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DIVISION OF ENVIRONMENTAL
RESPONSE AND REMEDIATION

Brent H. Everett
Director

1884967

ERRC-065-17

June 1, 2017

Ryan Dunham
Site Assessment Manager
U.S. EPA Region 8, 8EPR-AR
1595 Wynkoop Street
Denver, Colorado 80202-1129

Dear Mr. Dunham:

Enclosed is the *Expanded Site Investigation* (ESI) *Analytical Results Report* (ARR) for the **5600 South 900 East Plume** Site (Site). The report includes modifications requested in your review.

The Site is a chlorinated solvent groundwater plume located approximately at the intersection of 5600 South 900 East in Murray, Salt Lake County, Utah. The Site was discovered through a 2002 leaking underground storage tank investigation. Chlorinated solvents, including tetrachloroethene, trichloroethene, 1,2-dichloroethene, and vinyl chloride were identified in groundwater near a 7-Eleven store located at 5585 South 900 East. A subsequent 2008 Site Investigation (SI) identified chlorinated solvent groundwater contamination near the present location of Red Hanger Cleaners at 926 East 5600 South and near the previous location of a Red Hanger Cleaners at 5575 South 900 East. A Pizza Hut presently operates at 5575 South 900 East. The purpose of the ESI was to determine if the groundwater plume extended north from the Site in the direction of the groundwater flow.

The ESI included the collection of soil and groundwater samples from nine borings starting at the known contaminant location and proceeding north along 900 East Street approximately 450 yards to 5400 South Street. No groundwater contamination was detected beyond the sample collected near the Quick Lube store at 5555 South 900 East. Chlorinated solvent groundwater contamination detected during both the 2008 SI and the 2011 ESI is limited to a four-acre area from the Jiffy Lube and Red Hanger Cleaners on the south to the Quick Lube and east parking lot of the Sports Authority on the north. The plume appears to be associated with a Red Hanger Cleaners that historically operated at 5575 South 900 East from 1975 until at least 1985, and the current operational location of Red Hanger Cleaners at 926 East 5600 South since 1991.

Air sampling results from inside a Chase Bank located just north of the Site indicate that the bank employees are not exposed at this time to Site contaminants at a level that would be considered a public health risk. Chlorinated solvents have not been detected in the nearest public drinking water

195 North 1950 West • Salt Lake City, UT
Mailing Address: P.O. Box 144840 • Salt Lake City, UT 84114-4840
Telephone (801) 536-4100 • Fax (801) 359-8853 • T.D.D. (801) 536-4284
www.deq.utah.gov
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well to date. Much of the Site is covered with asphalt and the threat of exposure via the soil exposure pathway is relatively low. Therefore, we recommend that the Site be assigned a No Further Remedial Action Planned designation.

If you have any questions concerning the contents of the ARR, please contact Neil Taylor at (801) 536-4102 or by email at nbtaylor@utah.gov.

Sincerely,

Dale T. Urban

Dale T. Urban P.G,
Site Assessment Section Manager
Division of Environmental Response and Remediation

DTU/NBT/ab

Enclosure

cc: Royal DeLegge MPA, EHS, Director, Salt Lake County Health Department (w/o enclosure)

UTAH DEPARTMENT *of*
ENVIRONMENTAL QUALITY
ENVIRONMENTAL RESPONSE
& REMEDIATION

EXPANDED SITE INVESTIGATION

ANALYTICAL RESULTS REPORT

5600 SOUTH 900 EAST PLUME

Salt Lake County, Utah
UTN000802664

Prepared by Neil Taylor
Utah Division of Environmental Response and Remediation

May 2017

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Salt Lake County, Utah
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Prepared by Neil Taylor
Project Manager

Utah Division of Environmental Response and Remediation
195 North 1950 West
Salt Lake City, UT 84116

May 2017

Approved: N. Taylor Date: 5/22/17
Neil Taylor, UDEQ Project Manager

Approved: Dale T. Urban Date: 5/31/17
Dale T. Urban, UDEQ Site Assessment Section Manager

Approved: Date: 6/6/17
Ryan Dunham, Site Assessment Manager, EPA Region 8

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1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, and in accordance with applicable provisions of the National Contingency Plan, the Utah Department of Environmental Quality (DEQ), Division of Environmental Response and Remediation (DERR) has prepared this Analytical Results Report (ARR) as part of Expanded Site Investigation (ESI) activities at the **5600 South 900 East PCE Plume, UTN000802664,** (referred to as "Site") in Murray City, Salt Lake County, Utah. This ARR was prepared under a cooperative agreement between DERR and the U.S. Environmental Protection Agency, Region 8 (EPA). The sampling described in this report was used to evaluate potential groundwater and soil contamination in an attempt to delineate possible exposure pathways and targets. Nine soil and 12 water samples were collected on September 26 and 28, 2011. Sampling followed protocols identified in an ESI Work Plan that was approved by EPA Region 8 on May 15, 2011.

2.0 OBJECTIVES

The results from the ARR will be used to evaluate if significant releases occurred or exist to warrant "listing" the Site on the EPA's National Priorities List or cleanup of the Site under some other program or authority. Environmental samples were collected from both on-site and off-site locations to determine the presence of contamination from past dry cleaning activities in the area.

The objectives of this ESI were to:

- Expand Site sampling to identify potential routes of contaminant migration and groundwater plume boundaries;
- Assess the Site setting and evaluate potential contaminant source(s);
- Determine whether hazardous constituents from the Site are migrating or have the ability to migrate off-site via the groundwater pathway;
- Assess the potential impact and identify exposure risks for human health and environmental targets associated with the groundwater pathway;
- Identify potential targets that may be affected by on-site contamination as well as other targets that may be impacted by the migration of the contamination via the suspected exposure pathways; and,
- Determine if a continued assessment under CERCLA authority is warranted.

3.0 SITE LOCATION AND DESCRIPTION

The Site is located in Murray, Salt Lake County, Utah (Figure 1). The geographical coordinates for the Site are 40° 38' 58" north latitude and 111° 51' 57" west longitude. The elevation of the Site is approximately 4,342 feet above mean sea level.

The area immediately surrounding the Site is zoned by the City of Murray as commercial development conditional (Viehweg, 2009). There are many retail shops and businesses in the general area with a residential community just beyond this area. The area is mostly covered with asphalt, sidewalks, and buildings.

To reach the Site from Salt Lake City, travel south from I-80 West/I-215 for about 11.6 miles. Take exit 11 to US-89/State Street and turn north onto State Street/US-89 for 0.1 miles. Turn east onto East Winchester Street for 1.3 miles. Turn north onto 900 East and travel for 1.2 miles.

4.0 SITE HISTORY AND PREVIOUS WORK

4.1 Site History

The Red Hanger Cleaners, currently located at 926 East 5600 South, has been in operation since at least 1991. Red Hanger Cleaners is approximately 70 yards southeast and upgradient from the old business location at 5575 South 900 East (Polk, R. L., and Co., 1950). A Pizza Hut restaurant now is located at 5575 South 900 East (Figure 2). The Site plume central point is based on the highest chlorinated solvent levels in groundwater detected during the 2002 SECOR International Incorporated (SECOR) investigation described in Section 4.2.1 (SECOR International Incorporated, 2003).

There are two auto repair shops in close proximity to the Site. These businesses include the Jiffy Lube located across the street to the south of the