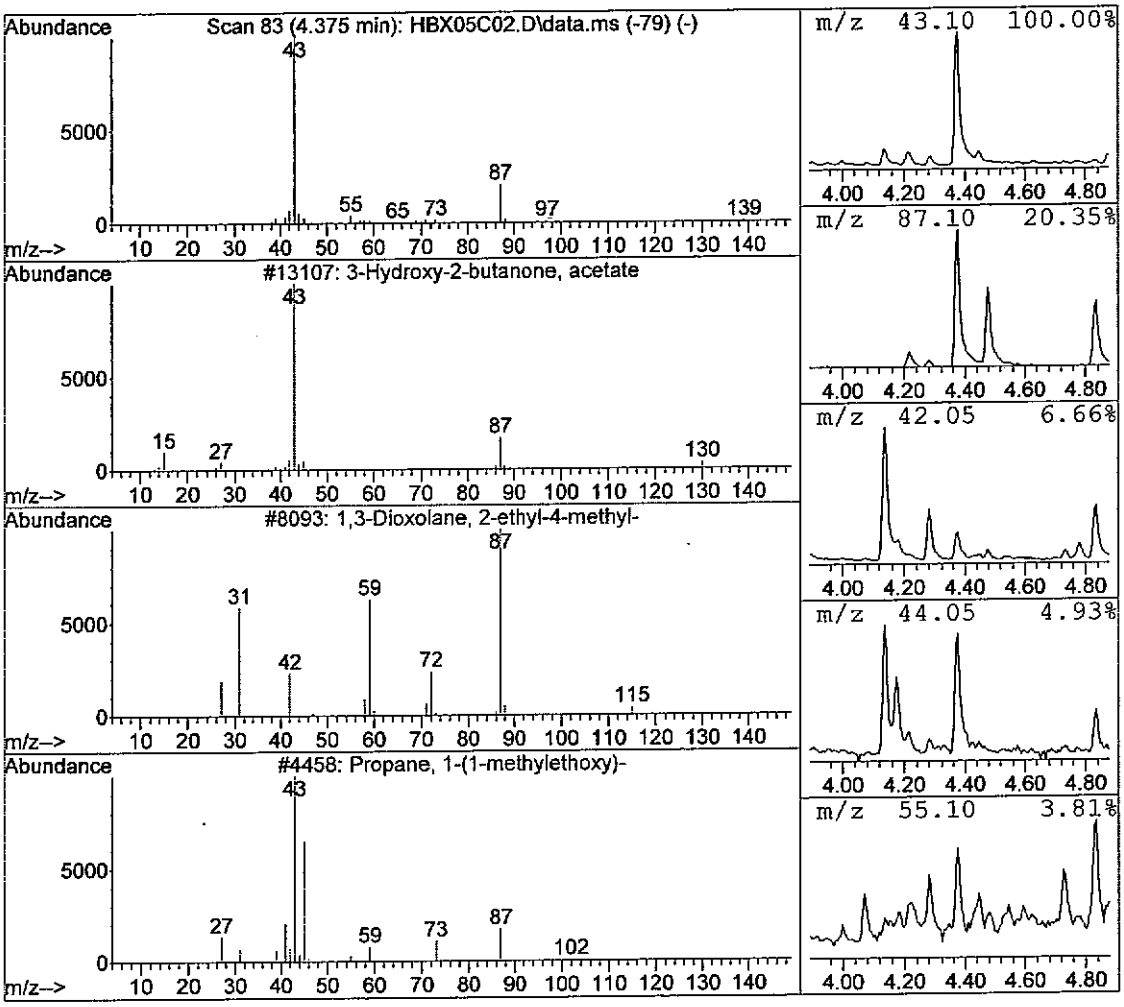
Data File : C:\msdchem\1\data\E5KR4\HBX05C02.D
Acq On : 08/16/2011 16:16
Sample : 1122263002 E5KR5
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 5
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.37	4.12 ug/ml	107332	1,4-Dichlorobenzene-d4	520704

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hydroxy-2-butanone, acetate	13107	1000352-26-7	9.00
2	1,3-Dioxolane, 2-ethyl-4-methyl-	8093	004359-46-0	9.00
3	Propane, 1-(1-methylethoxy)-	4458	000627-08-7	9.00
4	4-Heptanol, 4-methyl-	13535	000598-01-6	9.00
5	1,1-Ethanediol, diacetate	21502	000542-10-9	9.00



Library Search Compound Report

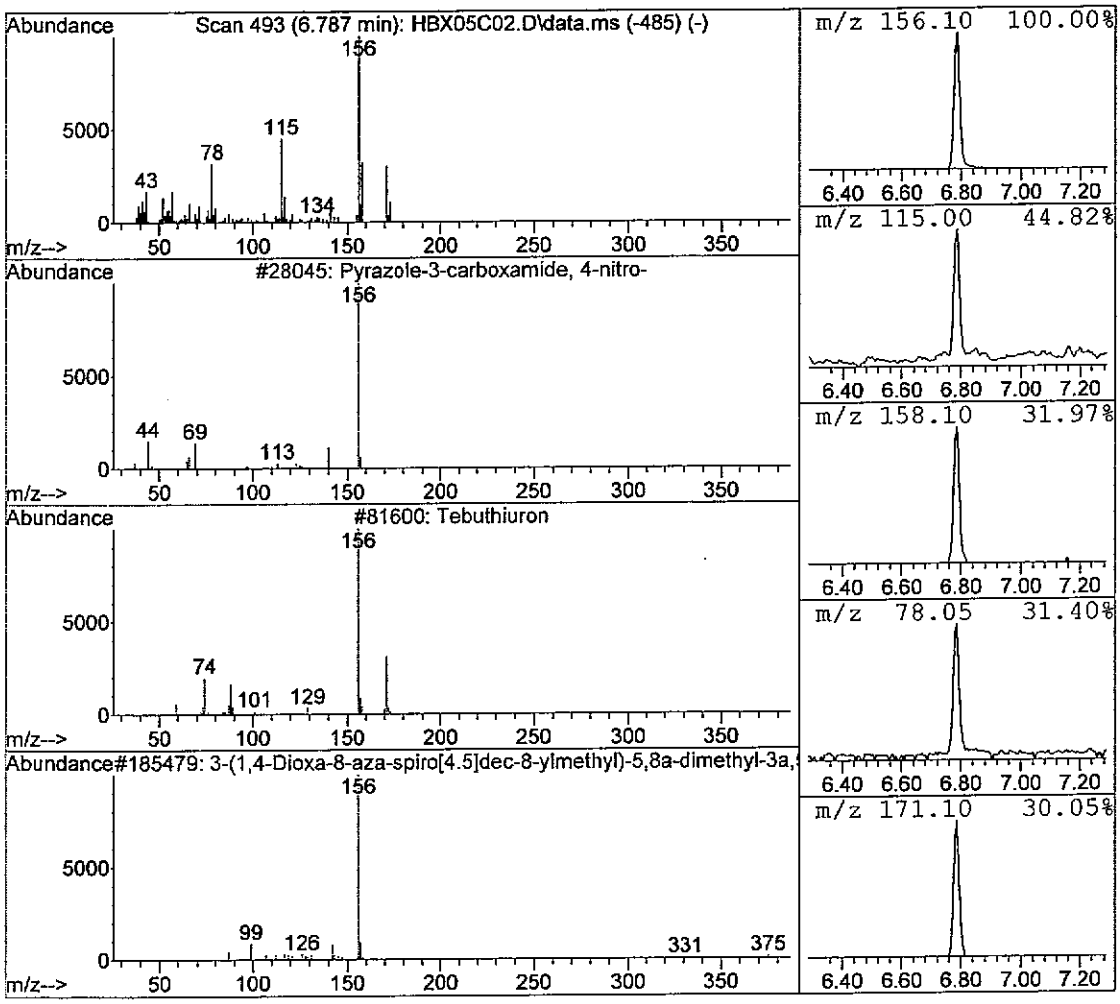
Data File : C:\msdchem\1\data\E5KR4\HBX05C02.D
Acq On : 08/16/2011 16:16
Sample : 1122263002 E5KR5
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 5
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.79	3.37 ug/ml	100138	Naphthalene-d8	594294

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrazole-3-carboxamide, 4-nitro-	28045	065190-36-5	35.00
2	Tebuthiuron	81600	034014-18-1	32.00
3	3-(1,4-Dioxa-8-aza-spiro[4.5]dec-8-	185479	1000300-75-6	27.00
4	3,3'-Bipyridine	27885	000581-46-4	27.00
5	l-Norvaline, N-allyoxycarbonyl-, he	205420	1000320-75-6	27.00



Library Search Compound Report

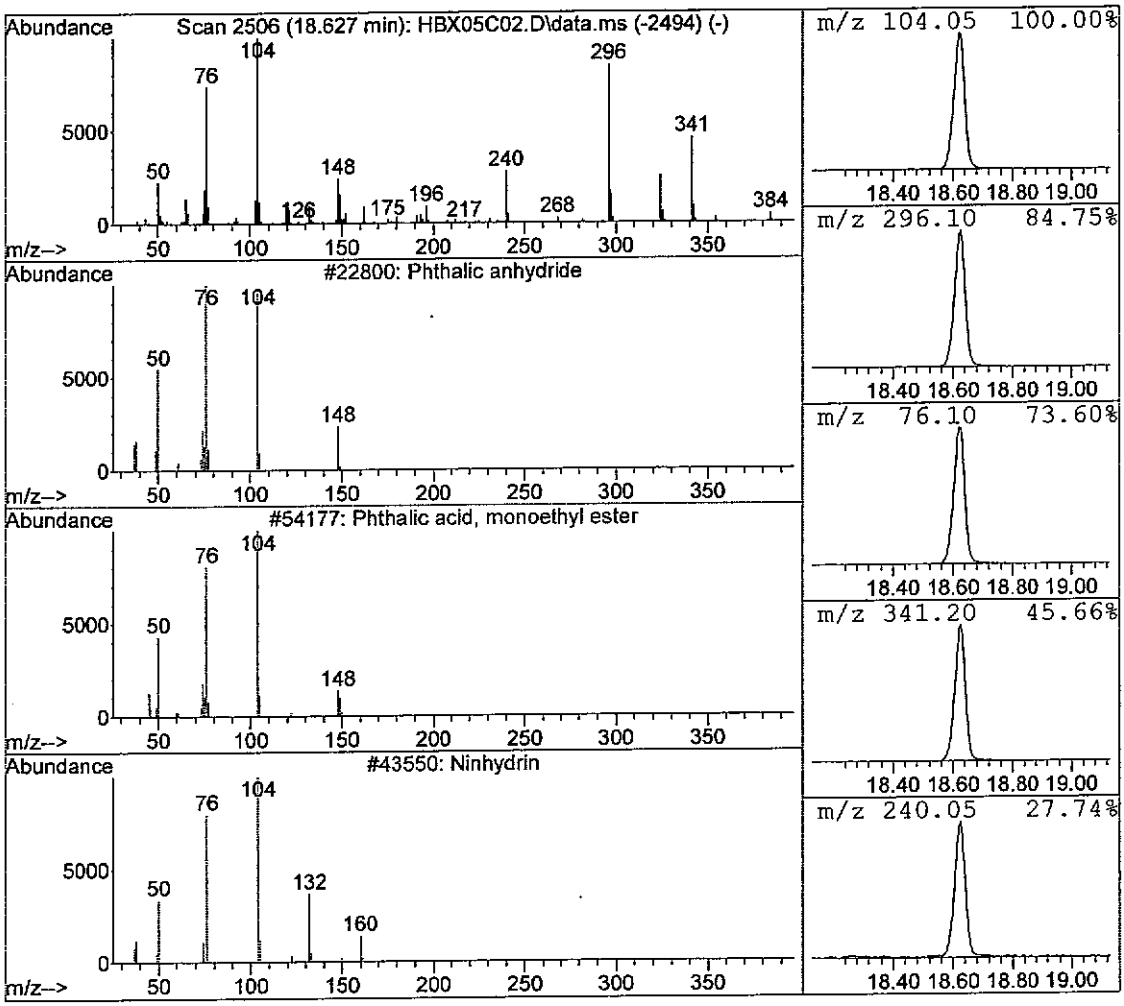
Data File : C:\msdchem\1\data\E5KR4\HBX05C02.D
Acq On : 08/16/2011 16:16
Sample : 1122263002 E5KR5
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 5
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.63	19.36 ug/ml	971885	Perylene-d12	1004063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22800	000085-44-9	42.00
2	Phthalic acid, monoethyl ester	54177	002306-33-4	40.00
3	Ninhydrin	43550	000485-47-2	40.00
4	2,6-Diphthalimidopyridine	182172	034067-90-8	40.00
5	1,2-Benzenedicarboxylic acid	34830	000088-99-3	36.00



Library Search Compound Report

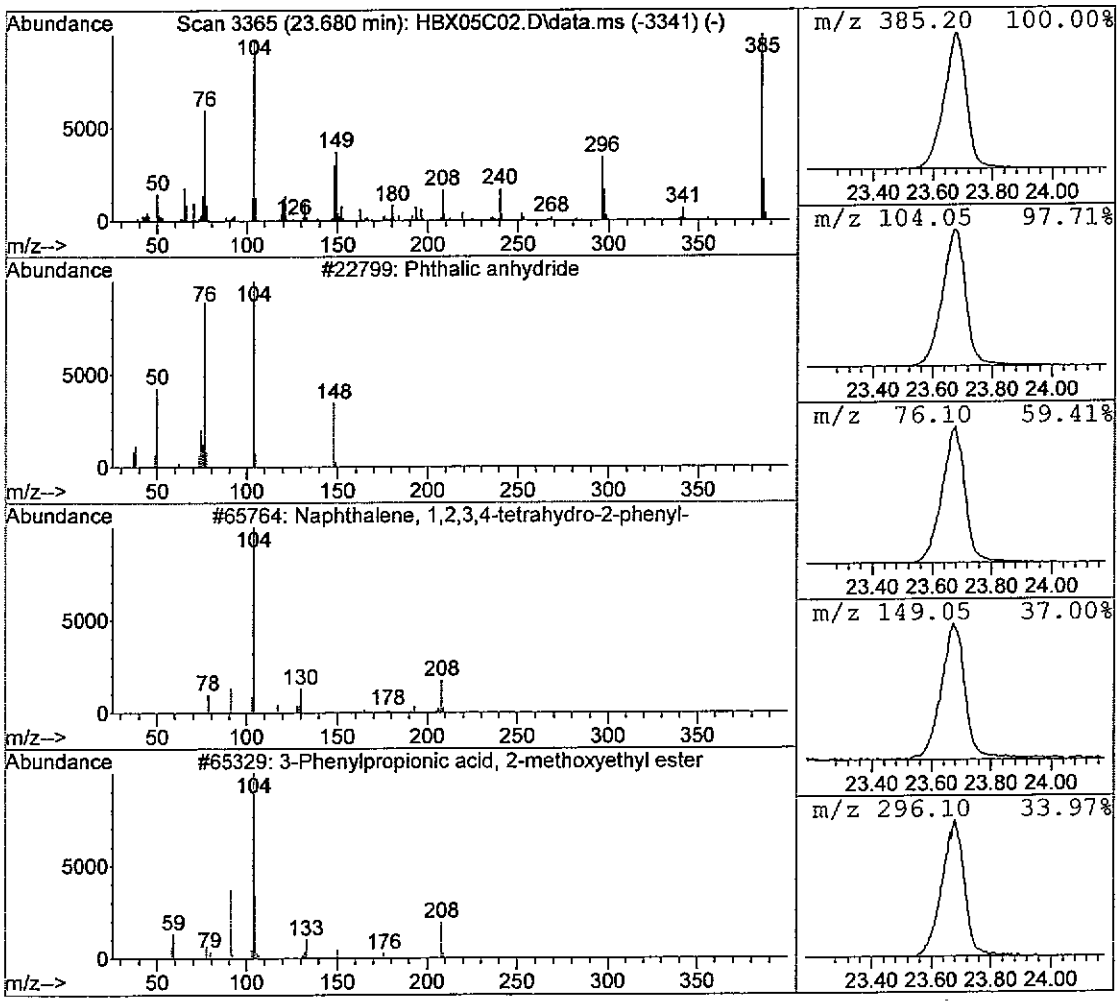
Data File : C:\msdchem\1\data\E5KR4\HBX05C02.D
Acq On : 08/16/2011 16:16
Sample : 1122263002 E5KR5
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 5
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.68	24.62 ug/ml	1235781	Perylene-d12	1004063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22799	000085-44-9	25.00
2	Naphthalene, 1,2,3,4-tetrahydro-2-p	65764	029422-13-7	18.00
3	3-Phenylpropionic acid, 2-methoxyet	65329	1000331-05-3	18.00
4	[2.2]Paracyclophane	65737	001633-22-3	18.00
5	Phthalic acid, monoethyl ester	54177	002306-33-4	16.00



Library Search Compound Report

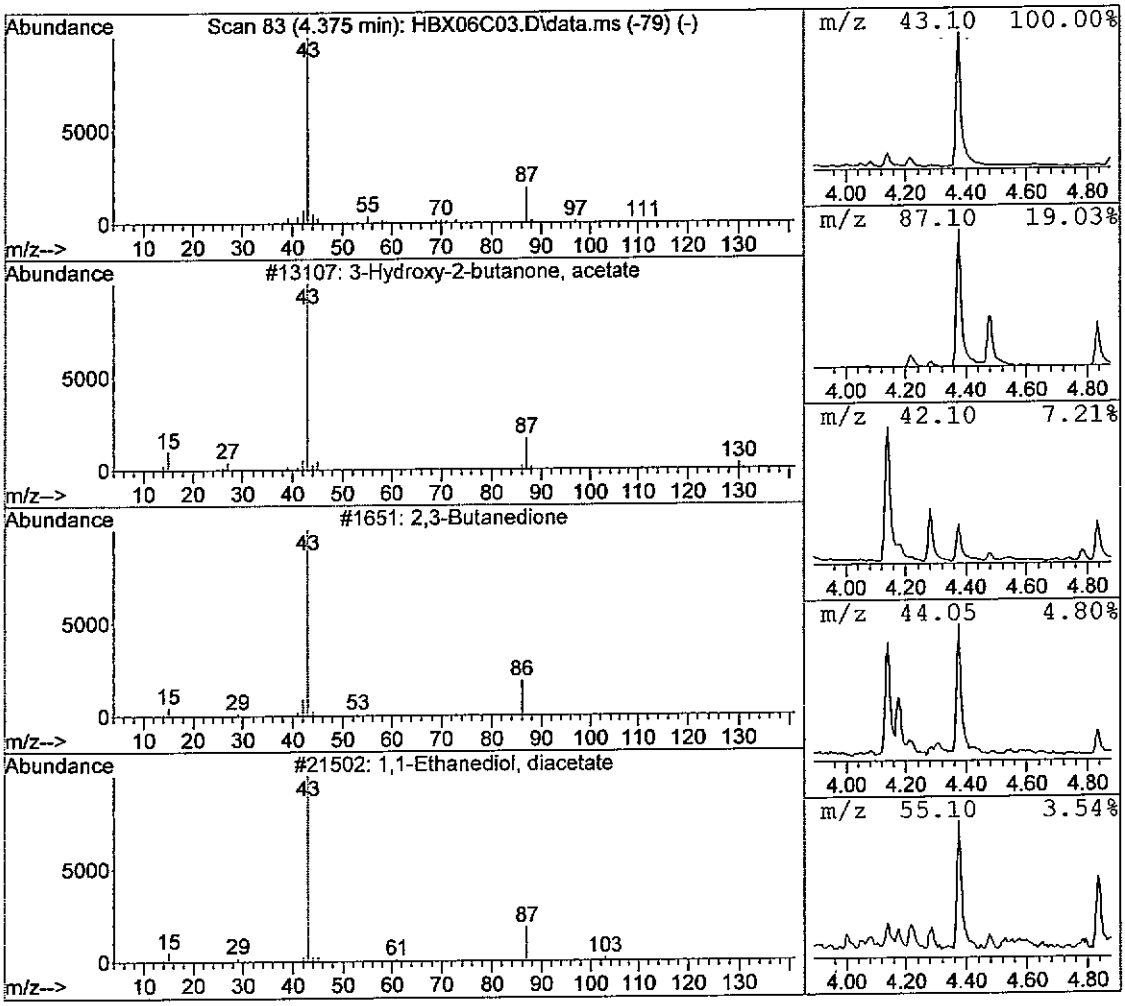
Data File : C:\msdchem\1\data\E5KR4\HBX06C03.D
Acq On : 08/16/2011 16:52
Sample : 1122263003 E5KR6
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 6
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.38	6.63 ug/ml	167693	1,4-Dichlorobenzene-d4	505690

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hydroxy-2-butanone, acetate	13107	1000352-26-7	9.00
2	2,3-Butanedione	1651	000431-03-8	9.00
3	1,1-Ethanediol, diacetate	21502	000542-10-9	9.00
4	DL-3-Methyl-2-butanol, acetate	13341	1000352-29-9	9.00
5	Morpholine	1854	000110-91-8	7.00



: 00477

Library Search Compound Report

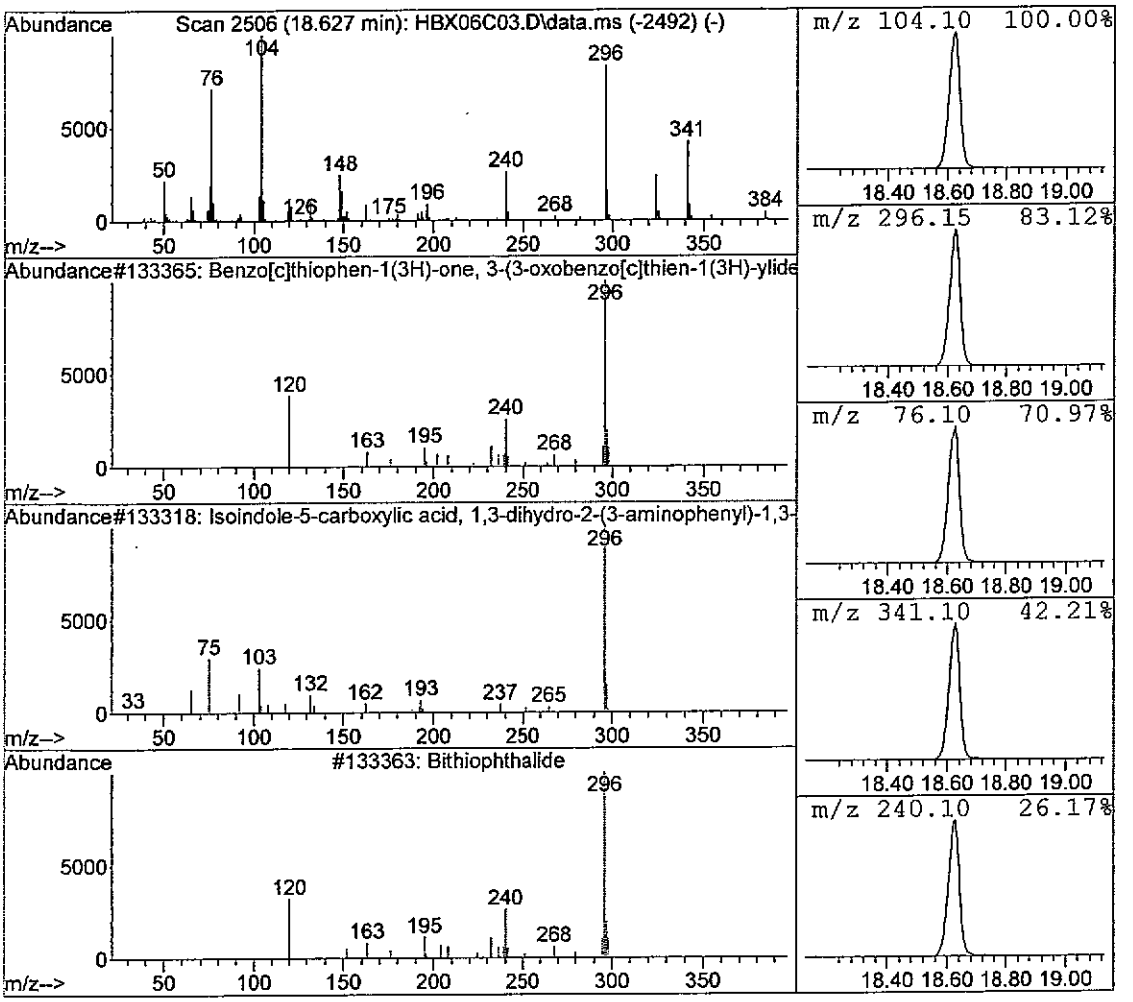
Data File : C:\msdchem\1\data\E5KR4\HBX06C03.D
Acq On : 08/16/2011 16:52
Sample : 1122263003 E5KR6
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 6
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.63	23.30 ug/ml	1028617	Perylene-d12	882864

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	133365	023667-32-5	22.00
2	Isoindole-5-carboxylic acid, 1,3-di	133318	333340-81-1	15.00
3	Bithiophthalide	133363	032819-84-4	12.00
4	Benzene, 1,1'-(1,2-cyclobutanediyl)	65776	020071-09-4	11.00
5	Terephthalic acid, hexyl 2-phenylet	174083	1000323-78-0	10.00



Library Search Compound Report

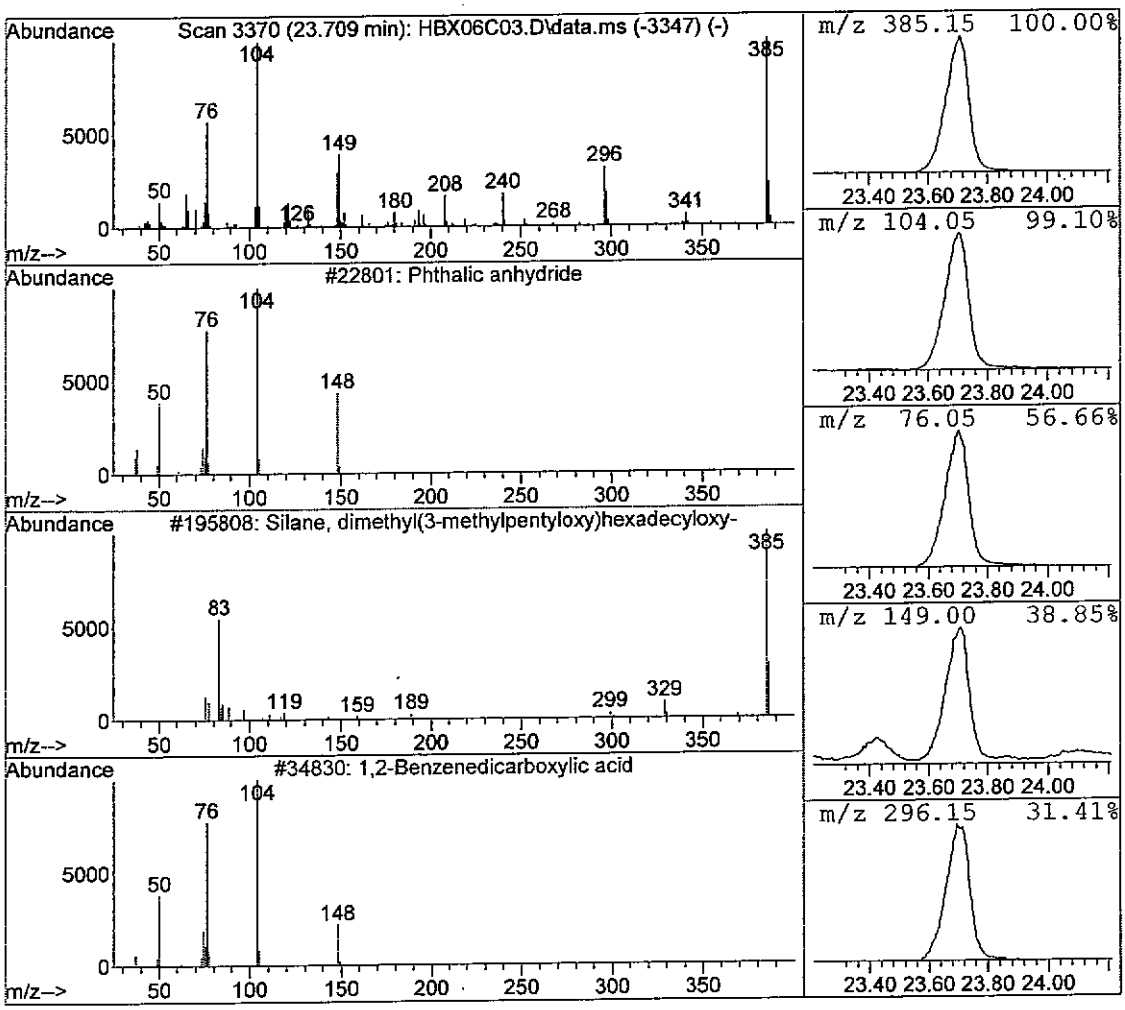
Data File : C:\msdchem\1\data\E5KR4\HBX06C03.D
Acq On : 08/16/2011 16:52
Sample : 1122263003 E5KR6
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 6
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.71	27.85 ug/ml	1229236	Perylene-d12	882864

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22801	000085-44-9	16.00
2	Silane, dimethyl(3-methylpentyloxy)	195808	1000347-70-5	14.00
3	1,2-Benzenedicarboxylic acid	34830	000088-99-3	12.00
4	Phthalic acid, monoethyl ester	54177	002306-33-4	12.00
5	[2.2]Paracyclophane	65737	001633-22-3	11.00



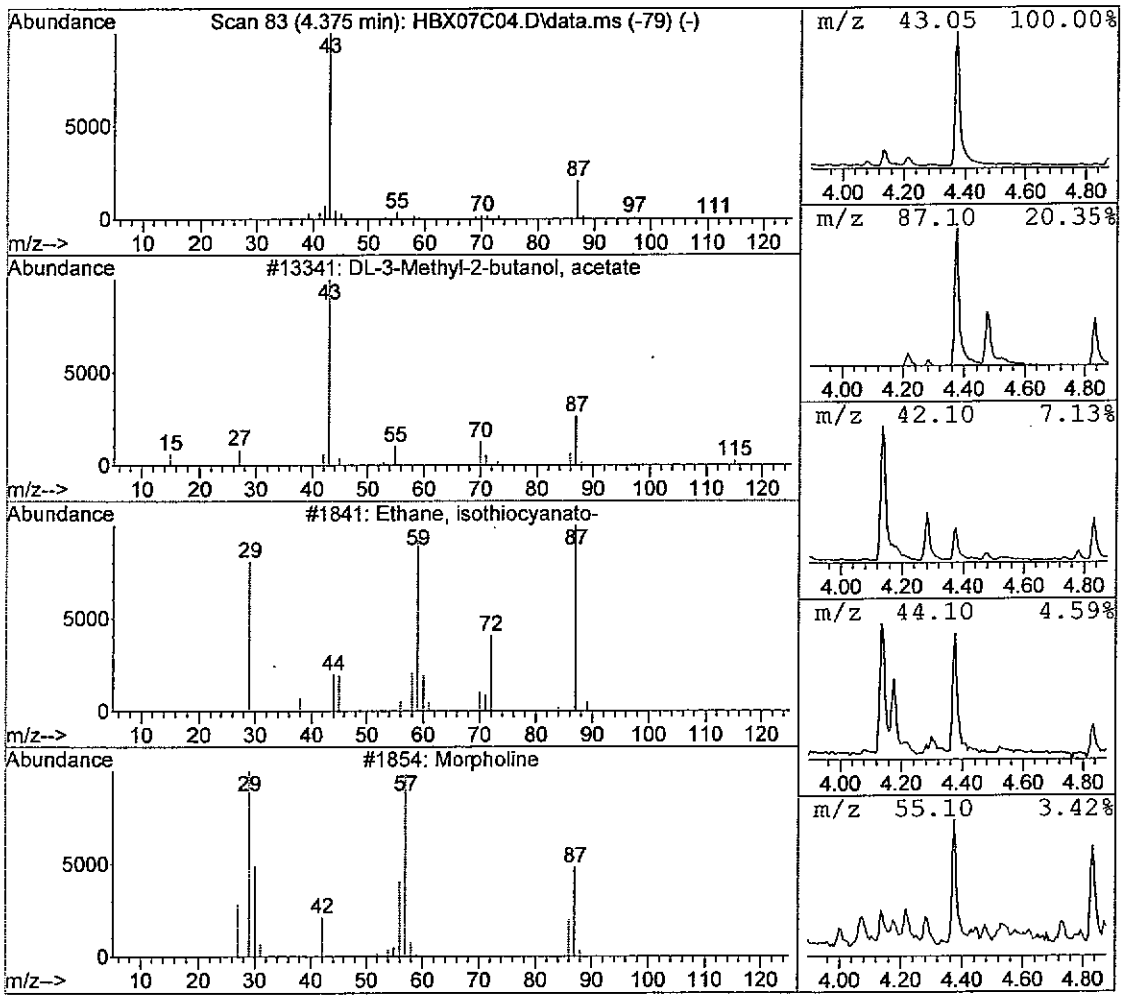
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX07C04.D Vial: 7
Acq On : 08/16/2011 17:27 Operator: RAH
Sample : 1122263004 E5KS6 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.38	6.09 ug/ml	162558	1,4-Dichlorobenzene-d4	533483

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	DL-3-Methyl-2-butanol, acetate	13341	1000352-29-9	28.00
2	Ethane, isothiocyanato-	1841	000542-85-8	9.00
3	Morpholine	1854	000110-91-8	9.00
4	3-Hydroxy-2-butanone, acetate	13107	1000352-26-7	9.00
5	1,1-Ethanediol, diacetate	21502	000542-10-9	9.00



Library Search Compound Report

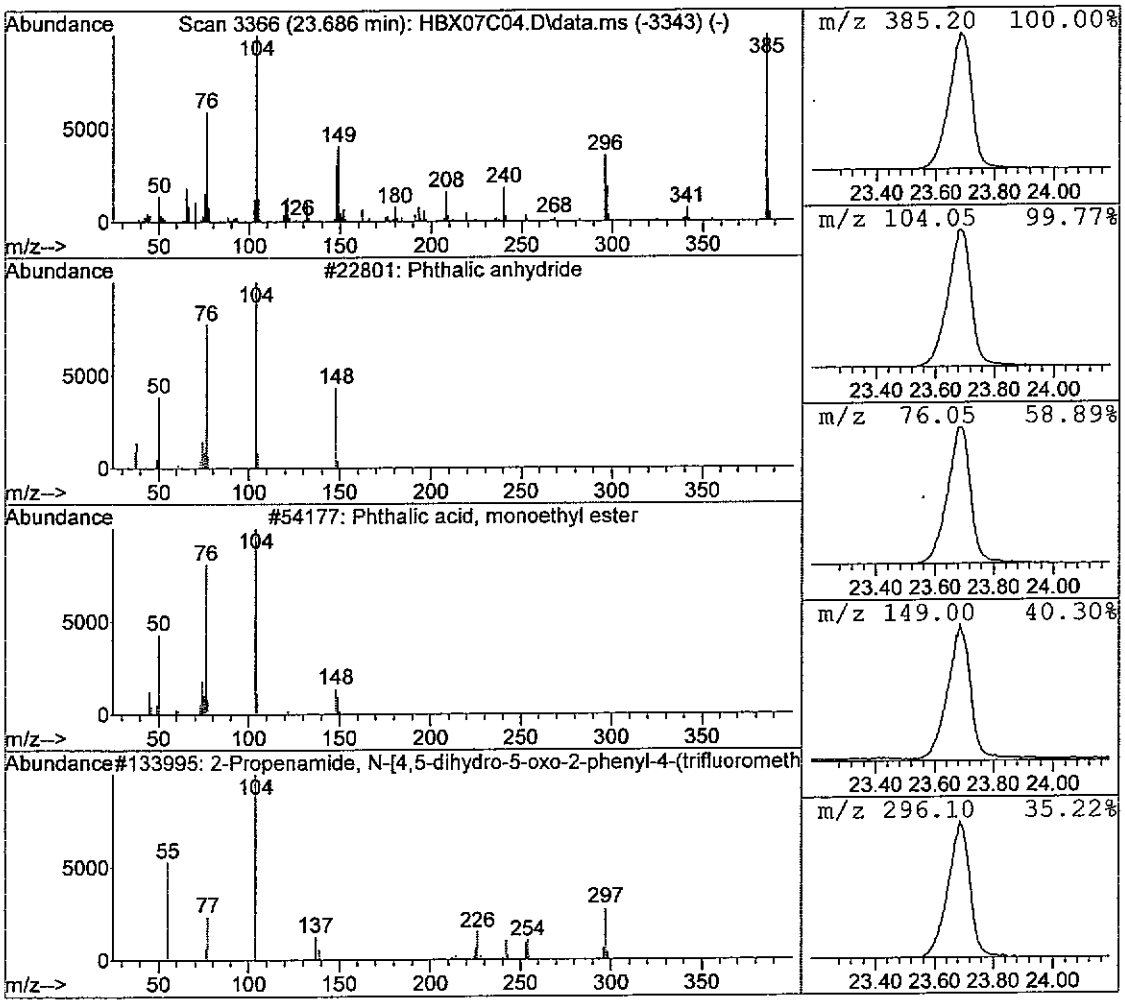
Data File : C:\msdchem\1\data\E5KR4\HBX07C04.D
Acq On : 08/16/2011 17:27
Sample : 1122263004 E5KS6
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 7
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	29.77 ug/ml	1437665	Perylene-d12	965780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22801	000085-44-9	16.00
2	Phthalic acid, monoethyl ester	54177	002306-33-4	16.00
3	2-Propenamide, N-[4,5-dihydro-5-oxo	133995	1000350-88-9	14.00
4	Picolinyl 8-(5-hexyl-2-furyl)-octan	189871	1000335-93-0	14.00
5	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	189662	104576-48-9	14.00



Library Search Compound Report

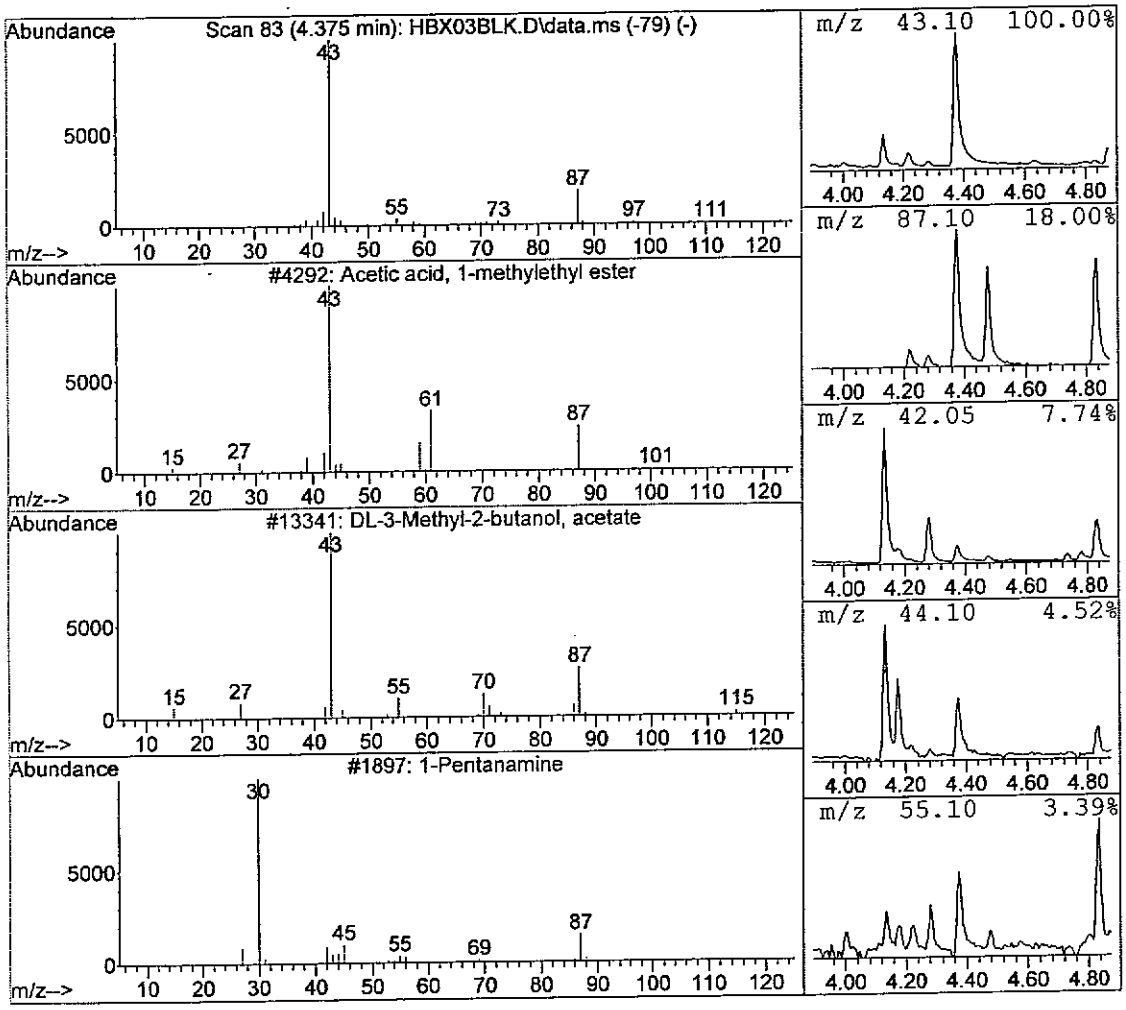
Data File : C:\msdchem\1\data\E5KR4\HBX03BLK.D
Acq On : 08/16/2011 15:08
Sample : 232203 SBLK03
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 3
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.38	4.60 ug/ml	115443	1,4-Dichlorobenzene-d4	501585

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetic acid, 1-methylethyl ester	4292	000108-21-4	36.00
2	DL-3-Methyl-2-butanol, acetate	13341	1000352-29-9	25.00
3	1-Pentanamine	1897	000110-58-7	9.00
4	Morpholine	1854	000110-91-8	9.00
5	TATP	76830	017088-37-8	9.00



Library Search Compound Report

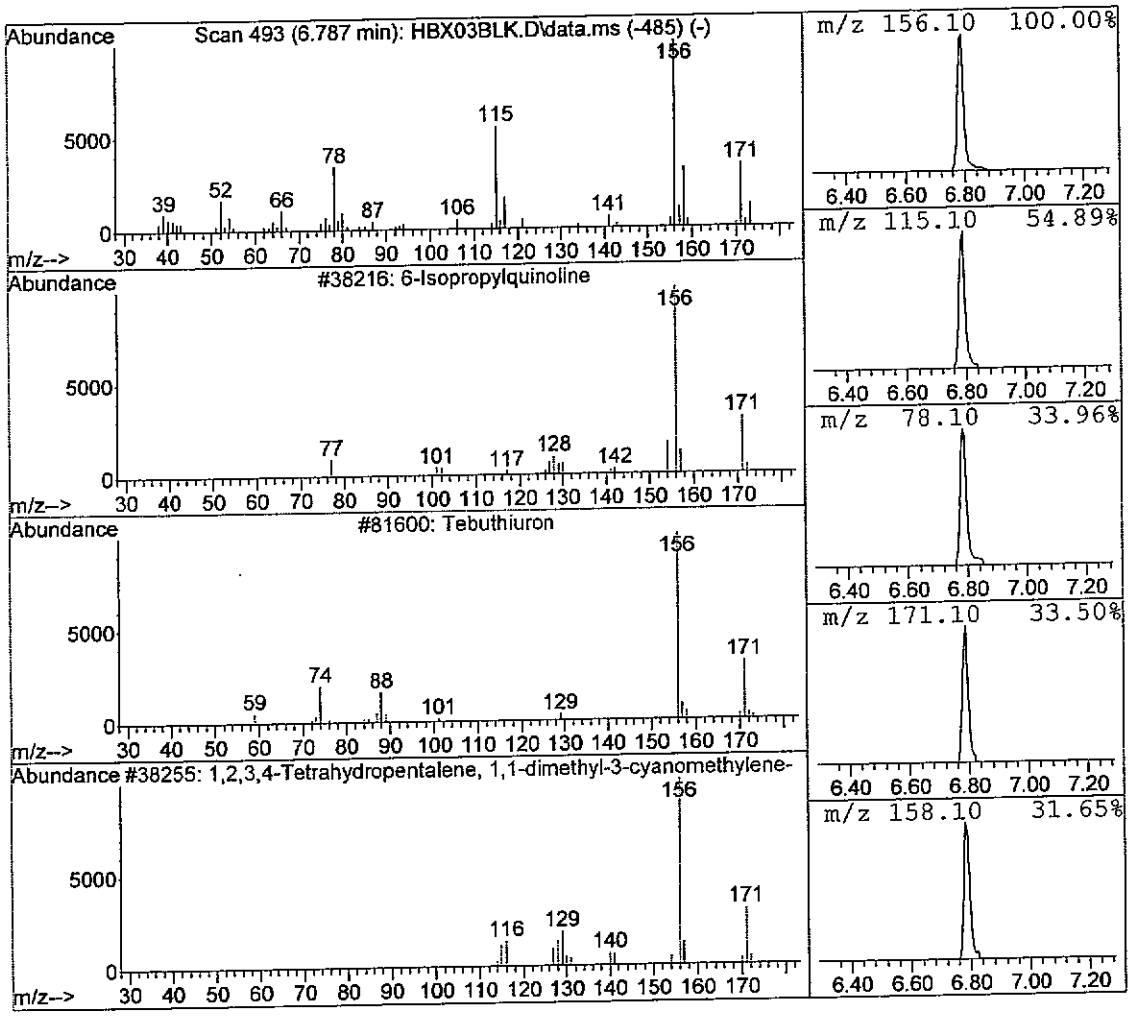
Data File : C:\msdchem\1\data\E5KR4\HBX03BLK.D
Acq On : 08/16/2011 15:08
Sample : 232203 SBLK03
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 3
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.79	2.16 ug/ml	65277	Naphthalene-d8	604015

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Isopropylquinoline	38216	000135-79-5	38.00
2	Tebuthiuron	81600	034014-18-1	37.00
3	1,2,3,4-Tetrahydropentalene, 1,1-di	38255	1000217-18-6	32.00
4	Benzene, (1,4-cyclohexadien-1-yl)-	28004	013703-52-1	25.00
5	Pyrimidine, 2-chloro-5-dimethylamin	28800	062802-43-1	25.00



Library Search Compound Report

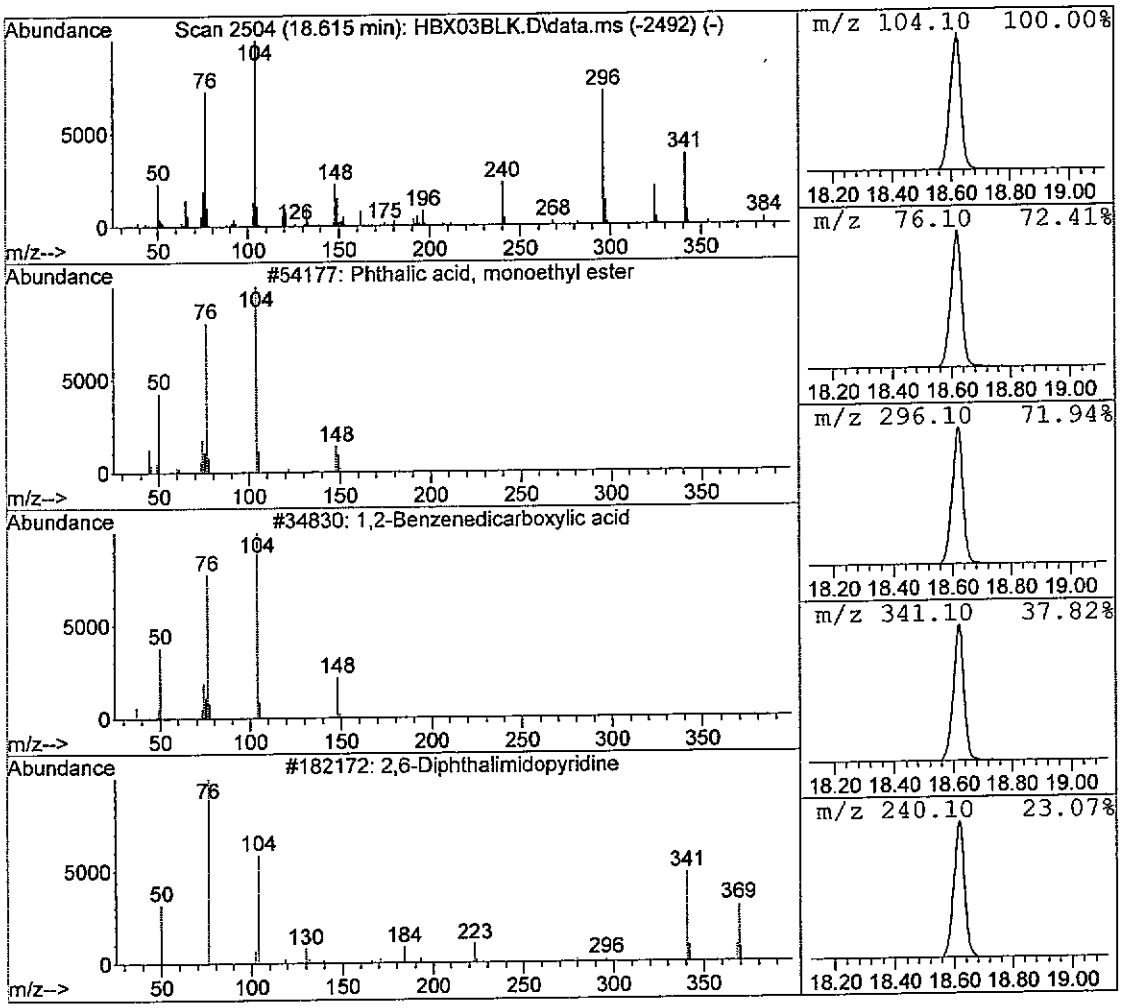
Data File : C:\msdchem\1\data\E5KR4\HBX03BLK.D
Acq On : 08/16/2011 15:08
Sample : 232203 SBLK03
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 3
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	21.77 ug/ml	854930	Perylene-d12	785564

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic acid, monoethyl ester	54177	002306-33-4	32.00
2	1,2-Benzenedicarboxylic acid	34830	000088-99-3	32.00
3	2,6-Diphthalimidopyridine	182172	034067-90-8	27.00
4	Indan-1,3-dione, 2-methylimine, N-o	50912	1000284-23-9	25.00
5	3-Ethylideneisobenzofuranone	30190	004767-63-9	25.00



Library Search Compound Report

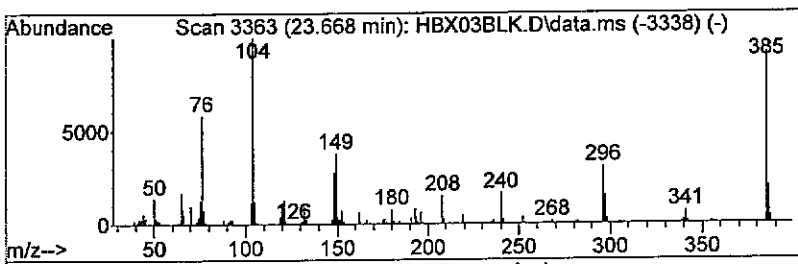
Data File : C:\msdchem\1\data\E5KR4\HBX03BLK.D
Acq On : 08/16/2011 15:08
Sample : 232203 SBLK03
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

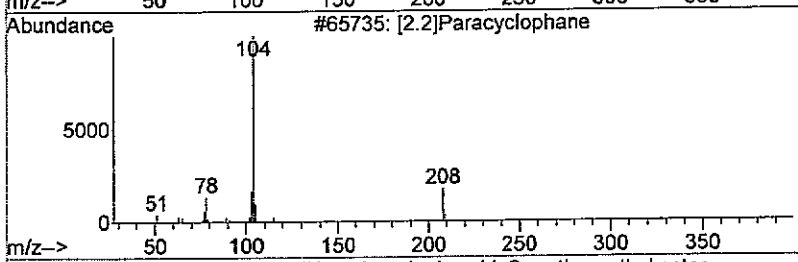
Vial: 3
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

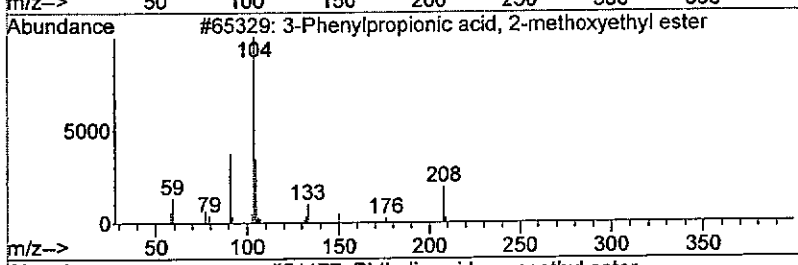
Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

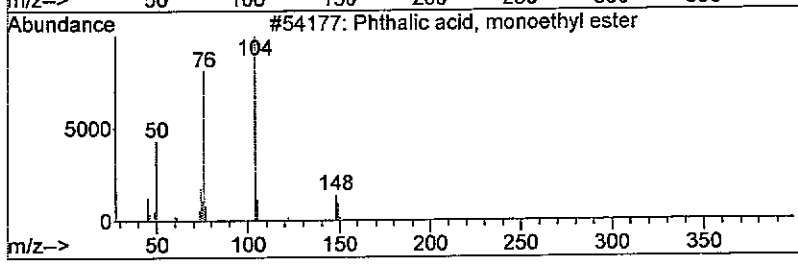
R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.67	26.95 ug/ml	1058625	Perylene-d12	785564

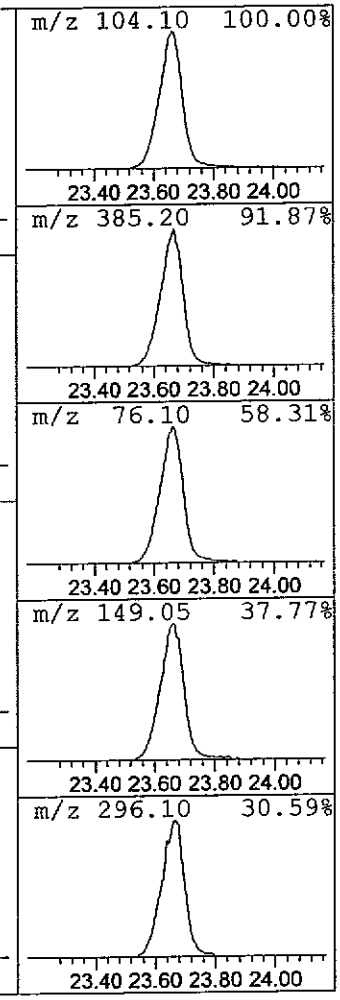
Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[2.2]Paracyclophane	65735	001633-22-3	18.00
2	3-Phenylpropionic acid, 2-methoxyet	65329	1000331-05-3	18.00
3	Phthalic acid, monoethyl ester	54177	002306-33-4	16.00
4	Picolinyl 8-(5-hexyl-2-furyl)-octan	189871	1000335-93-0	14.00
5	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	189662	104576-48-9	14.00











Library Search Compound Report

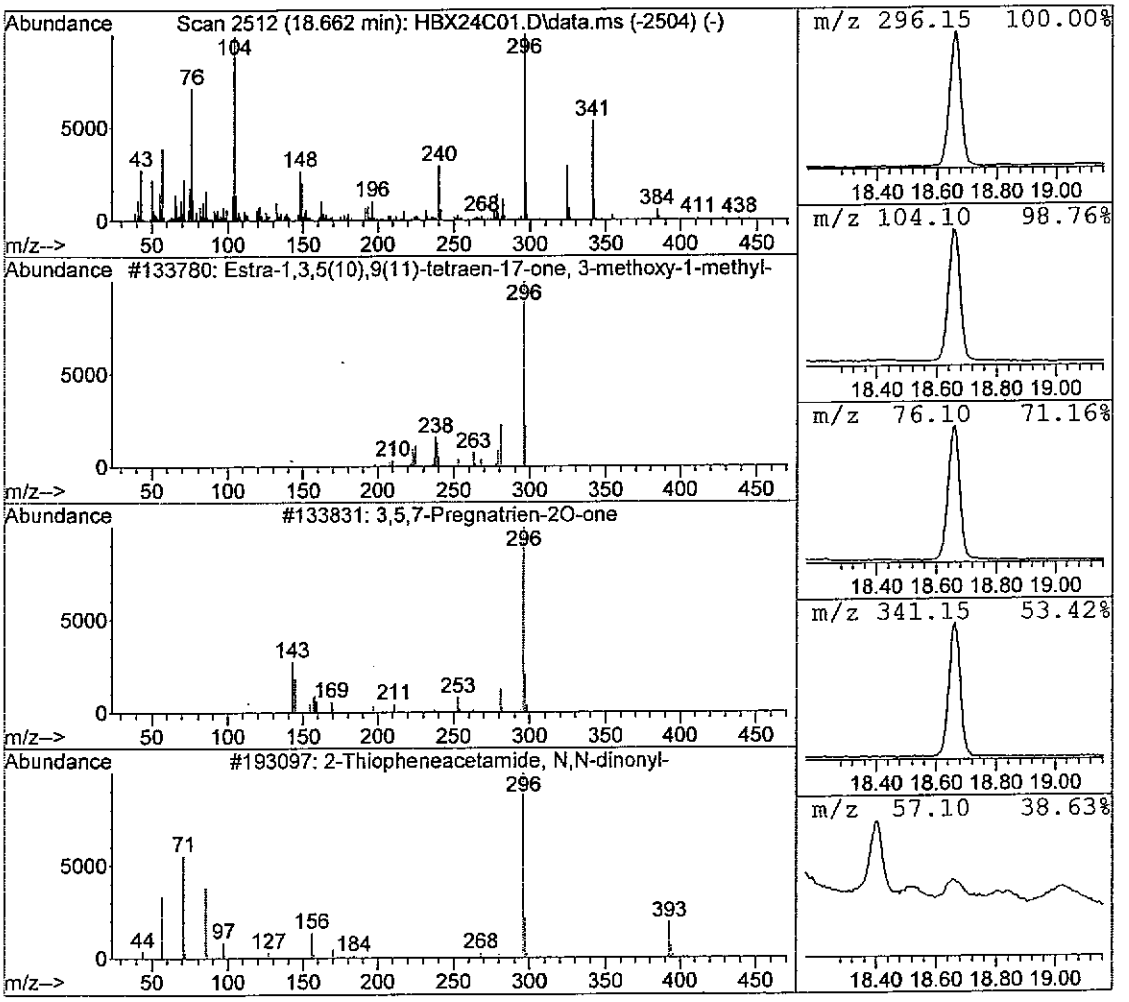
Data File : C:\msdchem\1\data\E5KR4\HBX24C01.D
Acq On : 08/17/2011 03:24
Sample : 1122354001 E5KR7
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 21
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.66	12.95 ug/ml	1044374	Perylene-d12	1612929

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Estra-1,3,5(10),9(11)-tetraen-17-on	133780	069796-63-0	22.00
2	3,5,7-Pregnatrien-20-one	133831	1000227-49-1	18.00
3	2-Thiopheneacetamide, N,N-dinonyl-	193097	1000308-14-3	14.00
4	2-(2-Quinolyl)(1,2,4)triazolo(1,5-a	133635	1000241-15-8	14.00
5	Dimethyldioctadecylammonium bromide	218512	003700-67-2	14.00



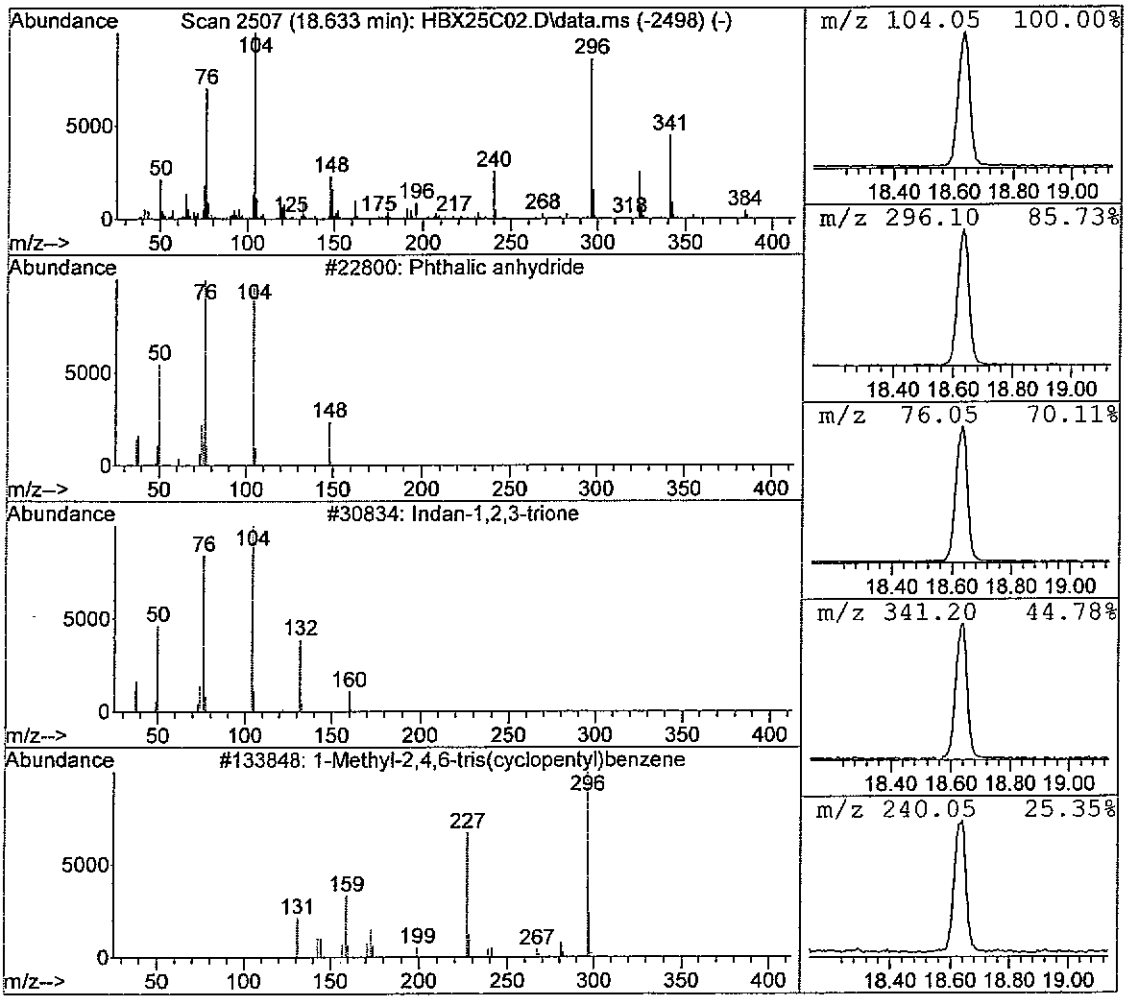
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX25C02.D Vial: 22
Acq On : 08/17/2011 03:59 Operator: RAH
Sample : 1122354002 E5KR8 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.63	10.51 ug/ml	525161	Perylene-d12	999121

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22800	000085-44-9	16.00
2	Indan-1,2,3-trione	30834	000938-24-9	12.00
3	1-Methyl-2,4,6-tris(cyclopentyl)ben	133848	100325-74-4	11.00
4	Benzene, 1,1'-(1,2-cyclobutanediyl)	65776	020071-09-4	11.00
5	2-Pentanone, 5-phenyl-	31499	002235-83-8	10.00



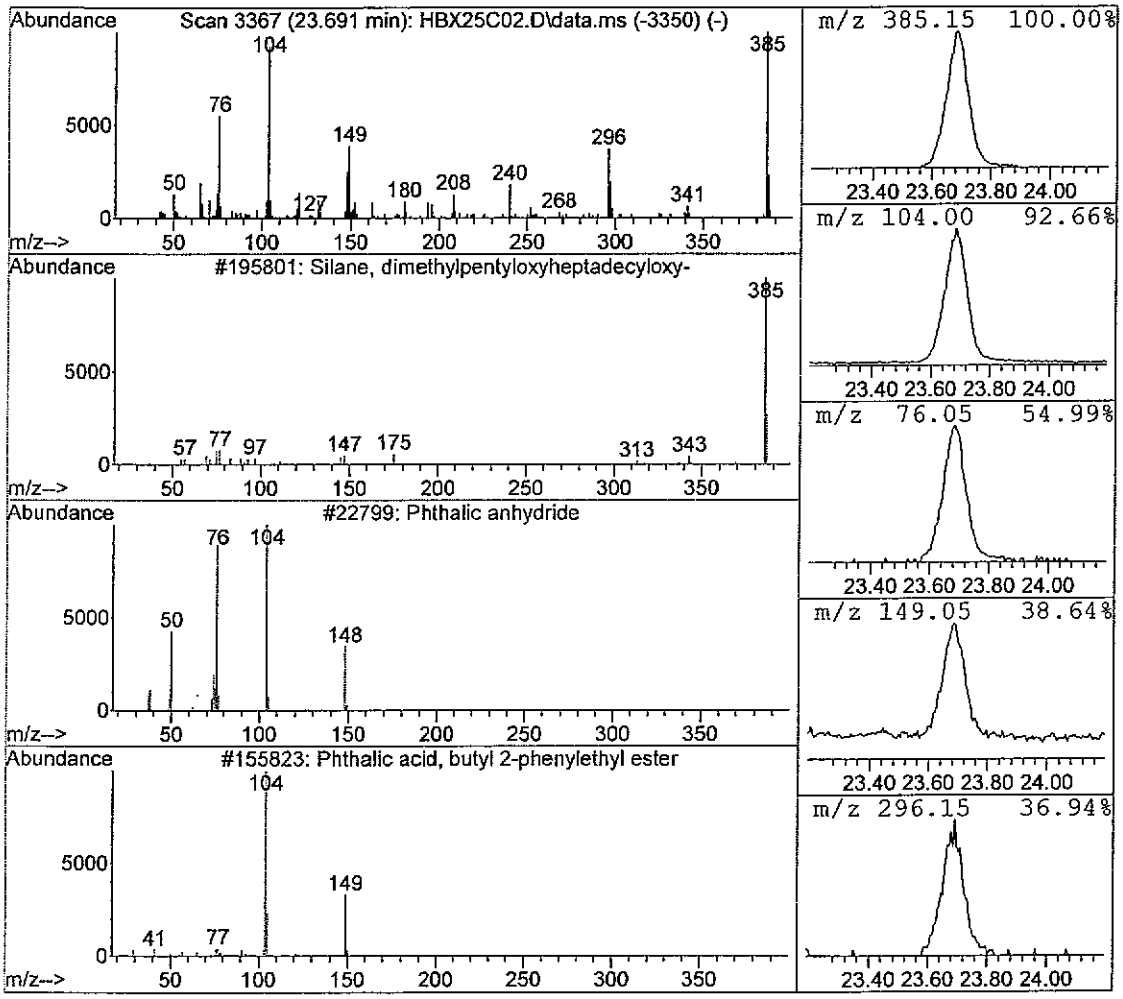
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX25C02.D Vial: 22
Acq On : 08/17/2011 03:59 Operator: RAH
Sample : 1122354002 E5KR8 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	7.62 ug/ml	380536	Perylene-d12	999121

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Silane, dimethylpentyloxyheptadecyl	195801	1000346-83-5	14.00
2	Phthalic anhydride	22799	000085-44-9	12.00
3	Phthalic acid, butyl 2-phenylethyl	155823	1000309-77-3	12.00
4	Phthalic acid, 2-phenylethyl propyl	145774	1000309-77-1	12.00
5	[2.2]Paracyclophane	65737	001633-22-3	11.00



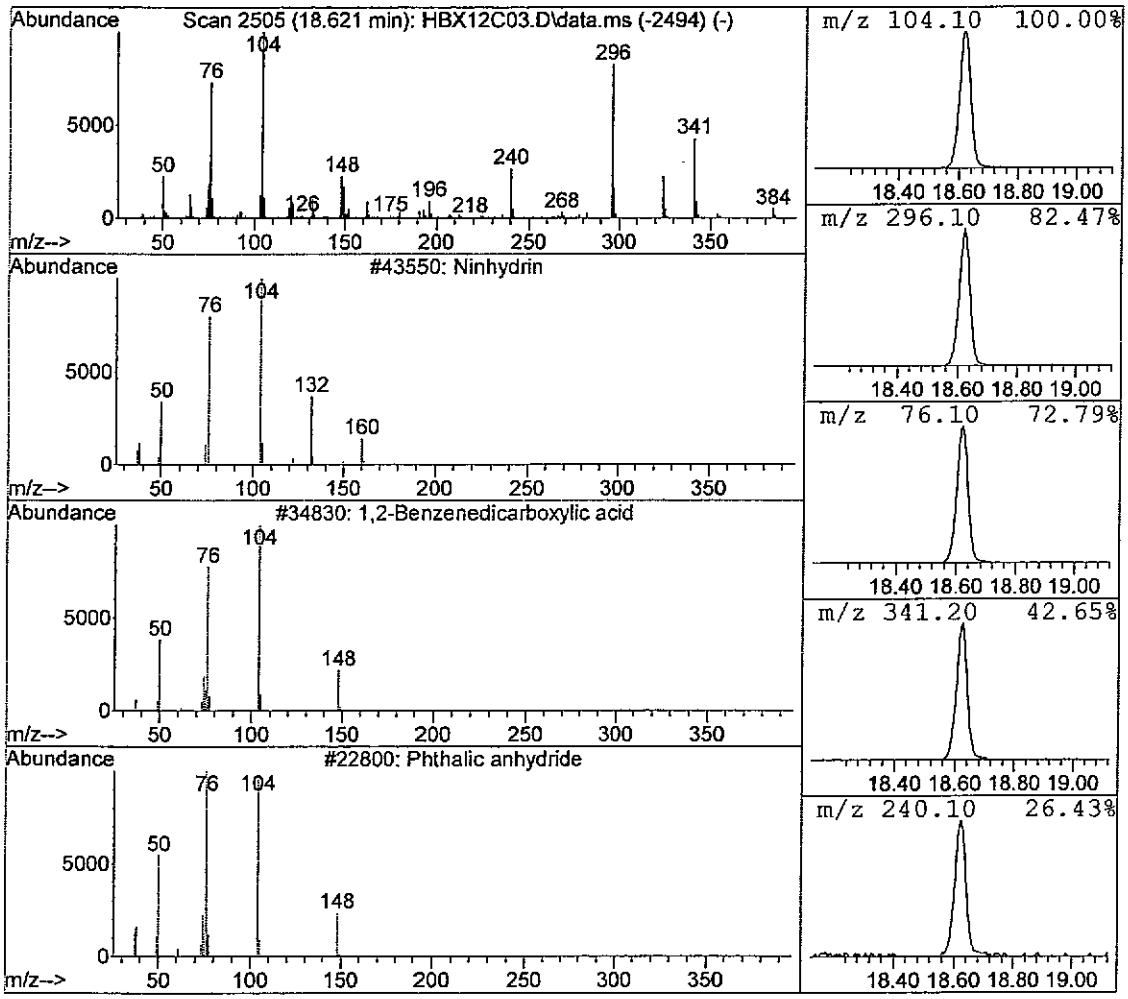
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX12C03.D Vial: 12
Acq On : 08/16/2011 20:18 Operator: RAH
Sample : 1122354003 E5KR9 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	9.77 ug/ml	523099	Perylene-d12	1070725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ninhydrin	43550	000485-47-2	22.00
2	1,2-Benzenedicarboxylic acid	34830	000088-99-3	16.00
3	Phthalic anhydride	22800	000085-44-9	16.00
4	Phthalic acid, monoethyl ester	54177	002306-33-4	16.00
5	2-(2-Quinolyl)(1,2,4)triazolo(1,5-a	133635	1000241-15-8	14.00



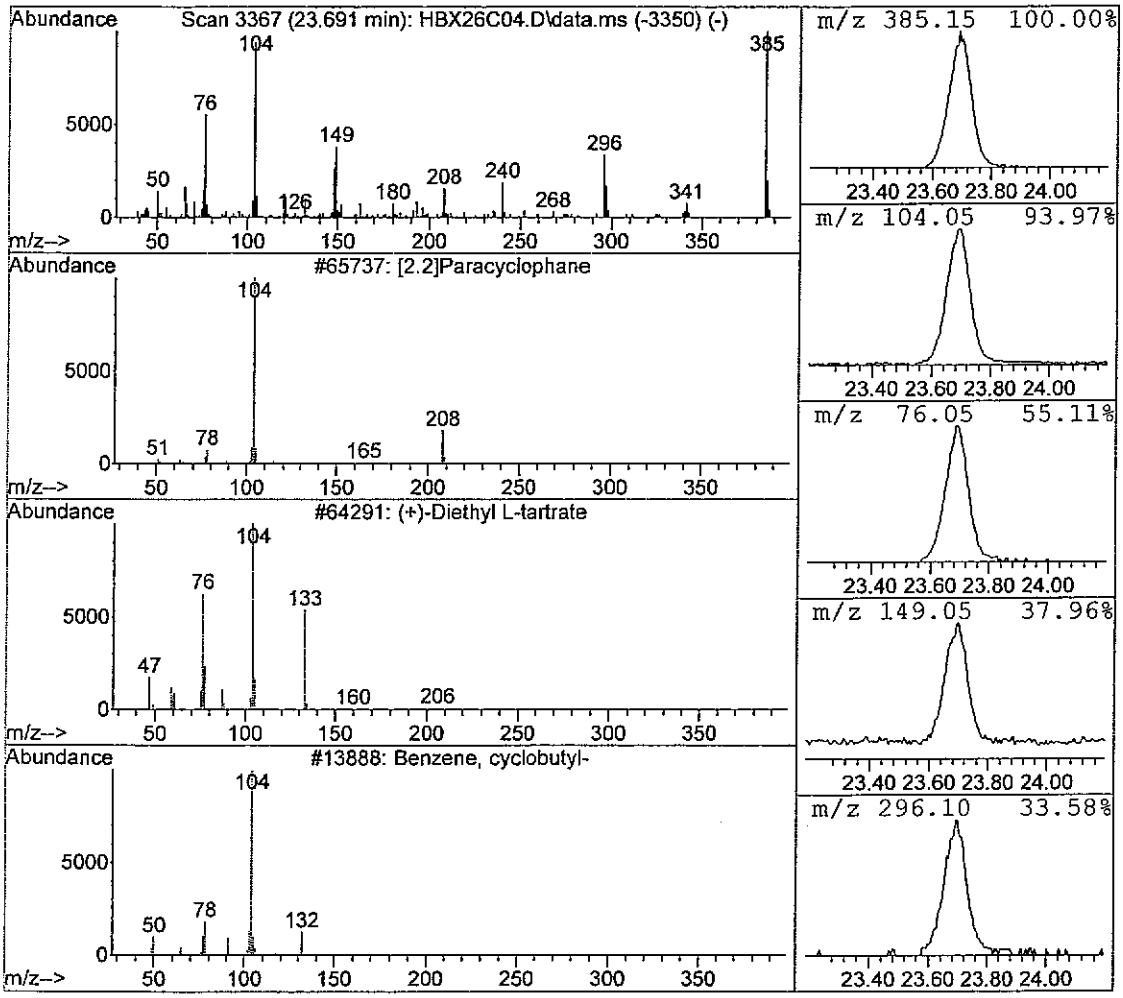
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX26C04.D Vial: 23
Acq On : 08/17/2011 04:34 Operator: RAH
Sample : 1122354004 E5KS0 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	7.29 ug/ml	413477	Perylene-d12	1133811

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[2.2]Paracyclophane	65737	001633-22-3	14.00
2	(+)-Diethyl L-tartrate	64291	000087-91-2	12.00
3	Benzene, cyclobutyl-	13888	004392-30-7	11.00
4	Benzenemethanamine, 2-methyl-	9527	000089-93-0	10.00
5	Naphthalene, 1,2,3,4-tetrahydro-2-p	65764	029422-13-7	10.00



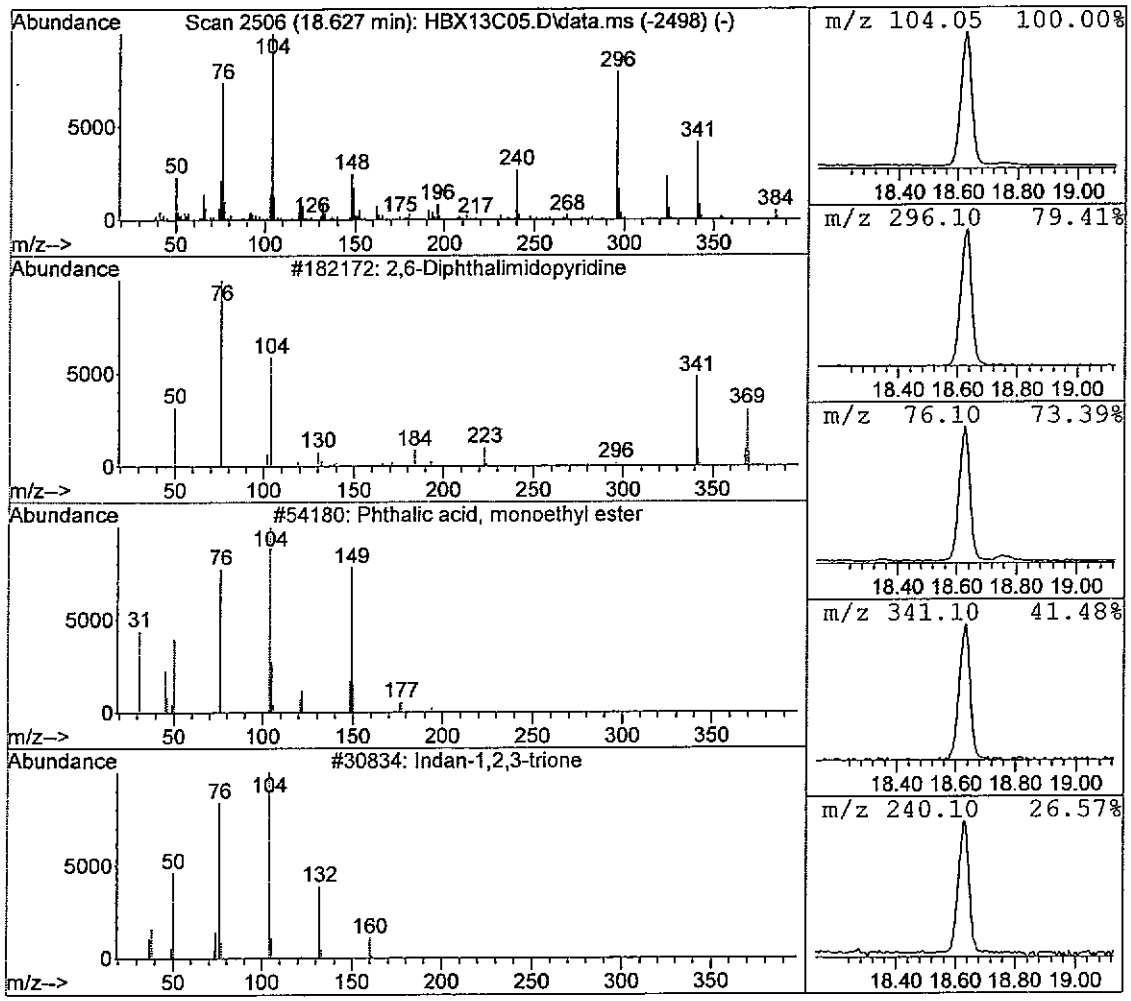
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX13C05.D Vial: 13
Acq On : 08/16/2011 20:54 Operator: RAH
Sample : 1122354005 E5KS1 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.63	7.67 ug/ml	402665	Perylene-d12	1049781

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Diphthalimidopyridine	182172	034067-90-8	40.00
2	Phthalic acid, monoethyl ester	54180	002306-33-4	40.00
3	Indan-1,2,3-trione	30834	000938-24-9	40.00
4	Phthalic anhydride	22800	000085-44-9	36.00
5	1,2-Benzenedicarboxylic acid	34830	000088-99-3	36.00



Library Search Compound Report

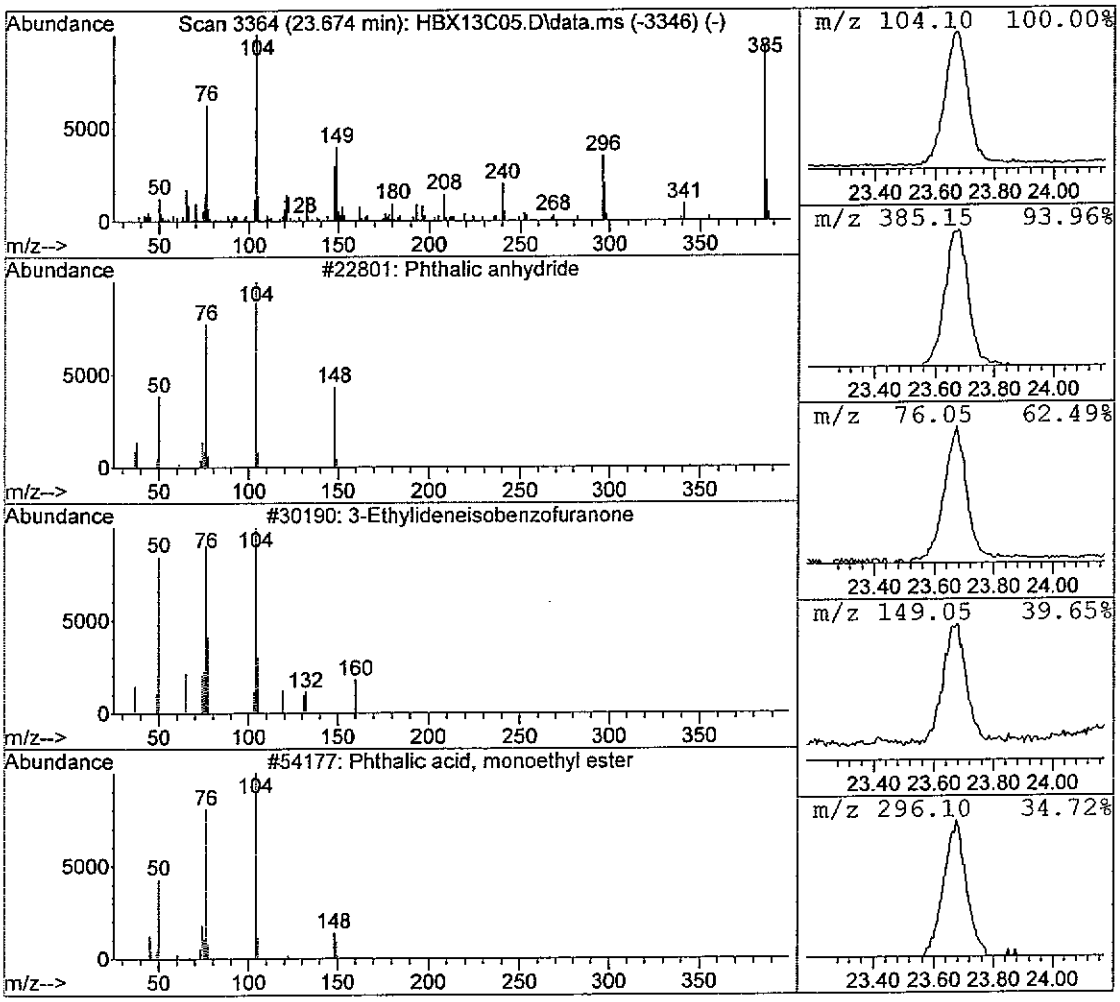
Data File : C:\msdchem\1\data\E5KR4\HBX13C05.D
Acq On : 08/16/2011 20:54
Sample : 1122354005 E5KS1
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 13
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.67	6.54 ug/ml	343280	Perylene-d12	1049781

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22801	000085-44-9	16.00
2	3-Ethylideneisobenzofuranone	30190	004767-63-9	12.00
3	Phthalic acid, monoethyl ester	54177	002306-33-4	12.00
4	Cyclopropanecarboxylic acid, 2-phen	51634	1000245-59-4	10.00
5	2-Pentanone, 5-phenyl-	31499	002235-83-8	10.00



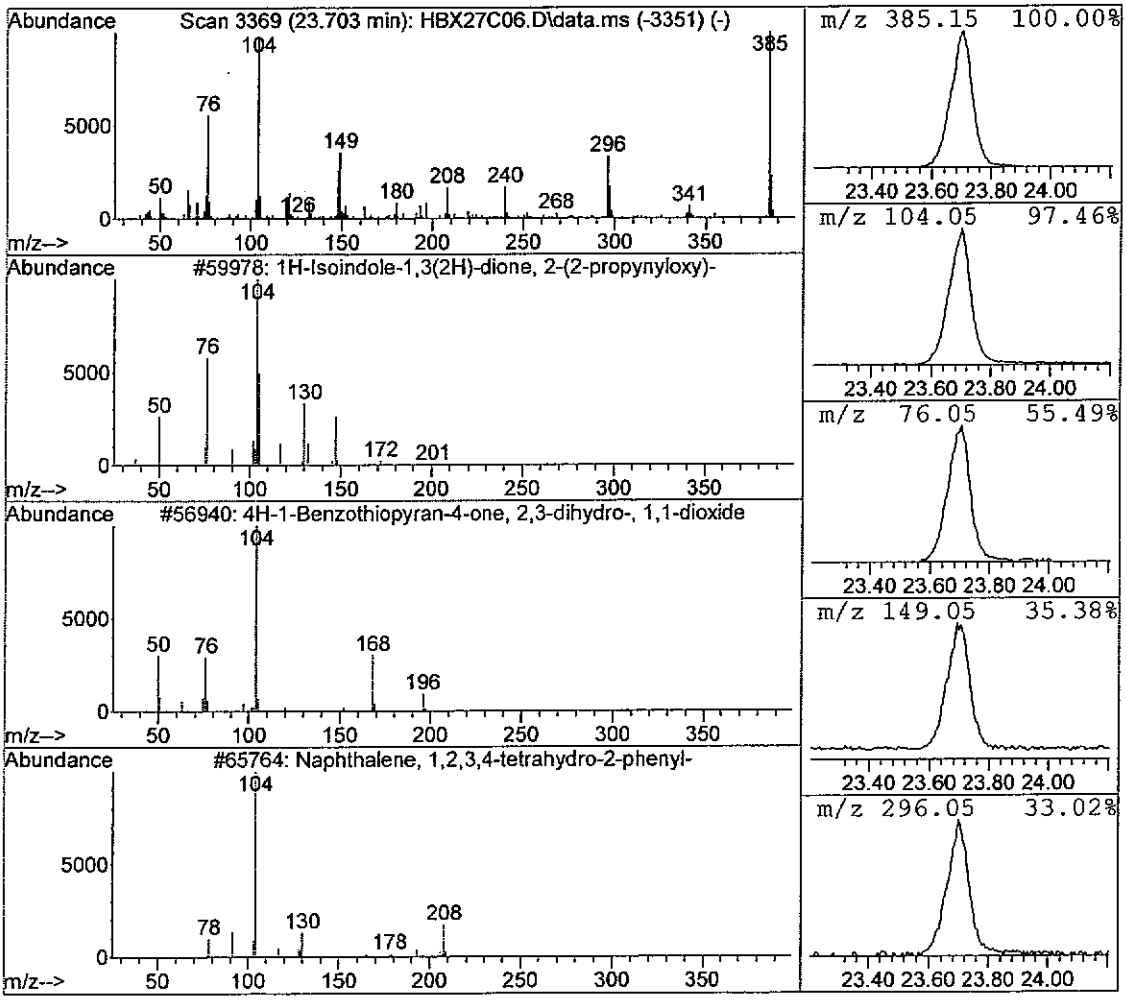
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX27C06.D Vial: 24
Acq On : 08/17/2011 05:09 Operator: RAH
Sample : 1122354006 E5KS2 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.70	19.61 ug/ml	629986	Perylene-d12	642636

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	59978	004616-63-1	16.00
2	4H-1-Benzothiopyran-4-one, 2,3-dihy	56940	019446-96-9	14.00
3	Naphthalene, 1,2,3,4-tetrahydro-2-p	65764	029422-13-7	14.00
4	[2.2]Paracyclophane	65736	001633-22-3	10.00
5	Indane-1,3(2H)-dione, 2-(2-methyl-3	164486	1000263-60-8	10.00



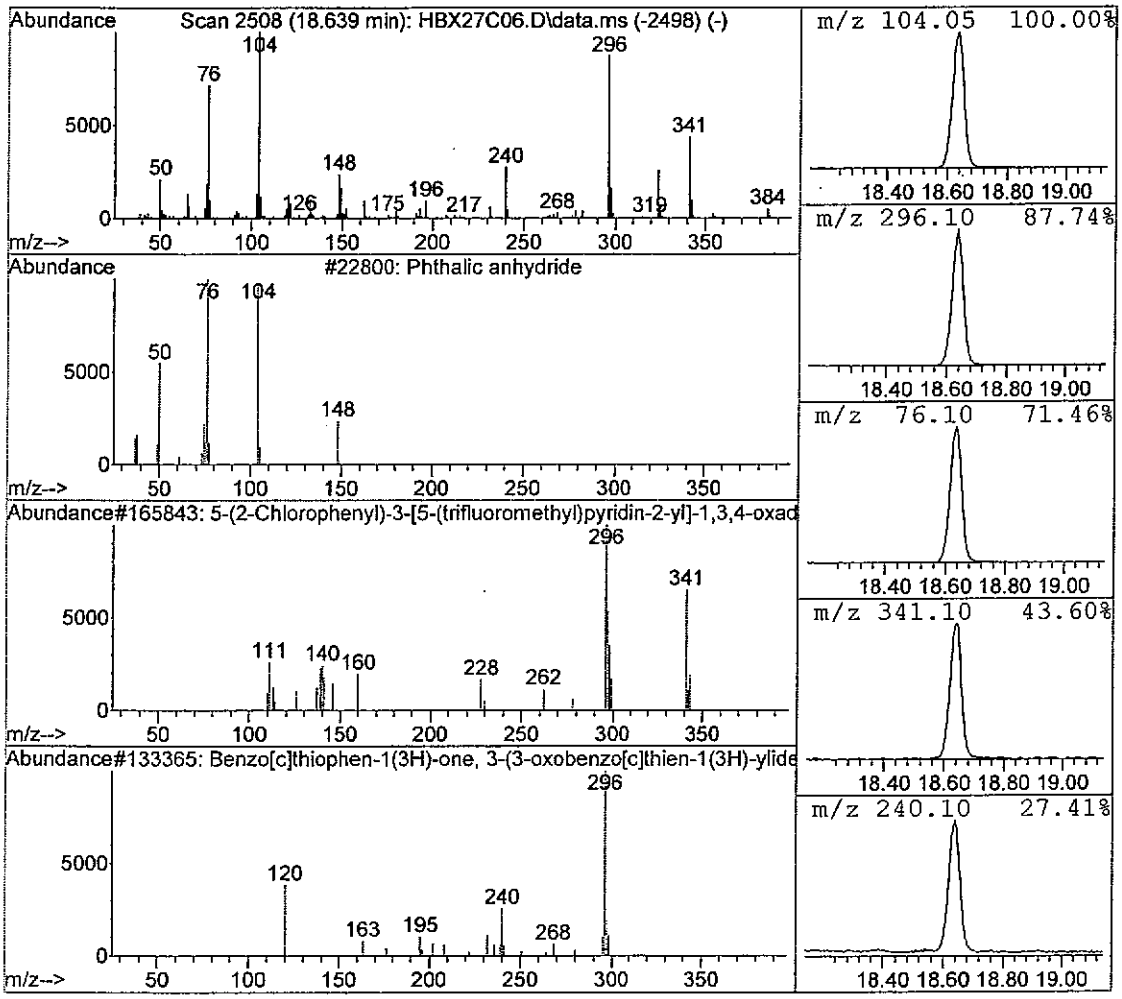
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX27C06.D Vial: 24
Acq On : 08/17/2011 05:09 Operator: RAH
Sample : 1122354006 E5KS2 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.64	24.08 ug/ml	773735	Perylene-d12	642636

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22800	000085-44-9	16.00
2	5-(2-Chlorophenyl)-3-[5-(trifluorom	165843	287979-09-3	16.00
3	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	133365	023667-32-5	12.00
4	Bithiophthalide	133363	032819-84-4	12.00
5	1-Methyl-2,4,6-tris(cyclopentyl)ben	133848	100325-74-4	10.00



Library Search Compound Report

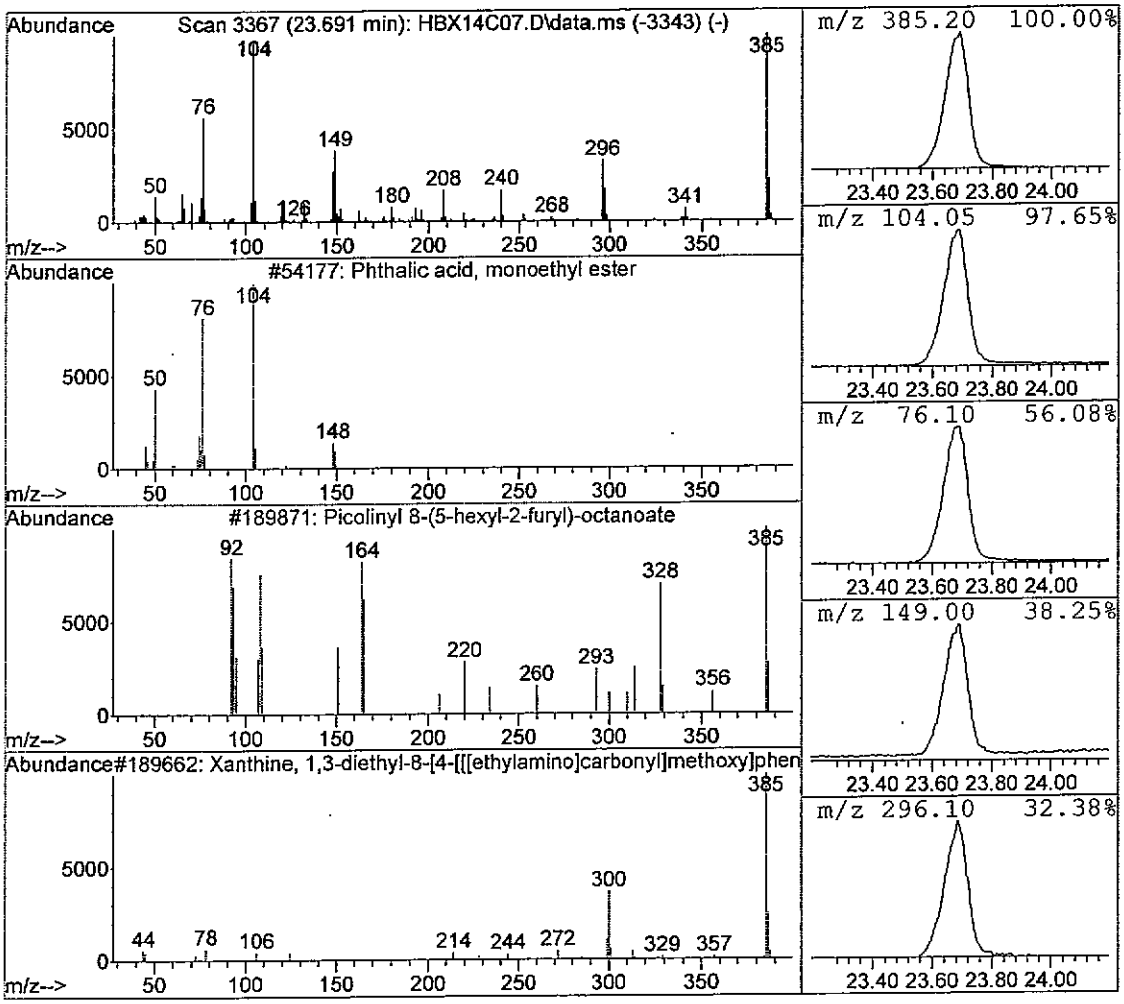
Data File : C:\msdchem\1\data\E5KR4\HBX14C07.D
Acq On : 08/16/2011 21:29
Sample : 1122354007 E5KS3
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 14
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	19.46 ug/ml	1075091	Perylene-d12	1104784

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic acid, monoethyl ester	54177	002306-33-4	16.00
2	Picolinyl 8-(5-hexyl-2-furyl)-octan	189871	1000335-93-0	14.00
3	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	189662	104576-48-9	14.00
4	[2.2]Paracyclophane	65737	001633-22-3	11.00
5	5-Cyano-6-hydroxy[3.3]paracyclophan	97125	1000306-67-9	10.00



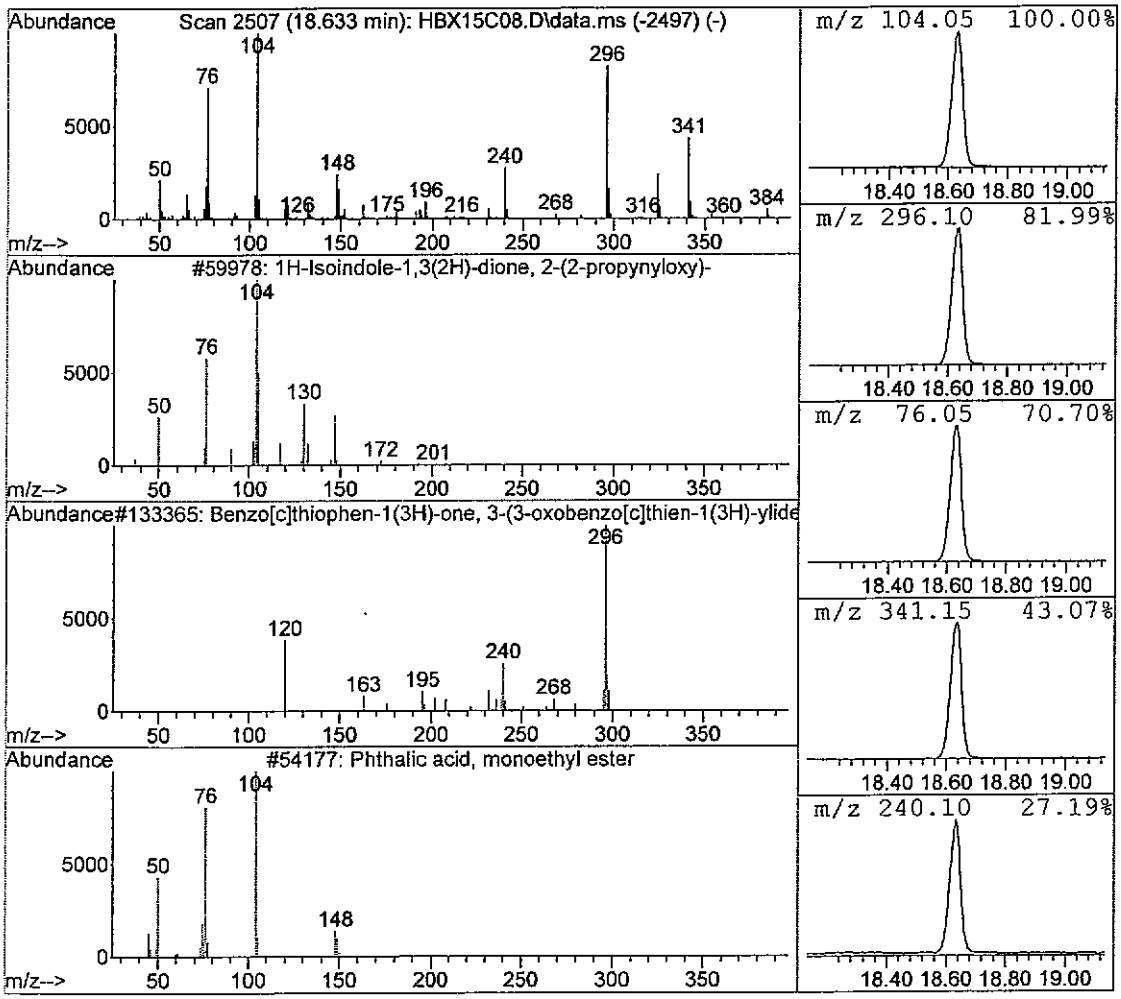
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX15C08.D Vial: 15
Acq On : 08/16/2011 22:05 Operator: RAH
Sample : 1122354008 E5KS4 Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.63	19.25 ug/ml	1003973	Perylene-d12	1043040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	59978	004616-63-1	22.00
2	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	133365	023667-32-5	22.00
3	Phthalic acid, monoethyl ester	54177	002306-33-4	16.00
4	1,2-Benzenedicarboxylic acid	34830	000088-99-3	16.00
5	4H-1-Benzothiopyran-4-one, 2,3-dihy	56940	019446-96-9	14.00



Library Search Compound Report

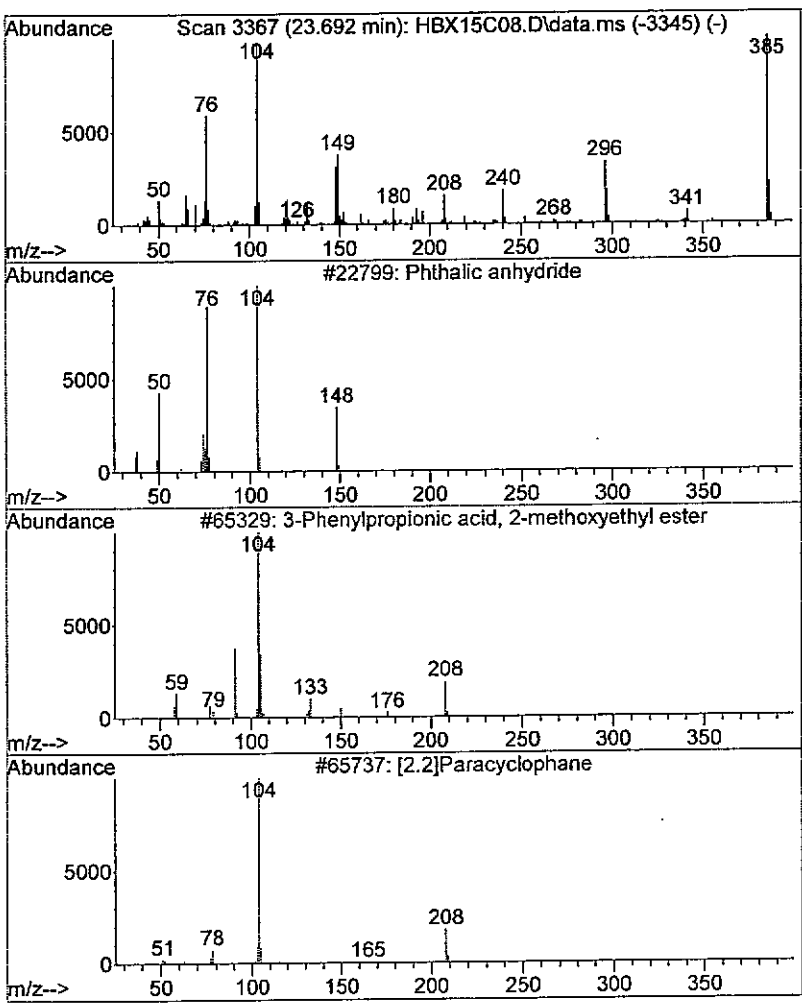
Data File : C:\msdchem\1\data\E5KR4\HBX15C08.D
Acq On : 08/16/2011 22:05
Sample : 1122354008 E5KS4
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

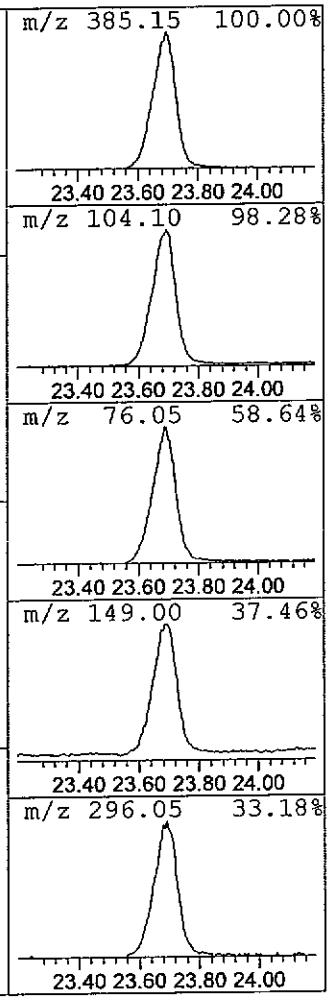
Vial: 15
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	19.70 ug/ml	1027405	Perylene-d12	1043040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22799	000085-44-9	25.00
2	3-Phenylpropionic acid, 2-methoxyet	65329	1000331-05-3	18.00
3	[2.2]Paracyclophane	65737	001633-22-3	18.00
4	1,2-Benzenedicarboxylic acid	34830	000088-99-3	12.00
5	Ninhydrin	43546	000485-47-2	12.00





Library Search Compound Report

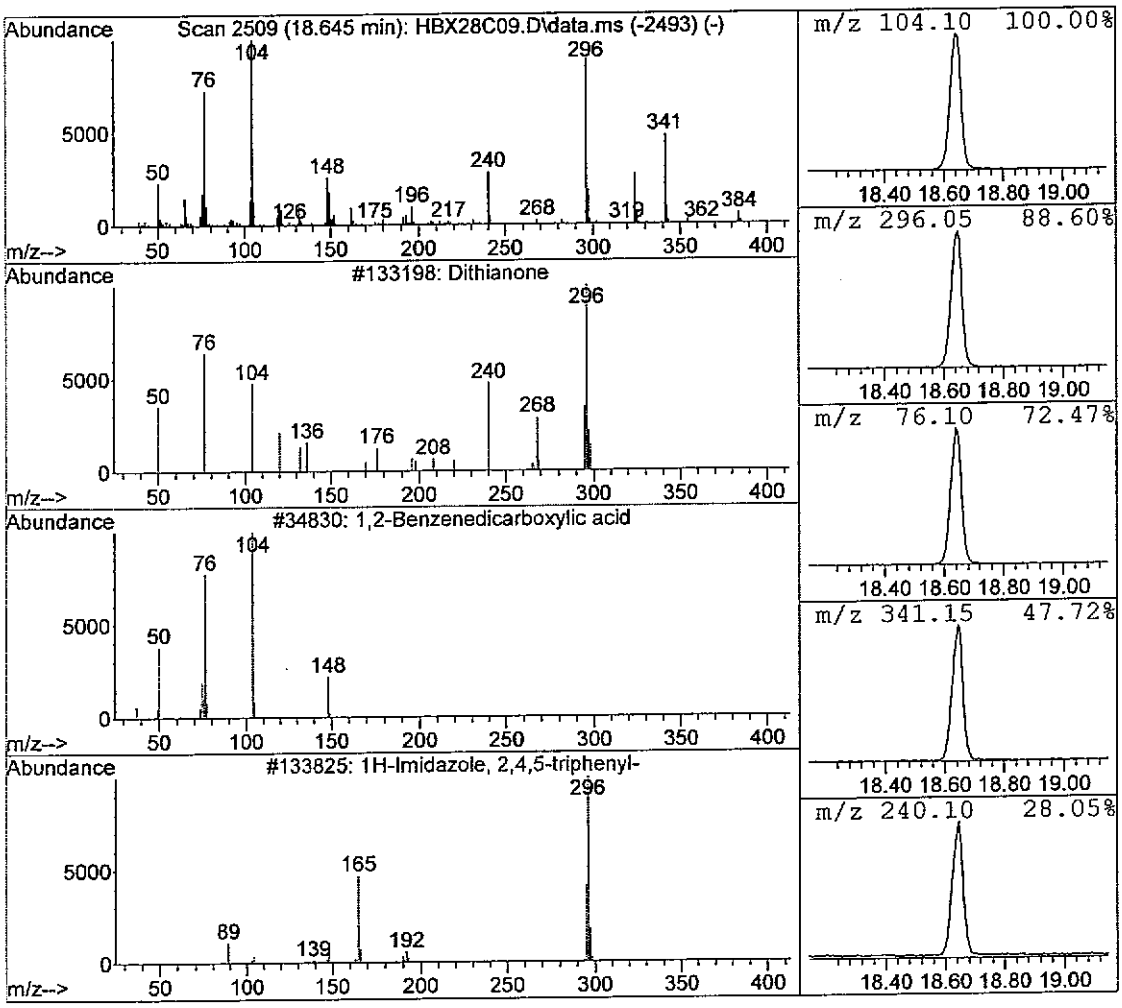
Data File : C:\msdchem\1\data\E5KR4\HBX28C09.D
Acq On : 08/17/2011 05:44
Sample : 1122354009 E5KS5
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 25
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.64	15.87 ug/ml	998872	Perylene-d12	1259107

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dithianone	133198	003347-22-6	35.00
2	1,2-Benzenedicarboxylic acid	34830	000088-99-3	16.00
3	1H-Imidazole, 2,4,5-triphenyl-	133825	000484-47-9	14.00
4	Bithiophthalide	133363	032819-84-4	12.00
5	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	59978	004616-63-1	12.00



Library Search Compound Report

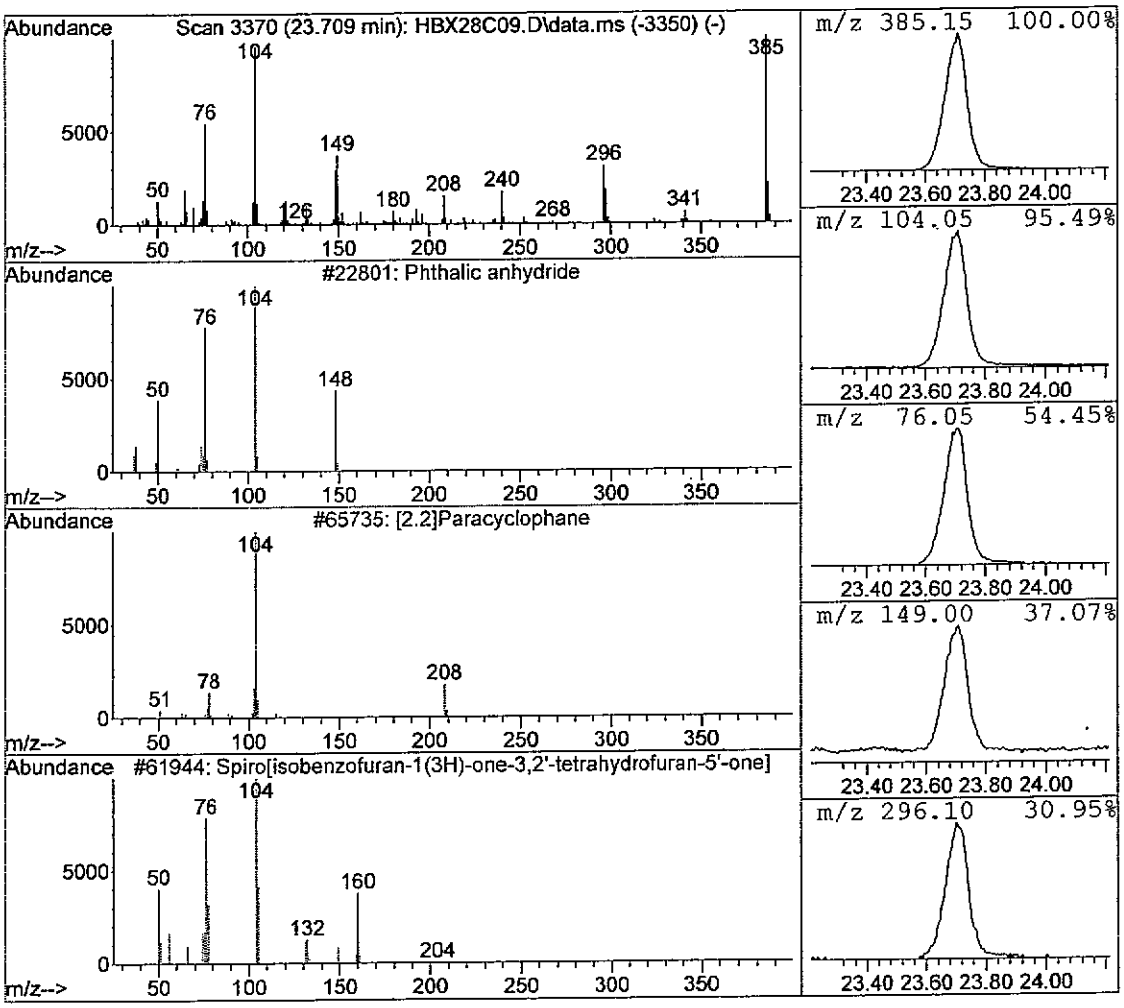
Data File : C:\msdchem\1\data\E5KR4\HBX28C09.D
Acq On : 08/17/2011 05:44
Sample : 1122354009 E5KS5
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 25
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.71	11.63 ug/ml	731929	Perylene-d12	1259107

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22801	000085-44-9	35.00
2	[2.2]Paracyclophane	65735	001633-22-3	18.00
3	Spiro[isobenzofuran-1(3H)-one-3,2'-	61944	054103-04-7	16.00
4	Phthalic acid, monoethyl ester	54177	002306-33-4	16.00
5	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	189662	104576-48-9	14.00



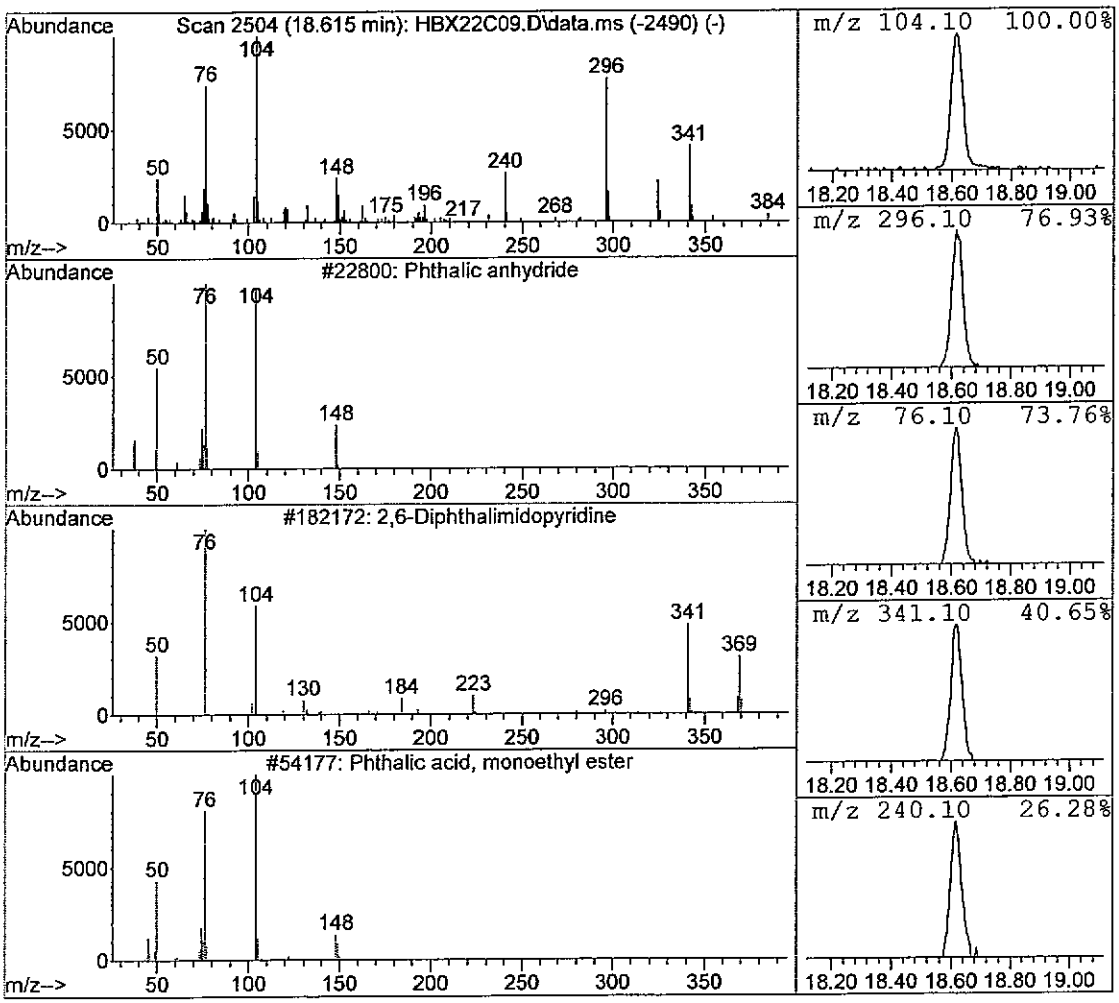
Library Search Compound Report

Data File : C:\msdchem\1\data\E5KR4\HBX22C09.D Vial: 20
Acq On : 08/17/2011 02:13 Operator: RAH
Sample : 1122354009DL E5KS5DL (5) Inst : 5975-H
Misc : . SOIL SOMO Injection volume : 1uL
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	3.41 ug/ml	177100	Perylene-d12	1038454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	22800	000085-44-9	42.00
2	2,6-Diphthalimidopyridine	182172	034067-90-8	40.00
3	Phthalic acid, monoethyl ester	54177	002306-33-4	40.00
4	2-Formyl-1-methoxy-6-phthalimidomet	175426	1000214-58-4	38.00
5	1,2-Benzenedicarboxylic acid	34830	000088-99-3	36.00



Library Search Compound Report

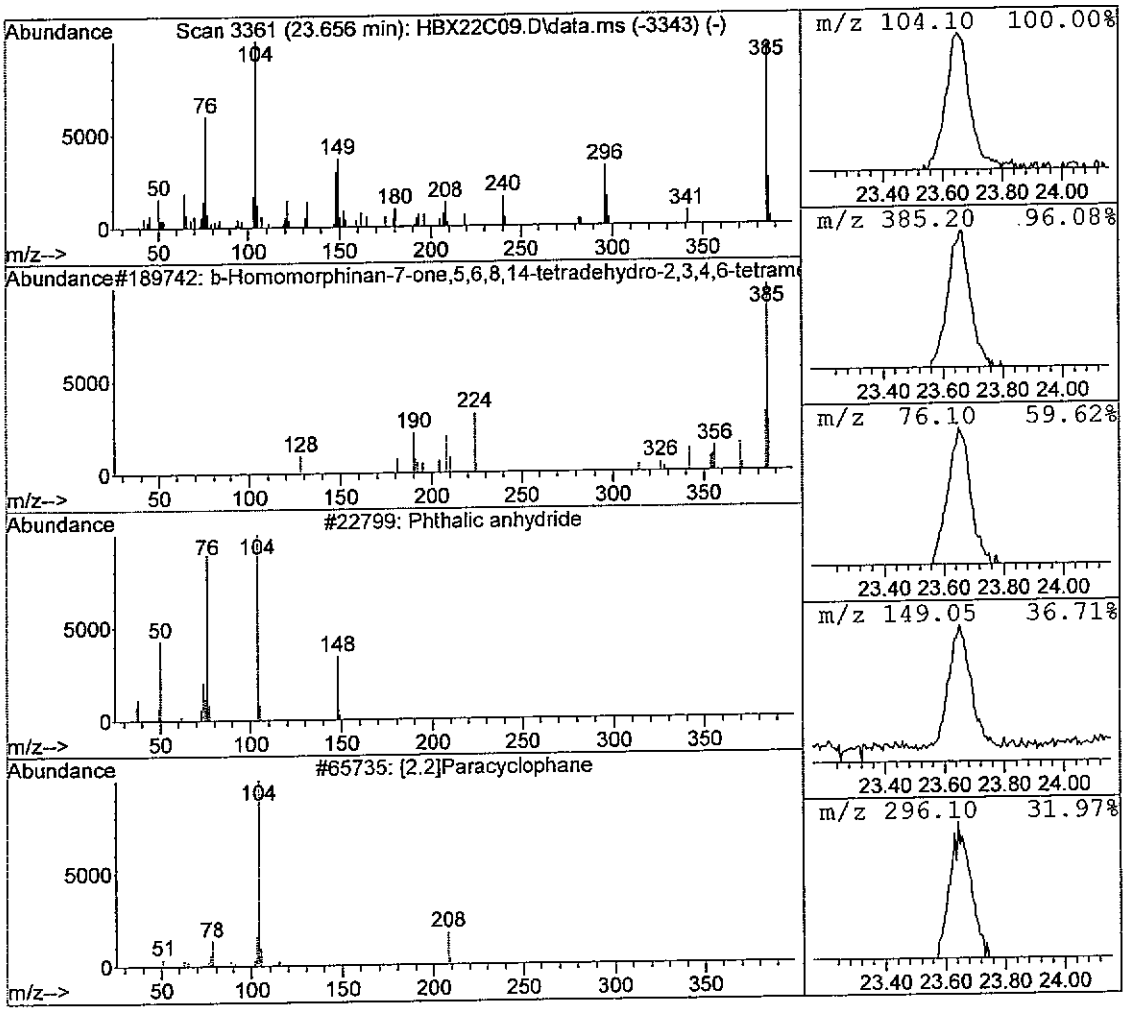
Data File : C:\msdchem\1\data\E5KR4\HBX22C09.D
Acq On : 08/17/2011 02:13
Sample : 1122354009DL E5KS5DL (5)
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 20
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.66	3.05 ug/ml	158351	Perylene-d12	1038454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	b-Homomorphinan-7-one,5,6,8,14-tetr	189742	1000149-06-7	27.00
2	Phthalic anhydride	22799	000085-44-9	25.00
3	[2.2]Paracyclophane	65735	001633-22-3	18.00
4	Silane, dimethylisohexyloxyhexadecy	195802	1000346-94-5	14.00
5	dylchicine, 3-demethyl-	189711	007336-34-7	14.00



: 00984

Library Search Compound Report

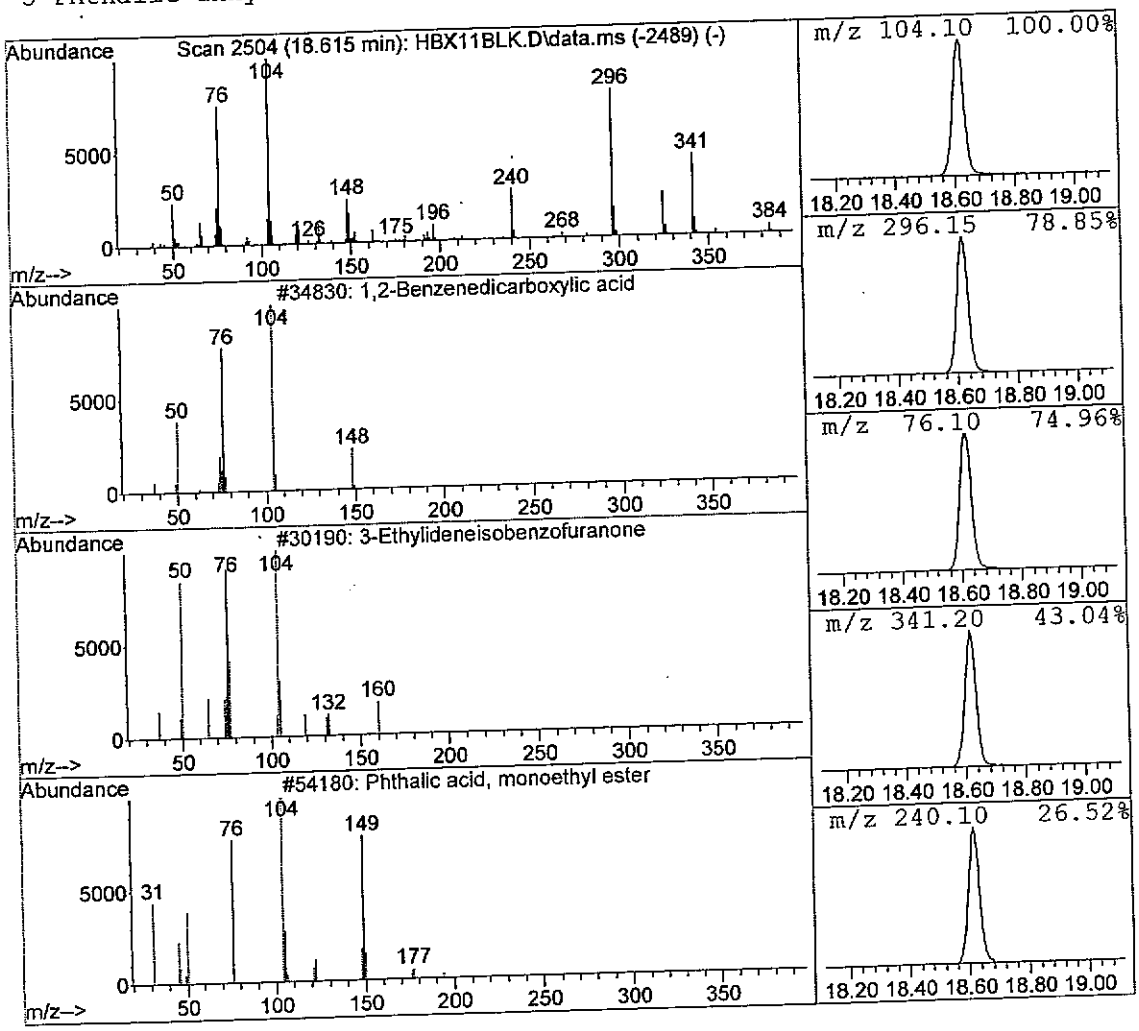
Data File : C:\msdchem\1\data\E5KR4\HBX11BLK.D
Acq On : 08/16/2011 19:44
Sample : 232532 SBLK32
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 11
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	11.85 ug/ml	538016	Perylene-d12	908369

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid	34830	000088-99-3	42.00
2	3-Ethylideneisobenzofuranone	30190	004767-63-9	40.00
3	Phthalic acid, monoethyl ester	54180	002306-33-4	40.00
4	2,6-Diphthalimidopyridine	182172	034067-90-8	40.00
5	Phthalic anhydride	22800	000085-44-9	36.00



Fri Aug 19 09:40:17 2011

Library Search Compound Report

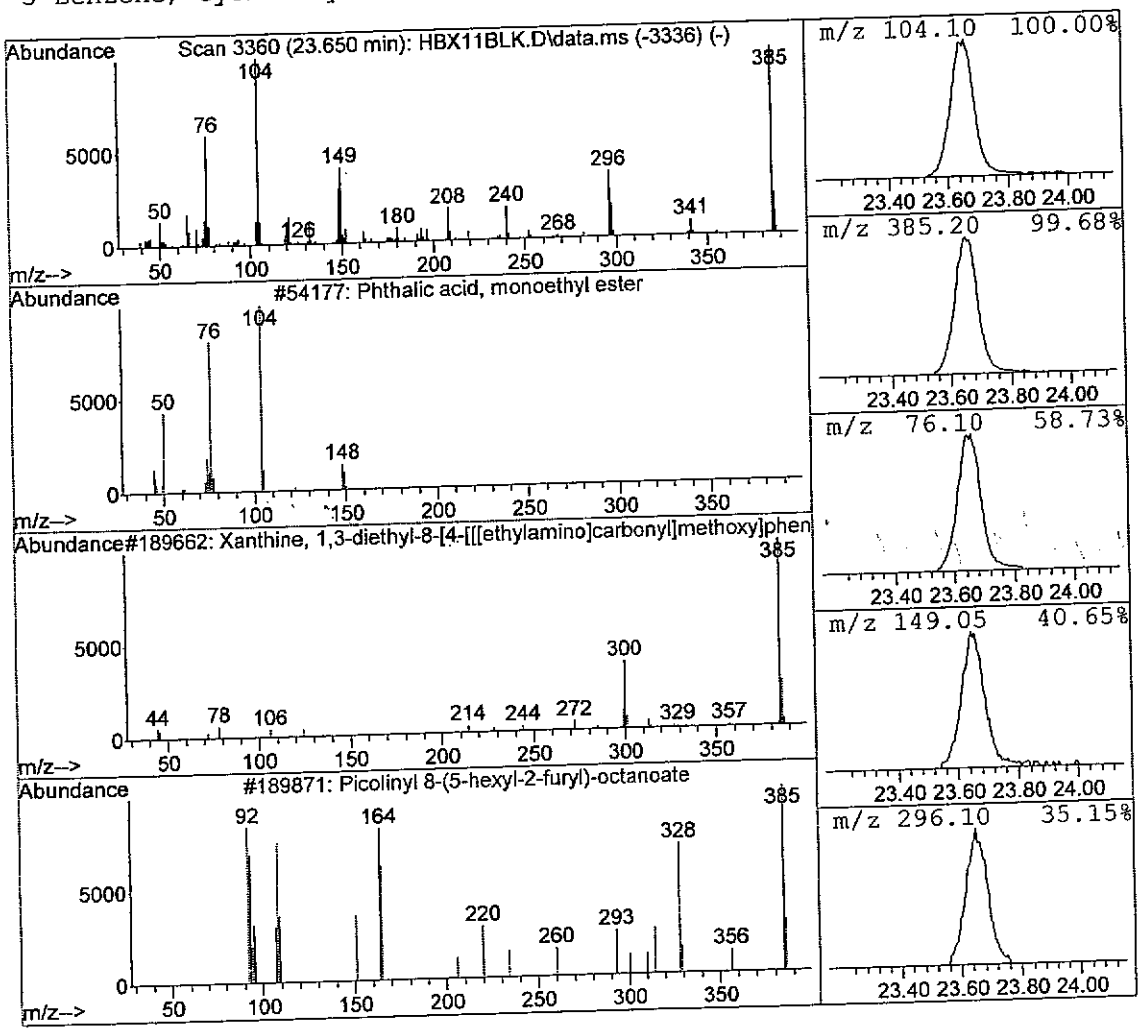
Data File : C:\msdchem\1\data\E5KR4\HBX11BLK.D
Acq On : 08/16/2011 19:44
Sample : 232532 SBLK32
Misc : . SOIL SOMO
MS Integration Params: RTEINT.P

Vial: 11
Operator: RAH
Inst : 5975-H
Injection volume : 1uL

Method : C:\msdchem\1\methods\SOM01.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST08.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.65	11.74 ug/ml	533196	Perylene-d12	908369

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic acid, monoethyl ester	54177	002306-33-4	16.00
2	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	189662	104576-48-9	14.00
3	Picolinyl 8-(5-hexyl-2-furyl)-octan	189871	1000335-93-0	14.00
4	Phthalic anhydride	22801	000085-44-9	12.00
5	Benzene, cyclobutyl-	13888	004392-30-7	11.00



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E5KR4 CERCLIS No: OHD980905251

Case No: 41647 Site Name/Location: Clyde Dump (OH)

Contractor or EPA Lab: MS LAB Data User: OEPA

No. of Samples: 13 Date Sampled or Date Received: 2 Sept 2011

Have Chain-of-Custody records been received? Yes ✓ No_____
Have traffic reports or packing lists been received? Yes ✓ 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 ✓ No____
No of samples claimed: 13 No. of samples received:_____

Received by: [illegible] Date: 2 Sept 2011

Received by LSSS: [illegible] Date: 2 Sept 2011

Review started: 9/13/11 Reviewer Signature: [illegible]

Total time spent on review: 37.1 Date review completed: 9/22/11

Copied by: A. C. Harvey Date: Sept 30, 2011

Mailed to user by: [illegible] Date: 3 Oct 2011

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 [ ] T if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] T if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] T if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] T if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date:_____

Controlled Document

ESAT5.315.00040
ack
9-22-11

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 9/12/11

SUBJECT: **Review of Data**
Received for review on 9/2/11

FROM: **Timothy Prendiville, Supervisor, Chief (SR-6J)**
Superfund Contract Management Section

TO: **Data User:** OEPA
Email address: victoria.sigler@epa.state.oh.us

LEVEL 3 DATA VALIDATION

We have reviewed the data for the following case:

SITE NAME: Clyde Dump (OH)

CASE NUMBER: 41647 **SDG NUMBER:** ME5KR4

Number and Type of Samples: 13 soils

Sample Numbers: ME5KR4-R9, S0-S6

Laboratory: Chemtech **Hrs. for Review:** 11.0
+1 DRC 9-21-11

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Thirteen (13) soil samples, numbered ME5KR4-R9, S0-S6, were collected on August 9-10, 2011. The lab received the samples on August 11, 2011 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ISM01.2 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.

No raw data for percent solids was provided. Percent solids data were presented on a computer generated spreadsheet.

The conversion calculation formula provided in the laboratory case narrative does not include unit values for several of the variables or multipliers within the equation. Reported sample results are calculated correctly.

1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

No defects were found for the calibrations.

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 "J+".

Silver
ME5KR5, ME5KR6, ME5KS0, ME5KS1, ME5KS2, ME5KS4, ME5KS6

Sodium
ME5KR4, ME5KR5, ME5KR6, ME5KS0, ME5KS4, ME5KS6

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
ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

Beryllium
ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

Copper
ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

Lead
ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

Manganese

ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

Vanadium

ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

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".

Chromium

ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. No post spike was required.

Hits are qualified "J-" and non-detects are qualified "UJ".

Silver

ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

Region 5 uses 35%RPD control criteria for soil samples. No problems were found for duplicate RPD.

The following inorganic samples are associated with duplicate results which did not meet absolute difference (AD) primary criteria. Region 5 uses 2xCRQL difference criteria for soil samples.

Hits are qualified "J" and non-detects are qualified "UJ".

Arsenic

ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

No samples were identified as field duplicates.

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".

Chromium
ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

Nickel
ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

Potassium
ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

No defects were found for the ICS samples.

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
ME5KR4, ME5KR5, ME5KR6, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS6

Beryllium
ME5KS6

Cadmium
ME5KS6

Mercury
ME5KR4, ME5KR5, ME5KR6, ME5KS2, ME5KS3, ME5KS6

Selenium
ME5KR4, ME5KR5, ME5KR6, ME5KR7, ME5KR8, ME5KR9, ME5KS0, ME5KS1, ME5KS2, ME5KS3, ME5KS4, ME5KS5, ME5KS6

Thallium
ME5KR4, ME5KR5, ME5KR7, ME5KR8, ME5KR9, ME5KS2, ME5KS4, ME5KS5

Cyanide
ME5KR7, ME5KR8, ME5KR9, ME5KS5

All data, except those qualified above, are acceptable.

Reviewed by: Stephen Connet
Date: September 12, 2011

EXES ISM01.2 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.

Sample Summary Report

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR4	Method:	ICP_AES	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-1	pH:	2	Sample Date:	08092011	Sample Time:	12:35:00
% Moisture :				% Solids :	88.4		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	8230	mg/kg	1			Yes	S2BVE
Antimony	0.90	mg/kg	1	J	J	Yes	S2BVE
Arsenic	13.6	mg/kg	1		J	Yes	S2BVE
Barium	97.5	mg/kg	1			Yes	S2BVE
Beryllium	0.86	mg/kg	1		J	Yes	S2BVE
Cadmium	0.58	mg/kg	1			Yes	S2BVE
Calcium	53900	mg/kg	10			Yes	S2BVE
Chromium	14.3	mg/kg	1		J-	Yes	S2BVE
Cobalt	16.9	mg/kg	1			Yes	S2BVE
Copper	23.1	mg/kg	1		J	Yes	S2BVE
Iron	37800	mg/kg	10			Yes	S2BVE
Lead	12.9	mg/kg	1		J	Yes	S2BVE
Magnesium	11500	mg/kg	1			Yes	S2BVE
Manganese	771	mg/kg	1		J	Yes	S2BVE
Nickel	39.0	mg/kg	1		J	Yes	S2BVE
Potassium	1520	mg/kg	1		J	Yes	S2BVE
Selenium	0.86	mg/kg	1	J	J	Yes	S2BVE
Silver	1.0	mg/kg	1		J-	Yes	S2BVE
Sodium	398	mg/kg	1	J	U	Yes	S2BVE
Thallium	0.86	mg/kg	1	J	J	Yes	S2BVE
Vanadium	15.5	mg/kg	1		J	Yes	S2BVE
Zinc	77.9	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR4	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-1	pH:	2	Sample Date:	08092011	Sample Time:	12:35:00
% Moisture :				% Solids :	88.4		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.57	mg/kg	1	U	U	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR4	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-1	pH:	2	Sample Date:	08092011	Sample Time:	12:35:00
% Moisture :				% Solids :	88.4		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.016	mg/kg	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR5	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-2	pH:	2	Sample Date:	08092011	Sample Time:	15:00:00
% Moisture :				% Solids :	84.8		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.019	mg/kg	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KR5	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-2	pH: 2	Sample Date: 08092011	Sample Time: 15:00:00
% Moisture :		% Solids : 84.8	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	9990	mg/kg	1			Yes	S2BVE
Antimony	0.80	mg/kg	1	J	J	Yes	S2BVE
Arsenic	7.5	mg/kg	1		J	Yes	S2BVE
Barium	107	mg/kg	1			Yes	S2BVE
Beryllium	0.69	mg/kg	1		J	Yes	S2BVE
Cadmium	0.54	mg/kg	1			Yes	S2BVE
Calcium	74700	mg/kg	10			Yes	S2BVE
Chromium	17.9	mg/kg	1		J-	Yes	S2BVE
Cobalt	13.6	mg/kg	1			Yes	S2BVE
Copper	22.6	mg/kg	1		J	Yes	S2BVE
Iron	20200	mg/kg	1			Yes	S2BVE
Lead	11.0	mg/kg	1		J	Yes	S2BVE
Magnesium	13400	mg/kg	1			Yes	S2BVE
Manganese	386	mg/kg	1		J	Yes	S2BVE
Nickel	40.9	mg/kg	1		J	Yes	S2BVE
Potassium	1980	mg/kg	1		J	Yes	S2BVE
Selenium	1.2	mg/kg	1	J	J	Yes	S2BVE
Silver	0.81	mg/kg	1	J	UJ	Yes	S2BVE
Sodium	404	mg/kg	1	J	U	Yes	S2BVE
Thallium	0.63	mg/kg	1	J	J	Yes	S2BVE
Vanadium	20.1	mg/kg	1		J	Yes	S2BVE
Zinc	70.4	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR5	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-2	pH:	2	Sample Date:	08092011	Sample Time:	15:00:00
% Moisture :				% Solids :	84.8		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.59	mg/kg	1	U	U	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR6	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-3	pH:	2	Sample Date:	08092011	Sample Time:	16:40:00
% Moisture :				% Solids :	79.7		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.63	mg/kg	1	U	U	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR6	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-3	pH:	2	Sample Date:	08092011	Sample Time:	16:40:00
% Moisture :				% Solids :	79.7		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.041	mg/kg	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KR6	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-3	pH: 2	Sample Date: 08092011	Sample Time: 16:40:00
% Moisture :		% Solids : 79.7	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	9780	mg/kg	1			Yes	S2BVE
Antimony	0.89	mg/kg	1	J	J	Yes	S2BVE
Arsenic	8.8	mg/kg	1		J	Yes	S2BVE
Barium	59.2	mg/kg	1			Yes	S2BVE
Beryllium	0.72	mg/kg	1		J	Yes	S2BVE
Cadmium	0.63	mg/kg	1			Yes	S2BVE
Calcium	14900	mg/kg	1			Yes	S2BVE
Chromium	17.1	mg/kg	1		J-	Yes	S2BVE
Cobalt	20.6	mg/kg	1			Yes	S2BVE
Copper	16.5	mg/kg	1		J	Yes	S2BVE
Iron	22000	mg/kg	1			Yes	S2BVE
Lead	18.5	mg/kg	1		J	Yes	S2BVE
Magnesium	4290	mg/kg	1			Yes	S2BVE
Manganese	375	mg/kg	1		J	Yes	S2BVE
Nickel	24.5	mg/kg	1		J	Yes	S2BVE
Potassium	1130	mg/kg	1		J	Yes	S2BVE
Selenium	1.3	mg/kg	1	J	J	Yes	S2BVE
Silver	0.92	mg/kg	1	J	UJ	Yes	S2BVE
Sodium	458	mg/kg	1	J	U	Yes	S2BVE
Thallium	2.3	mg/kg	1	U	U	Yes	S2BVE
Vanadium	20.6	mg/kg	1		J	Yes	S2BVE
Zinc	76.2	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR7	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-4	pH:	2	Sample Date:	08102011	Sample Time:	09:45:00
% Moisture :				% Solids :	80.2		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.27	mg/kg	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KR7	Method: CN	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-4	pH: 2	Sample Date: 08102011	Sample Time: 09:45:00
% Moisture :		% Solids : 80.2	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.21	mg/kg	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KR7	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-4	pH: 2	Sample Date: 08102011	Sample Time: 09:45:00
% Moisture :		% Solids : 80.2	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	8110	mg/kg	1			Yes	S2BVE
Antimony	9.9	mg/kg	1		J	Yes	S2BVE
Arsenic	16.7	mg/kg	1		J	Yes	S2BVE
Barium	2300	mg/kg	10			Yes	S2BVE
Beryllium	1.0	mg/kg	1		J	Yes	S2BVE
Cadmium	8.1	mg/kg	1			Yes	S2BVE
Calcium	37400	mg/kg	1			Yes	S2BVE
Chromium	184	mg/kg	1		J-	Yes	S2BVE
Cobalt	204	mg/kg	1			Yes	S2BVE
Copper	429	mg/kg	1		J	Yes	S2BVE
Iron	42600	mg/kg	10			Yes	S2BVE
Lead	646	mg/kg	1		J	Yes	S2BVE
Magnesium	11100	mg/kg	1			Yes	S2BVE
Manganese	640	mg/kg	1		J	Yes	S2BVE
Nickel	233	mg/kg	1		J	Yes	S2BVE
Potassium	2540	mg/kg	1		J	Yes	S2BVE
Selenium	1.3	mg/kg	1	J	J	Yes	S2BVE
Silver	7.3	mg/kg	1		J-	Yes	S2BVE
Sodium	4400	mg/kg	1			Yes	S2BVE
Thallium	0.37	mg/kg	1	J	J	Yes	S2BVE
Vanadium	15.6	mg/kg	1		J	Yes	S2BVE
Zinc	1670	mg/kg	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KR8	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-5	pH: 2	Sample Date: 08102011	Sample Time: 10:00:00
% Moisture :		% Solids : 83.2	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	6660	mg/kg	1			Yes	S2BVE
Antimony	5.7	mg/kg	1		J	Yes	S2BVE
Arsenic	16.1	mg/kg	1		J	Yes	S2BVE
Barium	1110	mg/kg	1			Yes	S2BVE
Beryllium	0.88	mg/kg	1		J	Yes	S2BVE
Cadmium	3.4	mg/kg	1			Yes	S2BVE
Calcium	24300	mg/kg	1			Yes	S2BVE
Chromium	48.2	mg/kg	1		J-	Yes	S2BVE
Cobalt	111	mg/kg	1			Yes	S2BVE
Copper	113	mg/kg	1		J	Yes	S2BVE
Iron	41100	mg/kg	10			Yes	S2BVE
Lead	188	mg/kg	1		J	Yes	S2BVE
Magnesium	8030	mg/kg	1			Yes	S2BVE
Manganese	468	mg/kg	1		J	Yes	S2BVE
Nickel	128	mg/kg	1		J	Yes	S2BVE
Potassium	1500	mg/kg	1		J	Yes	S2BVE
Selenium	0.93	mg/kg	1	J	J	Yes	S2BVE
Silver	3.9	mg/kg	1		J-	Yes	S2BVE
Sodium	767	mg/kg	1			Yes	S2BVE
Thallium	0.35	mg/kg	1	J	J	Yes	S2BVE
Vanadium	12.8	mg/kg	1		J	Yes	S2BVE
Zinc	558	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR8	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-5	pH:	2	Sample Date:	08102011	Sample Time:	10:00:00
% Moisture :				% Solids :	83.2		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.33	mg/kg	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR8	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-5	pH:	2	Sample Date:	08102011	Sample Time:	10:00:00
% Moisture :				% Solids :	83.2		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.29	mg/kg	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KR9	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-6	pH: 2	Sample Date: 08092011	Sample Time: 10:50:00
% Moisture :		% Solids : 78.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	5600	mg/kg	1			Yes	S2BVE
Antimony	10.6	mg/kg	1		J	Yes	S2BVE
Arsenic	7.7	mg/kg	1		J	Yes	S2BVE
Barium	308	mg/kg	1			Yes	S2BVE
Beryllium	0.63	mg/kg	1		J	Yes	S2BVE
Cadmium	5.6	mg/kg	1			Yes	S2BVE
Calcium	9340	mg/kg	1			Yes	S2BVE
Chromium	43.0	mg/kg	1		J-	Yes	S2BVE
Cobalt	19.7	mg/kg	1			Yes	S2BVE
Copper	86.3	mg/kg	1		J	Yes	S2BVE
Iron	25800	mg/kg	1			Yes	S2BVE
Lead	402	mg/kg	1		J	Yes	S2BVE
Magnesium	3780	mg/kg	1			Yes	S2BVE
Manganese	211	mg/kg	1		J	Yes	S2BVE
Nickel	56.2	mg/kg	1		J	Yes	S2BVE
Potassium	857	mg/kg	1		J	Yes	S2BVE
Selenium	1.8	mg/kg	1	J	J	Yes	S2BVE
Silver	1.7	mg/kg	1		J-	Yes	S2BVE
Sodium	1440	mg/kg	1			Yes	S2BVE
Thallium	0.26	mg/kg	1	J	J	Yes	S2BVE
Vanadium	29.0	mg/kg	1		J	Yes	S2BVE
Zinc	1210	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR9	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-6	pH:	2	Sample Date:	08092011	Sample Time:	10:50:00
% Moisture :				% Solids :	78.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.26	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KR9	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-6	pH:	2	Sample Date:	08092011	Sample Time:	10:50:00
% Moisture :				% Solids :	78.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.39	mg/kg	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS0	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-7	pH:	2	Sample Date:	08102011	Sample Time:	11:10:00
% Moisture :				% Solids :	90.1		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.55	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KS0	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-7	pH: 2	Sample Date: 08102011	Sample Time: 11:10:00
% Moisture :		% Solids : 90.1	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	4960	mg/kg	1			Yes	S2BVE
Antimony	1.1	mg/kg	1	J	J	Yes	S2BVE
Arsenic	6.5	mg/kg	1		J	Yes	S2BVE
Barium	48.0	mg/kg	1			Yes	S2BVE
Beryllium	0.45	mg/kg	1		J	Yes	S2BVE
Cadmium	0.90	mg/kg	1			Yes	S2BVE
Calcium	9370	mg/kg	1			Yes	S2BVE
Chromium	11.0	mg/kg	1		J-	Yes	S2BVE
Cobalt	7.7	mg/kg	1			Yes	S2BVE
Copper	26.7	mg/kg	1		J	Yes	S2BVE
Iron	14500	mg/kg	1			Yes	S2BVE
Lead	44.8	mg/kg	1		J	Yes	S2BVE
Magnesium	3350	mg/kg	1			Yes	S2BVE
Manganese	175	mg/kg	1		J	Yes	S2BVE
Nickel	21.0	mg/kg	1		J	Yes	S2BVE
Potassium	827	mg/kg	1		J	Yes	S2BVE
Selenium	0.59	mg/kg	1	J	J	Yes	S2BVE
Silver	0.85	mg/kg	1	J	UJ	Yes	S2BVE
Sodium	424	mg/kg	1	J	U	Yes	S2BVE
Thallium	2.1	mg/kg	1	U	U	Yes	S2BVE
Vanadium	10.9	mg/kg	1		J	Yes	S2BVE
Zinc	121	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS0	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-7	pH:	2	Sample Date:	08102011	Sample Time:	11:10:00
% Moisture :				% Solids :	90.1		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.11	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS1	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-8	pH:	2	Sample Date:	08102011	Sample Time:	13:10:00
% Moisture :				% Solids :	77.6		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.64	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KS1	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-8	pH: 2	Sample Date: 08102011	Sample Time: 13:10:00
% Moisture :		% Solids : 77.6	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	6010	mg/kg	1			Yes	S2BVE
Antimony	1.5	mg/kg	1	J	J	Yes	S2BVE
Arsenic	6.5	mg/kg	1		J	Yes	S2BVE
Barium	47.1	mg/kg	1			Yes	S2BVE
Beryllium	0.50	mg/kg	1		J	Yes	S2BVE
Cadmium	0.81	mg/kg	1			Yes	S2BVE
Calcium	6400	mg/kg	1			Yes	S2BVE
Chromium	11.0	mg/kg	1		J-	Yes	S2BVE
Cobalt	7.3	mg/kg	1			Yes	S2BVE
Copper	32.2	mg/kg	1		J	Yes	S2BVE
Iron	15800	mg/kg	1			Yes	S2BVE
Lead	61.2	mg/kg	1		J	Yes	S2BVE
Magnesium	3390	mg/kg	1			Yes	S2BVE
Manganese	128	mg/kg	1		J	Yes	S2BVE
Nickel	21.4	mg/kg	1		J	Yes	S2BVE
Potassium	1500	mg/kg	1		J	Yes	S2BVE
Selenium	1.1	mg/kg	1	J	J	Yes	S2BVE
Silver	0.94	mg/kg	1	J	UJ	Yes	S2BVE
Sodium	1390	mg/kg	1			Yes	S2BVE
Thallium	2.4	mg/kg	1	U	U	Yes	S2BVE
Vanadium	11.9	mg/kg	1		J	Yes	S2BVE
Zinc	163	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS1	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-8	pH:	2	Sample Date:	08102011	Sample Time:	13:10:00
% Moisture :				% Solids :	77.6		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.28	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS2	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-9	pH:	2	Sample Date:	08102011	Sample Time:	13:20:00
% Moisture :				% Solids :	90		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.56	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KS2	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-9	pH: 2	Sample Date: 08102011	Sample Time: 13:20:00
% Moisture :		% Solids : 90	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	6310	mg/kg	1			Yes	S2BVE
Antimony	1.9	mg/kg	1	J	J	Yes	S2BVE
Arsenic	10.1	mg/kg	1		J	Yes	S2BVE
Barium	64.9	mg/kg	1			Yes	S2BVE
Beryllium	0.57	mg/kg	1		J	Yes	S2BVE
Cadmium	1.6	mg/kg	1			Yes	S2BVE
Calcium	36000	mg/kg	1			Yes	S2BVE
Chromium	16.6	mg/kg	1		J-	Yes	S2BVE
Cobalt	13.0	mg/kg	1			Yes	S2BVE
Copper	24.9	mg/kg	1		J	Yes	S2BVE
Iron	19000	mg/kg	1			Yes	S2BVE
Lead	34.8	mg/kg	1		J	Yes	S2BVE
Magnesium	13600	mg/kg	1			Yes	S2BVE
Manganese	328	mg/kg	1		J	Yes	S2BVE
Nickel	30.2	mg/kg	1		J	Yes	S2BVE
Potassium	1170	mg/kg	1		J	Yes	S2BVE
Selenium	0.58	mg/kg	1	J	J	Yes	S2BVE
Silver	0.77	mg/kg	1	J	UJ	Yes	S2BVE
Sodium	423	mg/kg	1			Yes	S2BVE
Thallium	0.29	mg/kg	1	J	J	Yes	S2BVE
Vanadium	11.8	mg/kg	1		J	Yes	S2BVE
Zinc	107	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS2	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-9	pH:	2	Sample Date:	08102011	Sample Time:	13:20:00
% Moisture :				% Solids :	90		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.025	mg/kg	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS3	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-10	pH:	2	Sample Date:	08102011	Sample Time:	14:20:00
% Moisture :				% Solids :	79.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.63	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KS3	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-10	pH: 2	Sample Date: 08102011	Sample Time: 14:20:00
% Moisture :		% Solids : 79.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	4450	mg/kg	1			Yes	S2BVE
Antimony	2.0	mg/kg	1	J	J	Yes	S2BVE
Arsenic	11.3	mg/kg	1		J	Yes	S2BVE
Barium	83.1	mg/kg	1			Yes	S2BVE
Beryllium	0.89	mg/kg	1		J	Yes	S2BVE
Cadmium	1.3	mg/kg	1			Yes	S2BVE
Calcium	2670	mg/kg	1			Yes	S2BVE
Chromium	11.1	mg/kg	1		J-	Yes	S2BVE
Cobalt	7.4	mg/kg	1			Yes	S2BVE
Copper	25.2	mg/kg	1		J	Yes	S2BVE
Iron	29100	mg/kg	10			Yes	S2BVE
Lead	64.2	mg/kg	1		J	Yes	S2BVE
Magnesium	1600	mg/kg	1			Yes	S2BVE
Manganese	196	mg/kg	1		J	Yes	S2BVE
Nickel	20.2	mg/kg	1		J	Yes	S2BVE
Potassium	1050	mg/kg	1		J	Yes	S2BVE
Selenium	1.3	mg/kg	1	J	J	Yes	S2BVE
Silver	0.99	mg/kg	1		J-	Yes	S2BVE
Sodium	717	mg/kg	1			Yes	S2BVE
Thallium	2.1	mg/kg	1	U	U	Yes	S2BVE
Vanadium	10.9	mg/kg	1		J	Yes	S2BVE
Zinc	153	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS3	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-10	pH:	2	Sample Date:	08102011	Sample Time:	14:20:00
% Moisture :				% Solids :	79.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.042	mg/kg	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS4	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-11	pH:	2	Sample Date:	08102011	Sample Time:	14:40:00
% Moisture :				% Solids :	87.6		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.11	mg/kg	1	U	U	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS4	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-11	pH:	2	Sample Date:	08102011	Sample Time:	14:40:00
% Moisture :				% Solids :	87.6		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.57	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KS4	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-11	pH: 2	Sample Date: 08102011	Sample Time: 14:40:00
% Moisture :		% Solids : 87.6	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	6800	mg/kg	1			Yes	S2BVE
Antimony	0.76	mg/kg	1	J	J	Yes	S2BVE
Arsenic	11.7	mg/kg	1		J	Yes	S2BVE
Barium	54.2	mg/kg	1			Yes	S2BVE
Beryllium	0.60	mg/kg	1		J	Yes	S2BVE
Cadmium	0.46	mg/kg	1			Yes	S2BVE
Calcium	50500	mg/kg	10			Yes	S2BVE
Chromium	11.8	mg/kg	1		J-	Yes	S2BVE
Cobalt	11.6	mg/kg	1			Yes	S2BVE
Copper	24.3	mg/kg	1		J	Yes	S2BVE
Iron	21500	mg/kg	1			Yes	S2BVE
Lead	14.7	mg/kg	1		J	Yes	S2BVE
Magnesium	9110	mg/kg	1			Yes	S2BVE
Manganese	410	mg/kg	1		J	Yes	S2BVE
Nickel	31.9	mg/kg	1		J	Yes	S2BVE
Potassium	1460	mg/kg	1		J	Yes	S2BVE
Selenium	0.80	mg/kg	1	J	J	Yes	S2BVE
Silver	0.79	mg/kg	1	J	UJ	Yes	S2BVE
Sodium	394	mg/kg	1	J	U	Yes	S2BVE
Thallium	0.54	mg/kg	1	J	J	Yes	S2BVE
Vanadium	12.4	mg/kg	1		J	Yes	S2BVE
Zinc	75.2	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS5	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-12	pH:	2	Sample Date:	08102011	Sample Time:	10:15:00
% Moisture :				% Solids :	83.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.21	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS5	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-12	pH:	2	Sample Date:	08102011	Sample Time:	10:15:00
% Moisture :				% Solids :	83.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.38	mg/kg	1	J	J	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KS5	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-12	pH: 2	Sample Date: 08102011	Sample Time: 10:15:00
% Moisture :		% Solids : 83.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	6260	mg/kg	1			Yes	S2BVE
Antimony	5.2	mg/kg	1		J	Yes	S2BVE
Arsenic	13.3	mg/kg	1		J	Yes	S2BVE
Barium	1040	mg/kg	1			Yes	S2BVE
Beryllium	0.75	mg/kg	1		J	Yes	S2BVE
Cadmium	3.3	mg/kg	1			Yes	S2BVE
Calcium	56300	mg/kg	10			Yes	S2BVE
Chromium	39.1	mg/kg	1		J-	Yes	S2BVE
Cobalt	104	mg/kg	1			Yes	S2BVE
Copper	81.9	mg/kg	1		J	Yes	S2BVE
Iron	29900	mg/kg	10			Yes	S2BVE
Lead	708	mg/kg	1		J	Yes	S2BVE
Magnesium	12600	mg/kg	1			Yes	S2BVE
Manganese	407	mg/kg	1		J	Yes	S2BVE
Nickel	120	mg/kg	1		J	Yes	S2BVE
Potassium	1480	mg/kg	1		J	Yes	S2BVE
Selenium	0.55	mg/kg	1	J	J	Yes	S2BVE
Silver	3.5	mg/kg	1		J-	Yes	S2BVE
Sodium	818	mg/kg	1			Yes	S2BVE
Thallium	0.29	mg/kg	1	J	J	Yes	S2BVE
Vanadium	11.5	mg/kg	1		J	Yes	S2BVE
Zinc	521	mg/kg	1			Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KS6	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location: SO-13	pH: 2	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture :		% Solids : 81.9	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	5180	mg/kg	1			Yes	S2BVE
Antimony	1.2	mg/kg	1	J	J	Yes	S2BVE
Arsenic	5.9	mg/kg	1		J	Yes	S2BVE
Barium	45.7	mg/kg	1			Yes	S2BVE
Beryllium	0.46	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.60	mg/kg	1	J	J	Yes	S2BVE
Calcium	3820	mg/kg	1			Yes	S2BVE
Chromium	9.1	mg/kg	1		J-	Yes	S2BVE
Cobalt	8.3	mg/kg	1			Yes	S2BVE
Copper	14.1	mg/kg	1		J	Yes	S2BVE
Iron	14300	mg/kg	1			Yes	S2BVE
Lead	15.7	mg/kg	1		J	Yes	S2BVE
Magnesium	2440	mg/kg	1			Yes	S2BVE
Manganese	262	mg/kg	1		J	Yes	S2BVE
Nickel	20.3	mg/kg	1		J	Yes	S2BVE
Potassium	689	mg/kg	1		J	Yes	S2BVE
Selenium	1.2	mg/kg	1	J	J	Yes	S2BVE
Silver	1.2	mg/kg	1	J	UJ	Yes	S2BVE
Sodium	611	mg/kg	1	J	U	Yes	S2BVE
Thallium	3.1	mg/kg	1	U	U	Yes	S2BVE
Vanadium	11.4	mg/kg	1		J	Yes	S2BVE
Zinc	68.6	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS6	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-13	pH:	2	Sample Date:	08092011	Sample Time:	16:00:00
% Moisture :				% Solids :	81.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.037	mg/kg	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS6	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-13	pH:	2	Sample Date:	08092011	Sample Time:	16:00:00
% Moisture :				% Solids :	81.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.61	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KS6D	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 2	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture :		% Solids : 81.5	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	4580	mg/kg	1			Yes	S2BVE
Antimony	1.2	mg/kg	1	J	J	Yes	S2BVE
Arsenic	10.1	mg/kg	1			Yes	S2BVE
Barium	45.6	mg/kg	1			Yes	S2BVE
Beryllium	0.49	mg/kg	1	J	J	Yes	S2BVE
Cadmium	0.86	mg/kg	1			Yes	S2BVE
Calcium	3060	mg/kg	1			Yes	S2BVE
Chromium	8.5	mg/kg	1			Yes	S2BVE
Cobalt	10.9	mg/kg	1			Yes	S2BVE
Copper	20.1	mg/kg	1			Yes	S2BVE
Iron	15700	mg/kg	1			Yes	S2BVE
Lead	20.7	mg/kg	1			Yes	S2BVE
Magnesium	1950	mg/kg	1			Yes	S2BVE
Manganese	351	mg/kg	1			Yes	S2BVE
Nickel	24.0	mg/kg	1			Yes	S2BVE
Potassium	699	mg/kg	1			Yes	S2BVE
Selenium	1.1	mg/kg	1	J	J	Yes	S2BVE
Silver	1.2	mg/kg	1	J	U	Yes	S2BVE
Sodium	611	mg/kg	1	J	U	Yes	S2BVE
Thallium	3.1	mg/kg	1	U	U	Yes	S2BVE
Vanadium	13.2	mg/kg	1			Yes	S2BVE
Zinc	71.5	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS6D	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	2	Sample Date:	08092011	Sample Time:	04:00:00
% Moisture :				% Solids :	81.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.035	mg/kg	1	J	J	Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS6D	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-13	pH:	2	Sample Date:	08092011	Sample Time:	04:00:00
% Moisture :				% Solids :	81.5		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	0.61	mg/kg	1	U	U	Yes	S2BVE

Case No: 41647	Contract: EPW09038	SDG No: ME5KR4	Lab Code: CHEM
Sample Number: ME5KS6S	Method: ICP_AES	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH: 2	Sample Date: 08092011	Sample Time: 16:00:00
% Moisture :		% Solids : 81.9	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	17.4	mg/kg	1			Yes	S2BVE
Arsenic	13.2	mg/kg	1			Yes	S2BVE
Barium	416	mg/kg	1			Yes	S2BVE
Beryllium	8.1	mg/kg	1			Yes	S2BVE
Cadmium	10.8	mg/kg	1			Yes	S2BVE
Chromium	45.3	mg/kg	1			Yes	S2BVE
Cobalt	100	mg/kg	1			Yes	S2BVE
Copper	58.2	mg/kg	1			Yes	S2BVE
Lead	18.5	mg/kg	1			Yes	S2BVE
Manganese	317	mg/kg	1			Yes	S2BVE
Nickel	122	mg/kg	1			Yes	S2BVE
Selenium	11.0	mg/kg	1			Yes	S2BVE
Silver	9.1	mg/kg	1			Yes	S2BVE
Thallium	9.8	mg/kg	1			Yes	S2BVE
Vanadium	99.4	mg/kg	1			Yes	S2BVE
Zinc	165	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS6S	Method:	CN	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SO-13	pH:	2	Sample Date:	08092011	Sample Time:	04:00:00
% Moisture :				% Solids :	81.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	5.9	mg/kg	1			Yes	S2BVE

Case No:	41647	Contract:	EPW09038	SDG No:	ME5KR4	Lab Code:	CHEM
Sample Number:	ME5KS6S	Method:	Hg	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	2	Sample Date:	08092011	Sample Time:	04:00:00
% Moisture :				% Solids :	81.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.65	mg/kg	1			Yes	S2BVE

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	41647
DAS No:	
SDG No:	ME5KR4

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Date Shipped:	8/10/2011
Carrier Name:	FedEx
Airbill:	866389086563
Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	8/10/11 1500		8/11/11 9:00
2			
3			
4			

For Lab Use Only

Lab Contract No:	EPW09030
Unit Price:	
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
ME5KR4	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001093 (Ice Only) (1)	SO-1	S: 8/9/2011	12:35	E5KR4	
ME5KR5	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001100 (Ice Only) (1)	SO-2	S: 8/9/2011	15:00	E5KR5	
ME5KR6	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001308 (Ice Only) (1)	SO-3	S: 8/9/2011	16:40	E5KR6	
ME5KR7	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001315 (Ice Only) (1)	SO-4	S: 8/10/2011	9:45	E5KR7	
ME5KR8	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001322 (Ice Only) (1)	SO-5	S: 8/10/2011	10:00	E5KR8	
ME5KR9	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001329 (Ice Only) (1)	SO-6	S: 8/10/2011	10:50	E5KR9	
ME5KS0	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001336 (Ice Only) (1)	SO-7	S: 8/10/2011	11:10	E5KS0	
ME5KS1	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001343 (Ice Only) (1)	SO-8	S: 8/10/2011	13:10	E5KS1	
ME5KS2	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001350 (Ice Only) (1)	SO-9	S: 8/10/2011	13:20	E5KS2	
ME5KS3	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001357 (Ice Only) (1)	SO-10	S: 8/10/2011	14:20	E5KS3	

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:
	ME5KS6		5°C	29023-24

Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Yes	Shipment Iced? Yes

CN water = CLP Cyanide water, TM/CN/hg s = CLP TAL TM/ Hg/CN soil, TM/Hgwater = CLP TAL Total Metals/Hg water

TR Number: 5-131260284-081011-0004

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 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

Case No:	41647
DAS No:	
SDG No:	ME5KR4

L

Date Shipped:	8/10/2011
Carrier Name:	FedEx
Airbill:	866389086563
Shipped to:	ChemTech Consulting Group (CHEMED) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	8/10/11 1520	[illegible]	8/11/11 9:00
2			
3			
4			

For Lab Use Only

Lab Contract No:	EPW09038
Unit Price:	
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
ME5KS4	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001364 (Ice Only) (1)	SO-11	S: 8/10/2011 14:40	E5KS4	
ME5KS5	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001371 (Ice Only) (1)	SO-12	S: 8/10/2011 10:15	E5KS5	
ME5KS6	Subsurface Soil (>12")/ Victoria Sigler	L/G	TM/CN/hg s (21)	5C-001387 (Ice Only) (1)	SO-13	S: 8/9/2011 16:00	E5KS6	
ME5KT6	Leachate/ Victoria Sigler	L/G	CN water (21), TM/Hgwater (21)	5C-101870 (HNO3), 5C-101874 (NaOH) (2)	L-10	S: 8/10/2011	E5KT6	

(EPA sample: ME5KT6 is in SDG # ME5KS7)

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: ME5KS6	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 29023-24
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y/CS	Shipment Iced? Y/CS

CN water = CLP Cyanide water, TM/CN/hg s = CLP TAL TM/ Hg/CN soil, TM/Hgwater = CLP TAL Total Metals/Hg water

TR Number: 5-131260284-081011-0004

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA 20151-3810 Phone 703/818-4200; Fax 703/818-4602

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # ME5KR4
CASE # 41647
CONTRACT # EPW09038
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT #C3327

A. Number of Samples and Date of Receipt

13 Soil Samples were delivered to the laboratory intact on 08/11/11.

B. Parameters

Test requested for METALS CLP FULL == Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc & HG & CN.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence
Cooler: 5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

E. Corrective Action taken for above:

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ISM01.2.

G. Calculation:

Calculation example for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in mg/L or ppm for ICP-AES) X 1000 X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP-Soil Prep.

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10 (1.0 X10 or 0.50 X

20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.5 g to Final Volume 50ml)

Or

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10.2 (1.02 X 10 or 0.51 X 20)
(if 1.02 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.51 g to Final Volume 50ml)

Etc.

Calculation example for Hg Soil Sample:

Conversion of Results from ppb to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in ppb for Hg) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1/ 2 (0.2 X 10)
(if 0.2 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 2.1 (0.21 X 10)
(if 0.21 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Etc.

Calculation example for CN Soil Sample:

Conversion of Results from Ug/L to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in Ug/L for CN) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in CN Soil Prep = 1/20 (1 X 20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 20.2 (1.01 X 20)
(if 1.01 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Etc.

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony, Beryllium, Chromium, Copper, Lead, Manganese, Silver and Vanadium. Duplicate sample did meet requirements except for Arsenic, Calcium, Copper, Lead and Manganese. Serial Dilution did meet requirements except for Chromium, Nickel and Potassium.

I certify that the 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 hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V Reyes Name: Mildred V. Reyes

Date _____ Title: Document Control Officer

Metals

COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No: 41647 Mod. Ref. No.: _____ SDG No: ME5KR4

SOW No.: ISM01.2

EPA Sample No.	Lab Sample ID
ME5KR4	C3327-01
ME5KR5	C3327-02
ME5KR6	C3327-03
ME5KR7	C3327-04
ME5KR8	C3327-05
ME5KR9	C3327-06
ME5KS0	C3327-07
ME5KS1	C3327-08
ME5KS2	C3327-09
ME5KS3	C3327-10
ME5KS4	C3327-11
ME5KS5	C3327-12
ME5KS6	C3327-13
ME5KS6D	C3327-14
ME5KS6S	C3327-15

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	N/A
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	N/A
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	N/A

The laboratory did not receive any instructions with this SDG to modify the SOW standard laboratory sample preparation procedures (e.g., subsampling). To aid in the determination of data usability with respect to project decisions, any modifications performed are described below.

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 electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mildred Reyes Name: MILDRED REYES

Date: 8/31/11 Title: DOCUMENT CONTROL OFFICER

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR4

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-01

% Solids: 88.4 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8230			P
7440-36-0	Antimony	0.90	J	N	P
7440-38-2	Arsenic	13.6		*	P
7440-39-3	Barium	97.5			P
7440-41-7	Beryllium	0.86		N	P
7440-43-9	Cadmium	0.58			P
7440-70-2	Calcium	53900		*D	P
7440-47-3	Chromium	14.3		NE	P
7440-48-4	Cobalt	16.9			P
7440-50-8	Copper	23.1		N*	P
7439-89-6	Iron	37800		D	P
7439-92-1	Lead	12.9		N*	P
7439-95-4	Magnesium	11500			P
7439-96-5	Manganese	771		N*	P
7439-97-6	Mercury	0.02	J		CV
7440-02-0	Nickel	39.0		E	P
7440-09-7	Potassium	1520		E	P
7782-49-2	Selenium	0.86	J		P
7440-22-4	Silver	1.0		N	P
7440-23-5	Sodium	349	J		P
7440-28-0	Thallium	0.86	J		P
7440-62-2	Vanadium	15.5		N	P
7440-66-6	Zinc	77.9			P
57-12-5	Cyanide	0.56	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR5

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-02

% Solids: 84.8 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9990			P
7440-36-0	Antimony	0.80	J	N	P
7440-38-2	Arsenic	7.5		*	P
7440-39-3	Barium	107			P
7440-41-7	Beryllium	0.69		N	P
7440-43-9	Cadmium	0.54			P
7440-70-2	Calcium	74700		*D	P
7440-47-3	Chromium	17.9		NE	P
7440-48-4	Cobalt	13.6			P
7440-50-8	Copper	22.6		N*	P
7439-89-6	Iron	20200			P
7439-92-1	Lead	11.0		N*	P
7439-95-4	Magnesium	13400			P
7439-96-5	Manganese	386		N*	P
7439-97-6	Mercury	0.02	J		CV
7440-02-0	Nickel	40.9		E	P
7440-09-7	Potassium	1980		E	P
7782-49-2	Selenium	1.2	J		P
7440-22-4	Silver	0.63	J	N	P
7440-23-5	Sodium	367	J		P
7440-28-0	Thallium	0.63	J		P
7440-62-2	Vanadium	20.1		N	P
7440-66-6	Zinc	70.4			P
57-12-5	Cyanide	0.59	U		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR6

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-03

% Solids: 79.7 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9780			P
7440-36-0	Antimony	0.89	J	N	P
7440-38-2	Arsenic	8.8		*	P
7440-39-3	Barium	59.2			P
7440-41-7	Beryllium	0.72		N	P
7440-43-9	Cadmium	0.63			P
7440-70-2	Calcium	14900		*	P
7440-47-3	Chromium	17.1		NE	P
7440-48-4	Cobalt	20.6			P
7440-50-8	Copper	16.5		N*	P
7439-89-6	Iron	22000			P
7439-92-1	Lead	18.5		N*	P
7439-95-4	Magnesium	4290			P
7439-96-5	Manganese	375		N*	P
7439-97-6	Mercury	0.04	J		CV
7440-02-0	Nickel	24.5		E	P
7440-09-7	Potassium	1130		E	P
7782-49-2	Selenium	1.3	J		P
7440-22-4	Silver	0.70	J	N	P
7440-23-5	Sodium	285	J		P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	20.6		N	P
7440-66-6	Zinc	76.2			P
57-12-5	Cyanide	0.63	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR7

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-04

% Solids: 80.2 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8110			P
7440-36-0	Antimony	9.9		N	P
7440-38-2	Arsenic	16.7		*	P
7440-39-3	Barium	2300		D	P
7440-41-7	Beryllium	1.0		N	P
7440-43-9	Cadmium	8.1			P
7440-70-2	Calcium	37400		*	P
7440-47-3	Chromium	184		NE	P
7440-48-4	Cobalt	204			P
7440-50-8	Copper	429		N*	P
7439-89-6	Iron	42600		D	P
7439-92-1	Lead	646		N*	P
7439-95-4	Magnesium	11100			P
7439-96-5	Manganese	640		N*	P
7439-97-6	Mercury	0.27			CV
7440-02-0	Nickel	233		E	P
7440-09-7	Potassium	2540		E	P
7782-49-2	Selenium	1.3	J		P
7440-22-4	Silver	7.3		N	P
7440-23-5	Sodium	4400			P
7440-28-0	Thallium	0.37	J		P
7440-62-2	Vanadium	15.6		N	P
7440-66-6	Zinc	1670			P
57-12-5	Cyanide	0.21	J		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR8

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-05

% Solids: 83.2 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6660			P
7440-36-0	Antimony	5.7		N	P
7440-38-2	Arsenic	16.1		*	P
7440-39-3	Barium	1110			P
7440-41-7	Beryllium	0.88		N	P
7440-43-9	Cadmium	3.4			P
7440-70-2	Calcium	24300		*	P
7440-47-3	Chromium	48.2		NE	P
7440-48-4	Cobalt	111			P
7440-50-8	Copper	113		N*	P
7439-89-6	Iron	41100		D	P
7439-92-1	Lead	188		N*	P
7439-95-4	Magnesium	8030			P
7439-96-5	Manganese	468		N*	P
7439-97-6	Mercury	0.29			CV
7440-02-0	Nickel	128		E	P
7440-09-7	Potassium	1500		E	P
7782-49-2	Selenium	0.93	J		P
7440-22-4	Silver	3.9		N	P
7440-23-5	Sodium	767			P
7440-28-0	Thallium	0.35	J		P
7440-62-2	Vanadium	12.8		N	P
7440-66-6	Zinc	558			P
57-12-5	Cyanide	0.33	J		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KR9

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-06

% Solids: 78.5 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5600			P
7440-36-0	Antimony	10.6		N	P
7440-38-2	Arsenic	7.7		*	P
7440-39-3	Barium	308			P
7440-41-7	Beryllium	0.63		N	P
7440-43-9	Cadmium	5.6			P
7440-70-2	Calcium	9340		*	P
7440-47-3	Chromium	43.0		NE	P
7440-48-4	Cobalt	19.7			P
7440-50-8	Copper	86.3		N*	P
7439-89-6	Iron	25800			P
7439-92-1	Lead	402		N*	P
7439-95-4	Magnesium	3780			P
7439-96-5	Manganese	211		N*	P
7439-97-6	Mercury	0.26			CV
7440-02-0	Nickel	56.2		E	P
7440-09-7	Potassium	857		E	P
7782-49-2	Selenium	1.8	J		P
7440-22-4	Silver	1.7		N	P
7440-23-5	Sodium	1440			P
7440-28-0	Thallium	0.26	J		P
7440-62-2	Vanadium	29.0		N	P
7440-66-6	Zinc	1210			P
57-12-5	Cyanide	0.39	J		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS0

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-07

% Solids: 90.1 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4960			P
7440-36-0	Antimony	1.1	J	N	P
7440-38-2	Arsenic	6.5		*	P
7440-39-3	Barium	48.0			P
7440-41-7	Beryllium	0.45		N	P
7440-43-9	Cadmium	0.90			P
7440-70-2	Calcium	9370		*	P
7440-47-3	Chromium	11.0		NE	P
7440-48-4	Cobalt	7.7			P
7440-50-8	Copper	26.7		N*	P
7439-89-6	Iron	14500			P
7439-92-1	Lead	44.8		N*	P
7439-95-4	Magnesium	3350			P
7439-96-5	Manganese	175		N*	P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	21.0		E	P
7440-09-7	Potassium	827		E	P
7782-49-2	Selenium	0.59	J		P
7440-22-4	Silver	0.68	J	N	P
7440-23-5	Sodium	213	J		P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	10.9		N	P
7440-66-6	Zinc	121			P
57-12-5	Cyanide	0.55	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS1

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-08

% Solids: 77.6 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6010			P
7440-36-0	Antimony	1.5	J	N	P
7440-38-2	Arsenic	6.5		*	P
7440-39-3	Barium	47.1			P
7440-41-7	Beryllium	0.50		N	P
7440-43-9	Cadmium	0.81			P
7440-70-2	Calcium	6400		*	P
7440-47-3	Chromium	11.0		NE	P
7440-48-4	Cobalt	7.3			P
7440-50-8	Copper	32.2		N*	P
7439-89-6	Iron	15800			P
7439-92-1	Lead	61.2		N*	P
7439-95-4	Magnesium	3390			P
7439-96-5	Manganese	128		N*	P
7439-97-6	Mercury	0.28			CV
7440-02-0	Nickel	21.4		E	P
7440-09-7	Potassium	1500		E	P
7782-49-2	Selenium	1.1	J		P
7440-22-4	Silver	0.89	J	N	P
7440-23-5	Sodium	1390			P
7440-28-0	Thallium	2.4	U		P
7440-62-2	Vanadium	11.9		N	P
7440-66-6	Zinc	163			P
57-12-5	Cyanide	0.64	U		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS2

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-09

% Solids: 90.0 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6310			P
7440-36-0	Antimony	1.9	J	N	P
7440-38-2	Arsenic	10.1		*	P
7440-39-3	Barium	64.9			P
7440-41-7	Beryllium	0.57		N	P
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium	36000		*	P
7440-47-3	Chromium	16.6		NE	P
7440-48-4	Cobalt	13.0			P
7440-50-8	Copper	24.9		N*	P
7439-89-6	Iron	19000			P
7439-92-1	Lead	34.8		N*	P
7439-95-4	Magnesium	13600			P
7439-96-5	Manganese	328		N*	P
7439-97-6	Mercury	0.02	J		CV
7440-02-0	Nickel	30.2		E	P
7440-09-7	Potassium	1170		E	P
7782-49-2	Selenium	0.58	J		P
7440-22-4	Silver	0.73	J	N	P
7440-23-5	Sodium	423			P
7440-28-0	Thallium	0.29	J		P
7440-62-2	Vanadium	11.8		N	P
7440-66-6	Zinc	107			P
57-12-5	Cyanide	0.55	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS3

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-10

% Solids: 79.5 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4450			P
7440-36-0	Antimony	2.0	J	N	P
7440-38-2	Arsenic	11.3		*	P
7440-39-3	Barium	83.1			P
7440-41-7	Beryllium	0.89		N	P
7440-43-9	Cadmium	1.3			P
7440-70-2	Calcium	2670		*	P
7440-47-3	Chromium	11.1		NE	P
7440-48-4	Cobalt	7.4			P
7440-50-8	Copper	25.2		N*	P
7439-89-6	Iron	29100		D	P
7439-92-1	Lead	64.2		N*	P
7439-95-4	Magnesium	1600			P
7439-96-5	Manganese	196		N*	P
7439-97-6	Mercury	0.04	J		CV
7440-02-0	Nickel	20.2		E	P
7440-09-7	Potassium	1050		E	P
7782-49-2	Selenium	1.3	J		P
7440-22-4	Silver	0.99		N	P
7440-23-5	Sodium	717			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	10.9		N	P
7440-66-6	Zinc	153			P
57-12-5	Cyanide	0.63	U		AS

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS4

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-11

% Solids: 87.6 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6800			P
7440-36-0	Antimony	0.76	J	N	P
7440-38-2	Arsenic	11.7		*	P
7440-39-3	Barium	54.2			P
7440-41-7	Beryllium	0.60		N	P
7440-43-9	Cadmium	0.46			P
7440-70-2	Calcium	50500		*D	P
7440-47-3	Chromium	11.8		NE	P
7440-48-4	Cobalt	11.6			P
7440-50-8	Copper	24.3		N*	P
7439-89-6	Iron	21500			P
7439-92-1	Lead	14.7		N*	P
7439-95-4	Magnesium	9110			P
7439-96-5	Manganese	410		N*	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	31.9		E	P
7440-09-7	Potassium	1460		E	P
7782-49-2	Selenium	0.80	J		P
7440-22-4	Silver	0.73	J	N	P
7440-23-5	Sodium	266	J		P
7440-28-0	Thallium	0.54	J		P
7440-62-2	Vanadium	12.4		N	P
7440-66-6	Zinc	75.2			P
57-12-5	Cyanide	0.57	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS5

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-12

% Solids: 83.5 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6260			P
7440-36-0	Antimony	5.2		N	P
7440-38-2	Arsenic	13.3		*	P
7440-39-3	Barium	1040			P
7440-41-7	Beryllium	0.75		N	P
7440-43-9	Cadmium	3.3			P
7440-70-2	Calcium	56300		*D	P
7440-47-3	Chromium	39.1		NE	P
7440-48-4	Cobalt	104			P
7440-50-8	Copper	81.9		N*	P
7439-89-6	Iron	29900		D	P
7439-92-1	Lead	708		N*	P
7439-95-4	Magnesium	12600			P
7439-96-5	Manganese	407		N*	P
7439-97-6	Mercury	0.21			CV
7440-02-0	Nickel	120		E	P
7440-09-7	Potassium	1480		E	P
7782-49-2	Selenium	0.55	J		P
7440-22-4	Silver	3.5		N	P
7440-23-5	Sodium	818			P
7440-28-0	Thallium	0.29	J		P
7440-62-2	Vanadium	11.5		N	P
7440-66-6	Zinc	521			P
57-12-5	Cyanide	0.38	J		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME5KS6

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL Lab Sample ID: C3327-13

% Solids: 81.9 Date Received: 08/11/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5180			P
7440-36-0	Antimony	1.2	J	N	P
7440-38-2	Arsenic	5.9		*	P
7440-39-3	Barium	45.7			P
7440-41-7	Beryllium	0.46	J	N	P
7440-43-9	Cadmium	0.60	J		P
7440-70-2	Calcium	3820		*	P
7440-47-3	Chromium	9.1		NE	P
7440-48-4	Cobalt	8.3			P
7440-50-8	Copper	14.1		N*	P
7439-89-6	Iron	14300			P
7439-92-1	Lead	15.7		N*	P
7439-95-4	Magnesium	2440			P
7439-96-5	Manganese	262		N*	P
7439-97-6	Mercury	0.04	J		CV
7440-02-0	Nickel	20.3		E	P
7440-09-7	Potassium	689		E	P
7782-49-2	Selenium	1.2	J		P
7440-22-4	Silver	0.63	J	N	P
7440-23-5	Sodium	244	J		P
7440-28-0	Thallium	3.1	U		P
7440-62-2	Vanadium	11.4		N	P
7440-66-6	Zinc	68.6			P
57-12-5	Cyanide	0.61	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Preparation Blank Matrix (soil/water/wipe/filter): SOIL

Preparation Blank Concentration Units (ug/L, ug, 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	31.925	J	200.000	U	20.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Beryllium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Cadmium	5.000	U	5.000	U	0.332	J	5.000	U	0.500	U	P
Calcium	-16.977	J	-17.401	J	31.764	J	5000.000	U	500.000	U	P
Chromium	10.000	U	1.335	J	2.497	J	10.000	U	1.000	U	P
Cobalt	50.000	U	50.000	U	0.409	J	50.000	U	5.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Iron	100.000	U	13.287	J	38.429	J	20.246	J	10.000	U	P
Lead	10.000	U	10.000	U	4.058	J	10.000	U	1.000	U	P
Magnesium	5000.000	U	5000.000	U	49.350	J	5000.000	U	500.000	U	P
Manganese	15.000	U	15.000	U	1.894	J	15.000	U	1.500	U	P
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.100	U	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	4.000	U	P
Potassium	5000.000	U	5000.000	U	139.340	J	5000.000	U	500.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	3.500	U	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	3.436	J	6.234	J	4.085	J	2.500	U	P
Vanadium	0.453	J	0.350	J	50.000	U	-3.208	J	-0.238	J	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Cyanide	10.0000	U	10.0000	U	10.0000	U			0.500	U	AS

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or 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			P
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			200.000	U	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			5.000	U	5.000	U	5.000	U			P
Calcium			5000.000	U	5000.000	U	5000.000	U			P
Chromium			10.000	U	10.000	U	-1.079	J			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U			P
Iron			11.085	J	18.898	J	16.692	J			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
Mercury			0.20	U							CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			186.186	J	190.900	J	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			198.897	J	152.636	J	5000.000	U			P
Thallium			7.478	J	4.783	J	5.884	J			P
Vanadium			50.000	U	-2.226	J	-0.867	J			P
Zinc			60.000	U	60.000	U	60.000	U			P

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or 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
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			200.000	U	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U					P
Cadmium			5.000	U	5.000	U	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			100.000	U	17.487	J	12.227	J			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	-0.416	J			P
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			195.463	J	187.253	J	193.860	J			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			0.691	J	10.000	U	10.000	U			P
Sodium			325.790	J	260.073	J	165.070	J			P
Thallium			25.000	U	25.000	U	5.394	J			P
Vanadium			-0.735	J	-1.116	J	-0.444	J			P
Zinc			60.000	U	60.000	U	60.000	U			P

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): _____

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Antimony			60.000	U							P
Arsenic			10.000	U							P
Barium			200.000	U							P
Calcium			5000.000	U							P
Chromium			10.000	U							P
Cobalt			50.000	U							P
Copper			25.000	U							P
Iron			30.070	J							P
Lead			10.000	U							P
Magnesium			5000.000	U							P
Manganese			15.000	U							P
Potassium			5000.000	U							P
Selenium			35.000	U							P
Silver			-0.880	J							P
Sodium			-176.131	J							P
Thallium			3.174	J							P
Vanadium			-0.409	J							P
Zinc			60.000	U							P

Metals

3-IN
BLANKS

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): _____

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Beryllium	5.000	U	5.000	U	5.000	U					P

Metals

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME5KS6S

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL

% Solids for Sample: 81.9

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
Antimony	75 - 125	17.4268		1.2302	J	24.42	66	N	P
Arsenic	75 - 125	13.2160		5.8760		9.77	75		P
Barium	75 - 125	415.8298		45.6815		488.40	76		P
Beryllium	75 - 125	8.0979		0.4601	J	12.21	63	N	P
Cadmium	75 - 125	10.8293		0.5992	J	12.21	84		P
Chromium	75 - 125	45.2784		9.0867		48.84	74	N	P
Cobalt	75 - 125	100.0881		8.2640		122.10	75		P
Copper	75 - 125	58.2088		14.1182		61.05	72	N	P
Lead	75 - 125	18.4852		15.6980		4.88	57	N	P
Manganese	75 - 125	317.2327		261.6277		122.10	46	N	P
Mercury	75 - 125	0.6520		0.0366	J	0.73	84		CV
Nickel	75 - 125	122.4032		20.3053		122.10	84		P
Selenium	75 - 125	11.0252		1.1808	J	12.21	81		P
Silver	75 - 125	9.1005		0.6302	J	12.21	69	N	P
Thallium	75 - 125	9.8005		3.0525	U	12.21	80		P
Vanadium	75 - 125	99.4383		11.3870		122.10	72	N	P
Zinc	75 - 125	165.1438		68.6263		122.10	79		P
Cyanide	75 - 125	5.8779		0.6092	U	6.092	96		AS

Comments:

Metals

5B-IN

POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME5KS6A

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL

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
Antimony		16.23		1.23	J	14.7	102.0		P
Beryllium		2.13		0.46	J	1.2	139.2		P
Chromium		22.54		9.09		18.3	73.5		P
Copper		42.41		14.12		28.1	100.7		P
Lead		47.17		15.70		31.7	99.3		P
Manganese		908.84		261.63		512.8	126.2		P
Vanadium		38.86		11.39		23.2	118.4		P

Comments:

Metals

6-IN

DUPLICATES

EPA SAMPLE NO.

ME5KS6D

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Matrix: SOIL

% Solids for Sample: 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		5175.2930		4578.5010		12		P
Antimony		1.2302	J	1.1612	J	6		P
Arsenic	1.2210	5.8760		10.1398		53	*	P
Barium	24.4200	45.6815		45.6108		0		P
Beryllium		0.4601	J	0.4892	J	6		P
Cadmium	0.6105	0.5992	J	0.8559		35		P
Calcium		3816.1750		3063.6240		22	*	P
Chromium		9.0867		8.4734		7		P
Cobalt	6.1050	8.2640		10.9364		28		P
Copper	3.0525	14.1182		20.0642		35	*	P
Iron		14320.5300		15673.2500		9		P
Lead		15.6980		20.7200		28	*	P
Magnesium	610.5006	2441.5060		1953.5830		22		P
Manganese		261.6277		351.4438		29	*	P
Mercury		0.0366	J	0.0349	J	5		CV
Nickel	4.8840	20.3053		24.0408		17		P
Potassium	610.5006	688.6099		698.8557		1		P
Selenium		1.1808	J	1.1089	J	6		P
Silver		0.6302	J	0.7114	J	12		P
Sodium		244.2293	J	277.1988	J	13		P
Thallium		3.0525	U	3.0525	U			P
Vanadium	6.1050	11.3870		13.2333		15		P
Zinc		68.6263		71.5411		4		P
Cyanide		0.6089	U	0.6089	U			AS

Metals

8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME5KS6L

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Matrix: SOIL

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	5175.29		5350.52		3		P
Antimony	1.230	J	36.630	U	100		P
Arsenic	5.876		5.703	J	2.9		P
Barium	45.68		46.62	J	2		P
Beryllium	0.46	J	0.43	J	7		P
Cadmium	0.60	J	0.62	J	3		P
Calcium	3816.18		3933.57		3		P
Chromium	9.09		12.80		41	E	P
Cobalt	8.26		8.21	J	1		P
Copper	14.12		14.68	J	4		P
Iron	14320.53		15084.79		5		P
Lead	15.70		15.20		3		P
Magnesium	2441.51		2542.42	J	4		P
Manganese	261.63		274.30		5		P
Nickel	20.31		22.73	J	12	E	P
Potassium	688.61		796.41	J	16	E	P
Selenium	1.18	J	21.37	U	100		P
Silver	0.63	J	1.25	J	98		P
Sodium	244.23	J	452.18	J	85		P
Thallium	3.05	U	15.26	U			P
Vanadium	11.39		11.37	J	0		P
Zinc	68.63		71.36		4		P

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Instrument Type: AS Instrument ID: CN Date: 01/04/2011

Preparation Method: Midi-distillation

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Cyanide	578.00	2.900

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Instrument Type: AS Instrument ID: CN Date: 01/04/2011

Preparation Method: Midi-distillation

Concentration Units (ug/L, mg/kg, or ug): MG/KG

Analyte	Wavelength/Mass	MDL
Cyanide	578.00	0.10

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Instrument Type: CV Instrument ID: CV2 Date: 01/14/2011

Preparation Method: 7470A

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Mercury	253.70	0.097

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Instrument Type: CV Instrument ID: CV2 Date: 01/14/2011

Preparation Method: 7471B

Concentration Units (ug/L, mg/kg, or ug): MG/KG

Analyte	Wavelength/Mass	MDL
Mercury	253.70	0.013

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Instrument Type: P Instrument ID: P5 Date: 12/17/2010

Preparation Method: 200.7

Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Aluminum	396.10	8.4
Antimony	206.83	1.7
Arsenic	189.04	2.5
Barium	493.41	2.8
Beryllium	234.80	0.40
Cadmium	214.40	0.12
Calcium	373.60	16.9
Chromium	267.72	0.97
Cobalt	228.62	0.35
Copper	324.75	9.1
Iron	259.80	8.3
Lead	220.35	1.3
Magnesium	279.08	17.9
Manganese	257.61	0.39
Nickel	231.60	0.64
Potassium	769.80	83.7
Selenium	196.02	2.9
Silver	328.07	0.67
Sodium	818.30	148
Thallium	190.86	2.7
Vanadium	292.40	0.33
Zinc	213.80	5.1

Comments: _____

Metals

9-IN
METHOD DETECTION LIMITS (MDL) (ANNUALLY)

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Instrument Type: P Instrument ID: P5 Date: 12/17/2010

Preparation Method: 3050B

Concentration Units (ug/L, mg/kg, or ug): MG/KG

Analyte	Wavelength/Mass	MDL
Aluminum	396.10	0.70
Antimony	206.83	0.16
Arsenic	189.04	0.13
Barium	493.41	0.084
Beryllium	234.80	0.041
Cadmium	214.40	0.0092
Calcium	373.60	1.3
Chromium	267.72	0.11
Cobalt	228.62	0.035
Copper	324.75	0.50
Iron	259.80	0.54
Lead	220.35	0.078
Magnesium	279.08	2.9
Manganese	257.61	0.038
Nickel	231.60	0.077
Potassium	769.80	6.9
Selenium	196.02	0.27
Silver	328.07	0.061
Sodium	818.30	19.8
Thallium	190.86	0.17
Vanadium	292.40	0.030
Zinc	213.80	0.51

Comments: _____

Metals

12-IN

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Preparation Method: 3050B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
PBS	08/12/2011	1.00	100
LCS	08/12/2011	1.00	100
ME5KR4	08/12/2011	1.42	100
ME5KR5	08/12/2011	1.46	100
ME5KR6	08/12/2011	1.37	100
ME5KR7	08/12/2011	1.39	100
ME5KR8	08/12/2011	1.49	100
ME5KR9	08/12/2011	1.45	100
ME5KS0	08/12/2011	1.31	100
ME5KS1	08/12/2011	1.37	100
ME5KS2	08/12/2011	1.45	100
ME5KS3	08/12/2011	1.49	100
ME5KS4	08/12/2011	1.45	100
ME5KS5	08/12/2011	1.42	100
ME5KS6	08/12/2011	1.00	100
ME5KS6D	08/12/2011	1.00	100
ME5KS6S	08/12/2011	1.00	100

Metals

12-IN

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Preparation Method: Midi-distillation

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
S0	08/15/2011	50.00	50
S5	08/15/2011	50.00	50
S10	08/15/2011	50.00	50
S100	08/15/2011	50.00	50
S250	08/15/2011	50.00	50
S500	08/15/2011	50.00	50
ICV	08/15/2011	50.00	50
ICB	08/15/2011	50.00	50
CCV	08/15/2011	50.00	50
CCB	08/15/2011	50.00	50
PBS	08/15/2011	1.00	50
ME5KR4	08/15/2011	1.00	50
ME5KR5	08/15/2011	1.00	50
ME5KR6	08/15/2011	1.00	50
ME5KR7	08/15/2011	1.00	50
ME5KR8	08/15/2011	1.00	50
ME5KR9	08/15/2011	1.00	50
ME5KS0	08/15/2011	1.00	50
ME5KS1	08/15/2011	1.00	50
ME5KS2	08/15/2011	1.00	50
ME5KS3	08/15/2011	1.00	50
ME5KS4	08/15/2011	1.00	50
ME5KS5	08/15/2011	1.00	50
ME5KS6	08/15/2011	1.00	50
ME5KS6D	08/15/2011	1.00	50
ME5KS6S	08/15/2011	1.00	50
CCV	08/15/2011	50.00	50
CCB	08/15/2011	50.00	50

Metals

12-IN

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Preparation Method: 7471B

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
S0.0	08/17/2011	100.00	100
S0.2	08/17/2011	100.00	100
S2.5	08/17/2011	100.00	100
S5.0	08/17/2011	100.00	100
S7.5	08/17/2011	100.00	100
S10.0	08/17/2011	100.00	100
ICV	08/17/2011	100.00	100
ICB	08/17/2011	100.00	100
CCV	08/17/2011	100.00	100
CCB	08/17/2011	100.00	100
PBS	08/17/2011	0.50	100
ME5KR4	08/17/2011	0.58	100
ME5KR5	08/17/2011	0.54	100
ME5KR6	08/17/2011	0.54	100
ME5KR7	08/17/2011	0.53	100
ME5KR8	08/17/2011	0.53	100
ME5KR9	08/17/2011	0.53	100
ME5KS0	08/17/2011	0.52	100
ME5KS1	08/17/2011	0.55	100
ME5KS2	08/17/2011	0.52	100
ME5KS3	08/17/2011	0.55	100
ME5KS4	08/17/2011	0.54	100
ME5KS5	08/17/2011	0.54	100
ME5KS6	08/17/2011	0.50	100
ME5KS6D	08/17/2011	0.50	100
ME5KS6S	08/17/2011	0.50	100
CCV	08/17/2011	100.00	100
CCB	08/17/2011	100.00	100
CCV	08/17/2011	100.00	100
CCB	08/17/2011	100.00	100
CCV	08/17/2011	100.00	100
CCB	08/17/2011	100.00	100

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Instrument ID: CN Analysis Method: AS

Start Date: 08/18/2011 End Date: 08/18/2011

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	0909																								X		
S5	1.0	0909																								X		
S10	1.0	0909																								X		
S100	1.0	0909																								X		
S250	1.0	0909																								X		
S500	1.0	0909																								X		
ICV	1.0	1047																								X		
ICB	1.0	1047																								X		
CCV	1.0	1047																								X		
CCB	1.0	1047																								X		
PBS	1.0	1047																								X		
ME5KR4	1.0	1047																								X		
ME5KR5	1.0	1047																								X		
ME5KR6	1.0	1047																								X		
ME5KR7	1.0	1047																								X		
ME5KR8	1.0	1047																								X		
ME5KR9	1.0	1047																								X		
ME5KS0	1.0	1054																								X		
ME5KS1	1.0	1054																								X		
ME5KS2	1.0	1054																								X		
ME5KS3	1.0	1054																								X		
ME5KS4	1.0	1054																								X		
ME5KS5	1.0	1054																								X		
ME5KS6	1.0	1054																								X		
ME5KS6D	1.0	1054																								X		
ME5KS6S	1.0	1054																								X		
ZZZZZZ	1.0	1054																										
ZZZZZZ	1.0	1054																										
ZZZZZZ	1.0	1058																										
ZZZZZZ	1.0	1058																										
CCV	1.0	1058																								X		
CCB	1.0	1058																								X		

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Instrument ID: CV2 Analysis Method: CV

Start Date: 08/18/2011 End Date: 08/18/2011

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		
S0.0	1.0	1603															X											
S0.2	1.0	1605															X											
S2.5	1.0	1607															X											
S5.0	1.0	1609															X											
S7.5	1.0	1611															X											
S10.0	1.0	1613															X											
ICV	1.0	1615															X											
ICB	1.0	1617															X											
CCV	1.0	1619															X											
CCB	1.0	1621															X											
PBS	1.0	1623															X											
ME5KR4	1.0	1625															X											
ME5KR5	1.0	1627															X											
ME5KR6	1.0	1629															X											
ME5KR7	1.0	1631															X											
ME5KR8	1.0	1633															X											
ME5KR9	1.0	1635															X											
ME5KS0	1.0	1637															X											
ME5KS1	1.0	1639															X											
ME5KS2	1.0	1641															X											
ME5KS3	1.0	1643															X											
ME5KS4	1.0	1645															X											
ME5KS5	1.0	1647															X											
ME5KS6	1.0	1649															X											
ME5KS6D	1.0	1651															X											
ME5KS6S	1.0	1654															X											
CCV	1.0	1656															X											
CCB	1.0	1658															X											
ZZZZZZ	1.0	1700																										
ZZZZZZ	1.0	1702																										
ZZZZZZ	1.0	1704																										
ZZZZZZ	1.0	1706																										
ZZZZZZ	1.0	1708																										
ZZZZZZ	1.0	1710																										
ZZZZZZ	1.0	1712																										
ZZZZZZ	1.0	1714																										
ZZZZZZ	1.0	1716																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Instrument ID: CV2 Analysis Method: CV

Start Date: 08/18/2011 End Date: 08/18/2011

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		
ZZZZZZ	1.0	1718																										
ZZZZZZ	1.0	1720																										
ZZZZZZ	1.0	1722																										
ZZZZZZ	1.0	1724																										
ZZZZZZ	1.0	1726																										
ZZZZZZ	1.0	1728																										
CCV	1.0	1730															X											
CCB	1.0	1732															X											
ZZZZZZ	1.0	1734																										
ZZZZZZ	1.0	1736																										
ZZZZZZ	1.0	1739																										
ZZZZZZ	1.0	1741																										
ZZZZZZ	1.0	1743																										
ZZZZZZ	1.0	1745																										
ZZZZZZ	1.0	1747																										
ZZZZZZ	1.0	1749																										
ZZZZZZ	1.0	1751																										
ZZZZZZ	1.0	1754																										
ZZZZZZ	1.0	1756																										
ZZZZZZ	1.0	1758																										
ZZZZZZ	1.0	1800																										
ZZZZZZ	1.0	1802																										
CCV	1.0	1804															X											
CCB	1.0	1807															X											

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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	0957	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S1	1.0	1000	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S2	1.0	1004	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S3	1.0	1007	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S4	1.0	1010	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S5	1.0	1014	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICV	1.0	1106	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	1110	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	1113	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB	1.0	1117	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV	1.0	1120	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	1124	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	1145	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	1148	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	1152																										
ZZZZZZ	1.0	1155																										
ZZZZZZ	1.0	1159																										
ZZZZZZ	1.0	1202																										
ZZZZZZ	1.0	1206																										
ZZZZZZ	5.0	1209																										
ZZZZZZ	1.0	1213																										
ZZZZZZ	1.0	1216																										
ZZZZZZ	1.0	1220																										
ZZZZZZ	1.0	1223																										
ZZZZZZ	1.0	1227																										
ZZZZZZ	1.0	1230																										
ZZZZZZ	1.0	1233																										
ZZZZZZ	1.0	1237																										
ZZZZZZ	1.0	1240																										
ZZZZZZ	1.0	1244																										
ZZZZZZ	1.0	1248																										
ZZZZZZ	1.0	1251																										
ZZZZZZ	1.0	1255																										
ZZZZZZ	1.0	1258																										
ZZZZZZ	1.0	1301																										
ZZZZZZ	1.0	1305																										
ZZZZZZ	1.0	1308																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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		
ZZZZZZ	1.0	1312																										
ZZZZZZ	5.0	1315																										
ZZZZZZ	1.0	1319																										
ZZZZZZ	1.0	1322																										
ZZZZZZ	1.0	1326																										
ZZZZZZ	1.0	1329																										
CCV	1.0	1333	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	1336	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	1341																										
ZZZZZZ	10	1345																										
ZZZZZZ	10	1348																										
ZZZZZZ	10	1352																										
ZZZZZZ	10	1355																										
ZZZZZZ	1.0	1359																										
ZZZZZZ	1.0	1403																										
ZZZZZZ	1.0	1406																										
PBS	1.0	1410	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS	1.0	1413	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	1417																										
ZZZZZZ	1.0	1420																										
ZZZZZZ	1.0	1424																										
ZZZZZZ	1.0	1428																										
ZZZZZZ	1.0	1431																										
ZZZZZZ	1.0	1435																										
ZZZZZZ	1.0	1438																										
ZZZZZZ	1.0	1442																										
CCV	1.0	1514	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	1517	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	1834	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	1837	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	1841																										
ZZZZZZ	1.0	1845																										
ZZZZZZ	1.0	1848																										
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1855																										
ZZZZZZ	1.0	1859																										
ZZZZZZ	1.0	1903																										
ZZZZZZ	1.0	1906																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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		
ZZZZZZ	1.0	1910																										
ZZZZZZ	1.0	1913																										
ZZZZZZ	1.0	1917																										
ZZZZZZ	1.0	1921																										
ZZZZZZ	1.0	1924																										
ZZZZZZ	1.0	1928																										
ZZZZZZ	1.0	1931																										
ZZZZZZ	5.0	1935																										
ZZZZZZ	1.0	1938																										
ZZZZZZ	1.0	1942																										
ZZZZZZ	1.0	1945																										
ZZZZZZ	1.0	1949																										
ZZZZZZ	1.0	1952																										
ZZZZZZ	1.0	1956																										
ZZZZZZ	1.0	1959																										
ZZZZZZ	1.0	2003																										
ZZZZZZ	1.0	2007																										
ZZZZZZ	1.0	2010																										
ZZZZZZ	1.0	2014																										
ZZZZZZ	1.0	2017																										
ZZZZZZ	5.0	2020																										
CCV	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			
CCB	1.0	2027	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	1103	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	1107	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KR4	1.0	1110	X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X			
ME5KR5	1.0	1114	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KR6	1.0	1117	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KR7	1.0	1121	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X			
ME5KR8	1.0	1125	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X			
ME5KR9	1.0	1128	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS0	1.0	1132	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS1	1.0	1135	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS2	1.0	1139	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS3	1.0	1142	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X			
ME5KS4	1.0	1146	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS5	1.0	1149	X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X			

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: _____ SDG No.: ME5KR4

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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		
ME5KS6	1.0	1153	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS6D	1.0	1156	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME5KS6S	1.0	1200		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME5KS6L	5.0	1203	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	1207																										
ZZZZZZ	1.0	1210																										
ZZZZZZ	1.0	1214																										
ZZZZZZ	5.0	1217																										
ZZZZZZ	1.0	1221																										
ZZZZZZ	1.0	1224																										
ZZZZZZ	1.0	1228																										
ZZZZZZ	1.0	1231																										
ZZZZZZ	1.0	1235																										
ZZZZZZ	1.0	1238																										
CCV	1.0	1242	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	1245	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	1248																										
ZZZZZZ	1.0	1252																										
ZZZZZZ	1.0	1255																										
ZZZZZZ	1.0	1259																										
ZZZZZZ	1.0	1302																										
ZZZZZZ	1.0	1306																										
ZZZZZZ	1.0	1309																										
ZZZZZZ	1.0	1313																										
ZZZZZZ	1.0	1316																										
ZZZZZZ	1.0	1320																										
ZZZZZZ	5.0	1326																										
ZZZZZZ	1.0	1330																										
ZZZZZZ	1.0	1333																										
ZZZZZZ	1.0	1337																										
ZZZZZZ	1.0	1341																										
ZZZZZZ	1.0	1344																										
ZZZZZZ	1.0	1348																										
ZZZZZZ	5.0	1351																										
ZZZZZZ	1.0	1355																										
ZZZZZZ	1.0	1358																										
ZZZZZZ	1.0	1402																										
ZZZZZZ	1.0	1406																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Instrument ID: P5 Analysis Method: P

Start Date: 08/19/2011 End Date: 08/22/2011

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		
ZZZZZZ	5.0	1409																										
ZZZZZZ	1.0	1413																										
ZZZZZZ	1.0	1416																										
ZZZZZZ	1.0	1420																										
ZZZZZZ	1.0	1424																										
CCV	1.0	1437	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1440	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	10	1444																										
ZZZZZZ	10	1447																										
ZZZZZZ	10	1451																										
ZZZZZZ	10	1454																										
ZZZZZZ	50	1458																										
ME5KR4	10	1501							X				X															
ME5KR5	10	1505							X																			
ME5KR7	10	1508				X							X															
ME5KR8	10	1512											X															
ME5KS3	10	1515											X															
ME5KS4	10	1519							X																			
ME5KS5	10	1522							X				X															
ZZZZZZ	10	1526																										
ZZZZZZ	10	1529																										
ZZZZZZ	10	1533																										
ZZZZZZ	50	1536																										
ZZZZZZ	10	1540																										
ZZZZZZ	10	1543																										
ME5KS6A	1.0	1547		X						X		X		X		X								X				
ZZZZZZ	1.0	1550																										
CCV	1.0	1554		X	X	X			X	X	X	X	X	X	X	X			X	X	X	X	X	X	X			
CCB	1.0	1557		X	X	X			X	X	X	X	X	X	X	X			X	X	X	X	X	X	X			

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Instrument ID: P5 Analysis Method: P

Start Date: 08/24/2011 End Date: 08/24/2011

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	1324					X																					
S1	1.0	1328					X																					
S2	1.0	1332					X																					
S3	1.0	1335					X																					
S4	1.0	1338					X																					
S5	1.0	1342					X																					
ICV	1.0	1345					X																					
ICB	1.0	1348					X																					
ICSA	1.0	1352	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB	1.0	1355	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV	1.0	1409					X																					
CCB	1.0	1412					X																					
ZZZZZZ	1.0	1416																										
ZZZZZZ	1.0	1419																										
ZZZZZZ	1.0	1422																										
ZZZZZZ	1.0	1426																										
ZZZZZZ	1.0	1429																										
ZZZZZZ	1.0	1433																										
ZZZZZZ	1.0	1436																										
ZZZZZZ	1.0	1440																										
ZZZZZZ	1.0	1443																										
ZZZZZZ	1.0	1447																										
ZZZZZZ	1.0	1450																										
ZZZZZZ	5.0	1454																										
ZZZZZZ	1.0	1457																										
ZZZZZZ	1.0	1501																										
ZZZZZZ	1.0	1504																										
ZZZZZZ	1.0	1508																										
ZZZZZZ	1.0	1511																										
ZZZZZZ	1.0	1515																										
ZZZZZZ	5.0	1518																										
ZZZZZZ	1.0	1522																										
ZZZZZZ	1.0	1525																										
ZZZZZZ	1.0	1529																										
ZZZZZZ	1.0	1533																										
ZZZZZZ	5.0	1536																										
ZZZZZZ	1.0	1540																										

Metals

13-IN

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41647 Mod. Ref. No.: SDG No.: ME5KR4

Instrument ID: P5 Analysis Method: P

Start Date: 08/24/2011 End Date: 08/24/2011

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		
ZZZZZZ	1.0	1543																										
ZZZZZZ	1.0	1547																										
ME5KS6A	1.0	1551					X																					
ZZZZZZ	1.0	1554																										
CCV	1.0	1558					X																					
CCB	1.0	1601					X																					

APPENDIX F

4-Mile Radius Maps

and Demographic Data Package

Clyde Dump Site Reassessment -- Population Data

RADIUS	TOTAL	WHITE	BLACK	INDIAN	ASIAN	HAWAII_PAC	OTHER	HOUSING
3.00 - 4.00	1707	1664	3	3	4	0	33	642
2.00 - 3.00	1999	1931	3	3	4	0	58	739
1.00 - 2.00	4468	4296	4	5	13	1	149	1685
0.50 - 1.00	1292	1233	3	2	7	1	46	497
0.25 - 0.50	150	143	0	0	2	0	5	62
0.00 - 0.25	64	61	0	0	1	0	2	27
TOTALS =	9680	9328	13	13	31	2	293	3652

NOTE: 1,506 people live within a one-mile radius of the site.

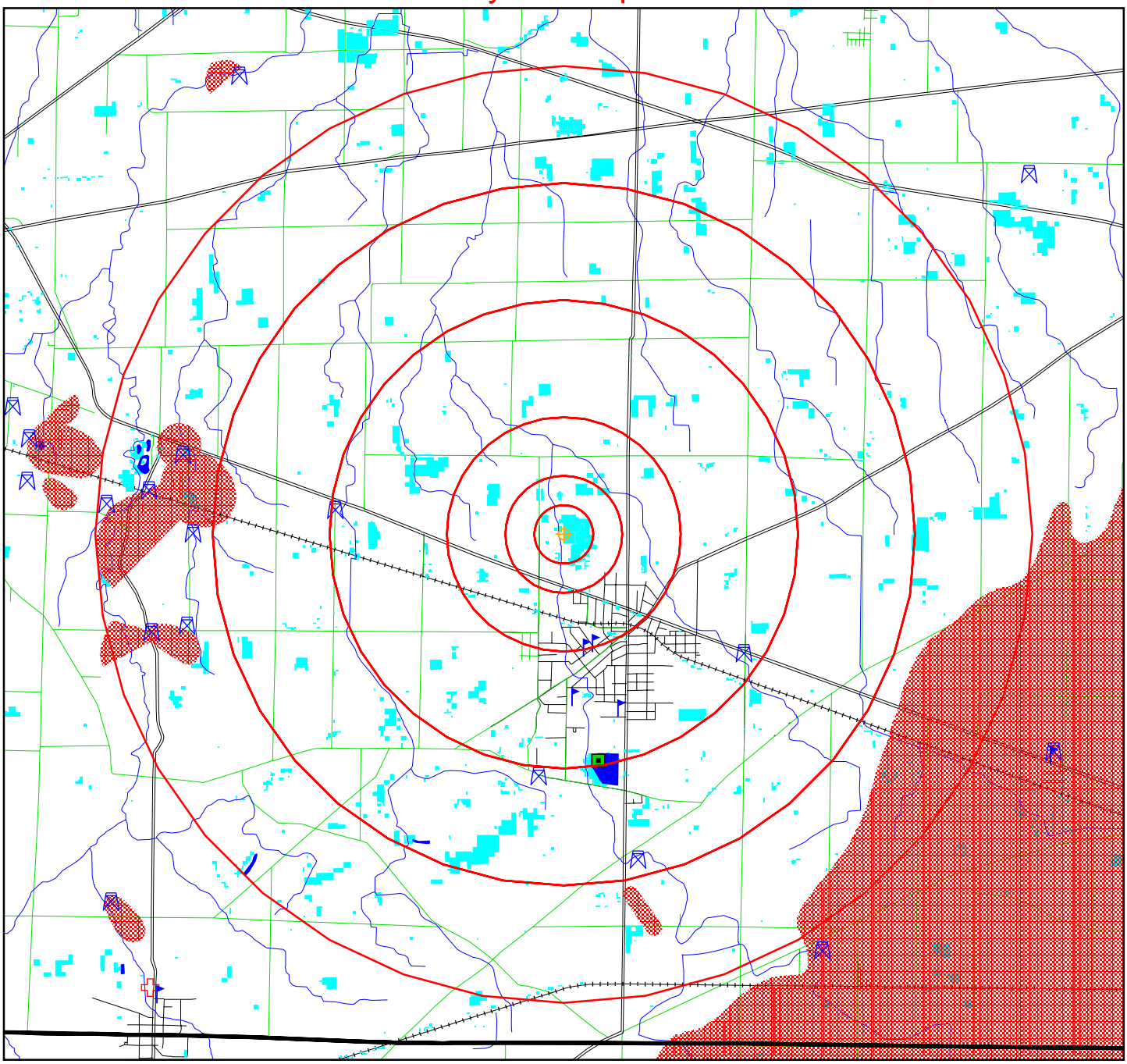
NOTE: The Easting & Northing used for the site was:
Easting (X) = 1,835,098.77 & Northing (Y) = 1,209,415.02;
[North Latitude of 41º 19' 02" and West Longitude of -82º 59' 02".]

Division of Emergency & Remedial Response

GEOGRAPHIC INFORMATION SYSTEM 4-MILE RADIUS MAP

Sandusky County -- Population & Public Water Supplies

Clyde Dump



- Site
- School
- Hospital
- Public Surface Water Systems
- Public Ground Water Systems
- US Endangered/Threatened Species
- Ohio Endangered/Threatened Species
- Wetland Area
- Lakes & Ponds
- Wellhead Protection Area
- Limit of Radius From Site
- County Boundaries
- Rivers & Streams
- Railroad
- State and Federal Highways
- Local Roads
- Municipal Roads

N

2 0 2 Miles

Clyde Dump Site Reassessment -- Public Water Supply Systems with Ground and/or Surface Water Sources

Public Water Supplies with Ground Water Sources

ID_	PWS_ID	SYS_TYPE	NAME	ADDRESS	CITY	STATE	DISTANCE	POPULATION
1	7254312	Non-Community / Transient	ESHLEMAN AMLC	781 EAST MAPLE STREET	CLYDE	OH	1.8451	28
2	7200612	Community	EMERALD ESTATES MHC	846 CO. RD. 224, LOT 76	CLYDE	OH	1.9664	135
3	7248312	Non-Community / Non-Transient	GILLIGAN'S DAY CARE	3307 LIMERICK ROAD	CLYDE	OH	2.0804	40
4	7234112	Non-Community / Transient	GREEN HILLS INN	1959 SOUTH MAIN STREET	CLYDE	OH	2.8507	195
5	7201212	Community	MID CITY MOBILE HOME PK.	740 COUNTY ROAD 212	FREMONT	OH	3.1713	390
6	7202712	Community	HILLVIEW MANOR M.H.P.	740 C.R. 212	FREMONT	OH	3.3132	45
7	7255512	Non-Community / Non-Transient	FREMONT DIE CUT PRODUCTS	3117 EAST U.S. RT. 20	FREMONT	OH	3.3232	51
8	7250612	Non-Community / Non-Transient	WAHL REFRACTORIES, INC.	P.O. BOX 530	FREMONT	OH	3.5642	51
9	7200112	Community	BOWER, RICHARD M.H.P.	1369 SOUTH S.R. 19	FREMONT	OH	3.6218	55
10	7255112	Non-Community / Transient	VEL-A-DA AMLC #3	9000 N. CO. RD. 51	GREEN SPRINGS	OH	3.9156	128

Public Water Supplies with Surface Water Sources

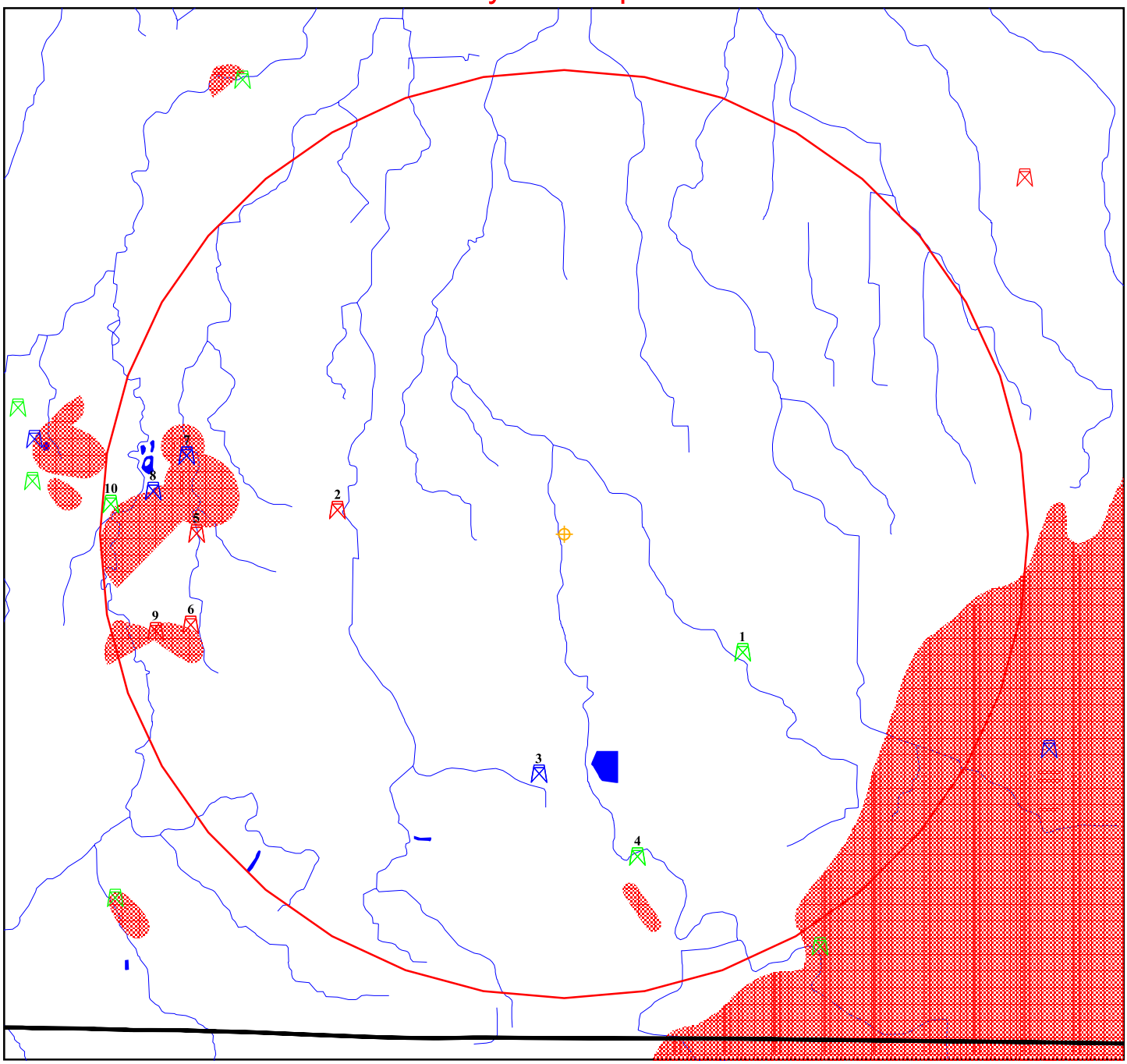
ID_	PWS_ID	SYS_SOURCE -- SYS_TYPE	NAME	ADDRESS	CITY	STATE	DISTANCE	POPULATION
1	7200211	S.W. -- Community	CLYDE, CITY OF	222 NORTH MAIN STREET	CLYDE	OH	1.9557	6000
2	7200311	S.W. -- Community	FREMONT, CITY OF	1113 TIFFIN STREET	FREMONT	OH	7.9019	20500
3	7441511	Surface Water -- Non-Community / Transient	SORROWFUL MOTHERS SHRINE	4106 ST. RT. 269	BELLEVUE	OH	11.3435	50
4	3935212	Purchased S.W. -- Non-Community / Non-Transient	LYME ELEMENTARY SCHOOL	4831 U.S. ROUTE 20 EAST	BELLEVUE	OH	12.0967	178
5	6202603	Purchased Surface Water - Community	OAK HARBOR, VILLAGE OF	228 PARK STREET	OAK HARBOR	OH	13.2859	2750
6	3900011	S.W. -- Community	BELLEVUE, CITY OF	117 NORTH SANDUSKY ST.	BELLEVUE	OH	13.4589	8136
7	6203211	Purchased Surface Water - Community	PORT CLINTON, CITY OF	205 EAST PERRY STREET	PORT CLINTON	OH	13.6150	7100
8	6205011	S.W. -- Community	OTTAWA CO. REGIONAL	1405 W. FREMONT RD.	PORT CLINTON	OH	13.6634	11280

Division of Emergency & Remedial Response

GEOGRAPHIC INFORMATION SYSTEM 4-MILE RADIUS MAP

PUBLIC GROUND WATER SYSTEMS

Clyde Dump



Site

Public Ground Water Systems
- Community
- Non-Community/Transient
- Non-Community/Non-Transient

Rivers & Streams
Wellhead Protection Area
Lakes & Ponds
Limit of Radius From Site
County Boundaries

1 0 1 Miles

N

Clyde Dump Site Reassessment --

Natural Heritage Data

ID	STATUS	DISTANCE	SCI_NAME	COM_NAME
1	State Threatened	6.1900	APOCYNUM SIBIRICUM	CLASPING-LEAVED DOGBANE
2	Federally Threatened	6.9262	PLATANTHERA LEUCOPHAEA	PRAIRIE FRINGED ORCHID
3	State Endangered	7.1949	FUNDULUS DIAPHANUS MENONA	WESTERN BANDED KILLIFISH
4	State Threatened	7.4068	PHENOPHOLIS OBTUSATA VAR OBTUSAT	PRAIRIE WEDGE GRASS
5	Federally Threatened	7.4403	PLATANTHERA LEUCOPHAEA	PRAIRIE FRINGED ORCHID
6	Federally Threatened	7.5385	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
7	Federally Threatened	7.6129	PLATANTHERA LEUCOPHAEA	PRAIRIE FRINGED ORCHID
8	State Endangered	7.8622	ELEOCHARIS ENGELMANNII	ENGELMANN'S SPIKE-RUSH
9	State Endangered	7.9036	CHLIDONIAS NIGER	BLACK TERN
10	Federally Threatened	7.9921	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
11	State Threatened	7.9941	DESCURAINIA PINNATA	TANSY MUSTARD
12	Federally Threatened	8.0337	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
13	State Endangered	8.0352	VIOLA NEPHROPHYLLA	NORTHERN BOG VIOLET
14	Federally Threatened	8.0998	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
15	Federally Threatened	8.1709	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
16	State Threatened	8.3783	ANEMONE CYLINDRICA	PRAIRIE THIMBLEWEED
17	State Threatened	8.3783	CELTIS TENUIFOLIA	DWARF HACKBERRY
18	State Threatened	8.3783	DRABA REPTANS	CAROLINA WHITLOW-GRASS
19	State Threatened	8.3783	CAREX RETROFLEXA VAR RETROFLEXA	REFLEXED SEDGE
20	State Endangered	8.3783	ARABIS HIRSUTA VAR PYCNOCARPA	WESTERN HAIRY ROCK CRESS
21	State Threatened	8.3783	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
22	Federally Threatened	8.3975	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
23	State Threatened	8.5950	BARTRAMIA LONGICAUDA	UPLAND SANDPIPER
24	State Endangered	8.8428	SISYRINCHIUM MUCRONATUM	NARROW-LEAVED BLUE-EYED-GRASS
25	State Endangered	8.8945	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
26	State Threatened	8.8945	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
27	State Threatened	8.9383	APOCYNUM SIBIRICUM	CLASPING-LEAVED DOGBANE
28	State Threatened	8.9383	HYPERICUM KALMIANUM	KALM'S ST. JOHN'S-WORT
29	State Endangered	8.9383	ARABIS HIRSUTA VAR PYCNOCARPA	WESTERN HAIRY ROCK CRESS
30	State Threatened	8.9383	CALAMINTHA ARKANSANA	LIMESTONE SAVORY
31	State Endangered	8.9468	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
32	State Threatened	9.0896	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
33	State Endangered	9.0896	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
34	State Endangered	9.1332	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
35	Federally Threatened	9.1803	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
36	State Threatened	9.2169	DRABA REPTANS	CAROLINA WHITLOW-GRASS
37	State Threatened	9.2432	SISYRINCHIUM MONTANUM	NORTHERN BLUE-EYED-GRASS
38	State Threatened	9.2662	DRABA REPTANS	CAROLINA WHITLOW-GRASS
39	State Threatened	9.2756	ARABIS HIRSUTA VAR ADPRESSIPILIS	SOUTHERN HAIRY ROCK CRESS
40	State Endangered	9.2966	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
41	State Threatened	9.2966	DESCURAINIA PINNATA	TANSY MUSTARD
42	State Threatened	9.3383	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
43	State Threatened	9.3478	CALAMINTHA ARKANSANA	LIMESTONE SAVORY
44	State Threatened	9.3478	HYPERICUM KALMIANUM	KALM'S ST. JOHN'S-WORT
45	State Endangered	9.3588	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
46	State Threatened	9.4076	CELTIS TENUIFOLIA	DWARF HACKBERRY
47	State Endangered	9.4182	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
48	State Threatened	9.4182	SALIX CANDIDA	HOARY WILLOW
49	State Threatened	9.4182	ELEOCHARIS COMPRESSA	FLAT-STEMMED SPIKE-RUSH
50	State Threatened	9.4182	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
51	State Threatened	9.4182	MYRIOPHYLLUM SIBIRICUM	AMERICAN WATER-MILFOIL

Natural Heritage Data

ID_	STATUS	DISTANCE	SCI_NAME	COM_NAME
52	State Threatened	9.4340	CALOPOGON TUBEROSUS	GRASS-PINK
53	State Endangered	9.4340	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
54	State Threatened	9.4340	HYPERICUM KALMIANUM	KALM'S ST. JOHN'S-WORT
55	State Threatened	9.4340	SALIX CANDIDA	HOARY WILLOW
56	State Threatened	9.4362	DRABA REPTANS	CAROLINA WHITLOW-GRASS
57	State Endangered	9.4538	PANICUM LINDHEIMERI	LINDHEIMER'S PANIC GRASS
58	State Endangered	9.4760	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
59	State Threatened	9.4760	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
60	State Threatened	9.5812	MOXOSTOMA VALENCIENNESI	GREATER REDHORSE
61	State Threatened	9.5817	HYPERICUM KALMIANUM	KALM'S ST. JOHN'S-WORT
62	State Threatened	9.6057	ARABIS HIRSUTA VAR ADPRESSIPILIS	SOUTHERN HAIRY ROCK CRESS
63	State Threatened	9.6057	CELTIS TENUIFOLIA	DWARF HACKBERRY
64	State Threatened	9.6057	ANEMONE CYLINDRICA	PRAIRIE THIMBLEWEED
65	State Threatened	9.6057	SISYRINCHIUM MONTANUM	NORTHERN BLUE-EYED-GRASS
66	State Threatened	9.6073	HYPERICUM KALMIANUM	KALM'S ST. JOHN'S-WORT
67	State Endangered	9.6457	ROSA BLANDA	SMOOTH ROSE
68	State Threatened	9.6931	APOCYNUM SIBIRICUM	CLASPING-LEAVED DOGBANE
69	State Threatened	9.7129	TRUNCILLA DONACIFORMIS	FAWNSFOOT
70	State Threatened	9.7129	OBLIQUARIA REFLEXA	THREEHORN WARTYBACK
71	State Threatened	9.7129	SAGITTARIA CUNEATA	WAPATO
72	State Threatened	9.7129	MYRIOPHYLLUM SIBIRICUM	AMERICAN WATER-MILFOIL
73	State Endangered	9.7129	LIGUMIA NASUTA	EASTERN PONDMUSSEL
74	State Threatened	9.8434	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
75	State Threatened	9.8434	CALAMINTHA ARKANSANA	LIMESTONE SAVORY
76	State Threatened	9.8494	CLONOPHIS KIRTLANDII	KIRTLAND'S SNAKE
77	State Endangered	9.8494	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
78	State Threatened	9.8494	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
79	State Threatened	9.8518	CALOPOGON TUBEROSUS	GRASS-PINK
80	State Endangered	9.8518	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
81	State Threatened	9.8518	HYPERICUM KALMIANUM	KALM'S ST. JOHN'S-WORT
82	State Threatened	9.8518	CALAMINTHA ARKANSANA	LIMESTONE SAVORY
83	State Threatened	9.8518	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
84	State Threatened	10.0088	CALAMINTHA ARKANSANA	LIMESTONE SAVORY
85	State Endangered	10.1420	ROSA BLANDA	SMOOTH ROSE
86	Federally Threatened	10.1443	NERODIA SIPEDON INSULARUM	LAKE ERIE WATER SNAKE
87	State Endangered	10.3339	CYPRIPEDIUM CANDIDUM	WHITE LADY'S-SLIPPER
88	State Endangered	10.3543	SISTRURUS CATENATUS	EASTERN MASSASAUGA
89	State Endangered	10.3543	LIGUMIA NASUTA	EASTERN PONDMUSSEL
90	State Threatened	10.3543	SAGITTARIA RIGIDA	DEER'S-TONGUE ARROWHEAD
91	State Threatened	10.3543	TRUNCILLA DONACIFORMIS	FAWNSFOOT
92	State Endangered	10.3543	RALLUS ELEGANS	KING RAIL
93	State Threatened	10.3543	IXOBRYCHUS EXILIS	LEAST BITTERN
94	State Threatened	10.3543	OBLIQUARIA REFLEXA	THREEHORN WARTYBACK
95	State Threatened	10.4680	APOCYNUM SIBIRICUM	CLASPING-LEAVED DOGBANE
96	State Endangered	10.4826	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE
97	State Threatened	10.5009	CALAMINTHA ARKANSANA	LIMESTONE SAVORY
98	State Threatened	10.5135	ZIZANIA AQUATICA	WILD RICE
99	State Threatened	10.5772	ZIZANIA AQUATICA	WILD RICE
100	State Endangered	10.5933	ROSA BLANDA	SMOOTH ROSE
101	State Threatened	10.6705	CLEMMYS GUTTATA	SPOTTED TURTLE
102	State Endangered	10.6876	LIGUMIA NASUTA	EASTERN PONDMUSSEL

Natural Heritage Data

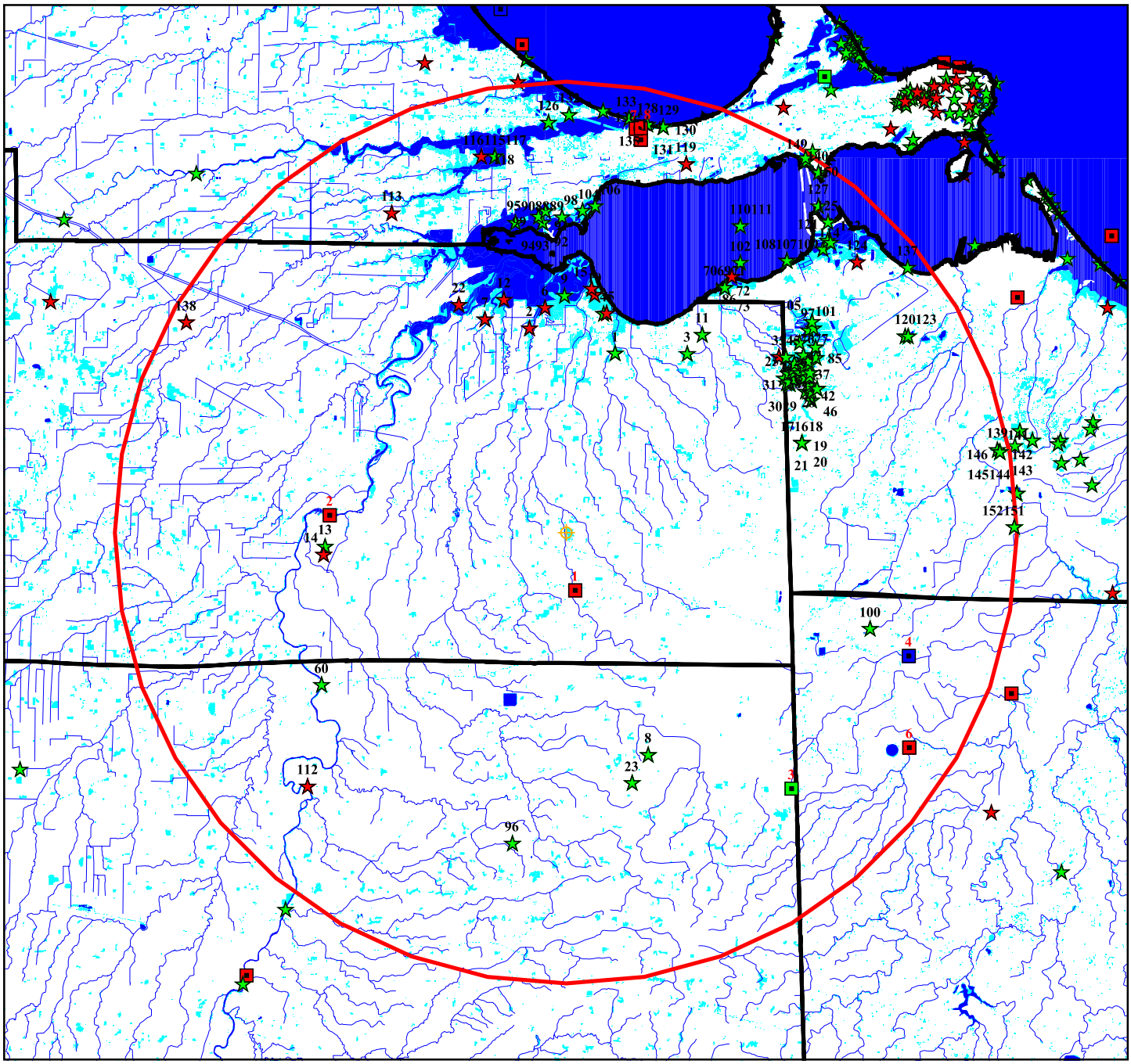
ID	STATUS	DISTANCE	SCI NAME	COM NAME
103	State Threatened	10.7302	ZIZANIA AQUATICA	WILD RICE
104	State Threatened	10.7333	APOCYNUM SIBIRICUM	CLASPING-LEAVED DOGBANE
105	State Threatened	10.7633	SENECIO PAUPERCULUS	BALSAM SQUAW-WEED
106	State Threatened	10.9120	SAGITTARIA CUNEATA	WAPATO
107	State Threatened	11.6511	OBLIQUARIA REFLEXA	THREEHORN WARTYBACK
108	State Threatened	11.6511	TRUNCILLA DONACIFORMIS	FAWNSFOOT
109	State Endangered	11.6511	LIGUMIA NASUTA	EASTERN PONDMUSSEL
110	State Threatened	11.7413	OBLIQUARIA REFLEXA	THREEHORN WARTYBACK
111	State Threatened	11.7413	TRUNCILLA DONACIFORMIS	FAWNSFOOT
112	Federally Threatened	12.0376	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
113	Federally Threatened	12.1246	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
114	State Threatened	12.7190	IXOBRYCHUS EXILIS	LEAST BITTERN
115	State Endangered	12.7439	RALLUS ELEGANS	KING RAIL
116	State Endangered	12.7439	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN
117	State Threatened	12.7439	IXOBRYCHUS EXILIS	LEAST BITTERN
118	Federally Threatened	12.8375	NERODIA SIPEDON INSULARUM	LAKE ERIE WATER SNAKE
119	Federally Threatened	12.9047	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
120	State Threatened	13.0271	ELEOCHARIS COMPRESSA	FLAT-STEMMED SPIKE-RUSH
121	State Threatened	13.0394	APOCYNUM SIBIRICUM	CLASPING-LEAVED DOGBANE
122	State Threatened	13.0541	SAGITTARIA CUNEATA	WAPATO
123	State Threatened	13.1144	CALAMINTHA ARKANSANA	LIMESTONE SAVORY
124	Federally Threatened	13.2147	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
125	State Endangered	13.5047	POTENTILLA PARADOXA	BUSHY CINQUEFOIL
126	State Threatened	13.6738	CYPERUS SCHWEINITZII	SCHWEINITZ' UMBRELLA-SEDGE
127	State Endangered	13.7263	FUNDULUS DIAPHANUS MENONA	WESTERN BANDED KILLIFISH
128	State Endangered	13.8522	LAMPSILIS OVATA	POCKETBOOK
129	State Endangered	13.8857	SCIRPUS SMITHII	SMITH'S BULRUSH
130	State Threatened	13.8857	LIGUMIA RECTA	BLACK SANDSHELL
131	State Threatened	13.8857	CYPERUS SCHWEINITZII	SCHWEINITZ' UMBRELLA-SEDGE
132	State Threatened	13.9066	IXOBRYCHUS EXILIS	LEAST BITTERN
133	State Threatened	13.9565	OBLIQUARIA REFLEXA	THREEHORN WARTYBACK
134	State Endangered	13.9565	LIGUMIA NASUTA	EASTERN PONDMUSSEL
135	State Threatened	13.9565	TRUNCILLA DONACIFORMIS	FAWNSFOOT
136	State Threatened	14.0876	CYPERUS SCHWEINITZII	SCHWEINITZ' UMBRELLA-SEDGE
137	State Threatened	14.3737	OBLIQUARIA REFLEXA	THREEHORN WARTYBACK
138	Federally Threatened	14.4605	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
139	State Endangered	14.5908	XYRIS TORTA	TWISTED YELLOW-EYED-GRASS
140	State Threatened	14.6260	SAGITTARIA CUNEATA	WAPATO
141	State Endangered	14.6650	HYPERICUM CANADENSE	CANADA ST. JOHN'S-WORT
142	State Threatened	14.6650	LIPOCARPHA MICRANTHA	DWARF BULRUSH
143	State Endangered	14.6650	XYRIS TORTA	TWISTED YELLOW-EYED-GRASS
144	State Threatened	14.6650	CAREX CONOIDEA	FIELD SEDGE
145	State Threatened	14.6650	ASTER DUMOSUS	BUSHY ASTER
146	State Endangered	14.6650	HYPERICUM GYMNANTHUM	LEAST ST. JOHN'S-WORT
147	State Endangered	14.6650	JUNCUS PLATYPHYLLUS	FLAT-LEAVED RUSH
148	State Threatened	14.6650	APOCYNUM SIBIRICUM	CLASPING-LEAVED DOGBANE
149	State Endangered	14.7215	ROSA BLANDA	SMOOTH ROSE
150	State Threatened	14.7869	SAGITTARIA CUNEATA	WAPATO
151	State Threatened	14.9000	EUTHAMIA REMOTA	GREAT LAKES GOLDENROD
152	State Threatened	14.9000	HELIANTHUS MOLLIS	ASHY SUNFLOWER

Division of Emergency & Remedial Response

GEOGRAPHIC INFORMATION SYSTEM 15-MILE RADIUS MAP

NATURAL HERITAGE DATA

Clyde Dump



Site

US Endangered/Threatened Species

Ohio Endangered/Threatened Species

Public Surface Water Systems

Community

Non-Community/Transient

Non-Community/Non-Transient

Rivers & Streams

Wetland Area

Lakes & Ponds

Limit of Radius From Site

County Boundaries

4 0 4 8 Miles

N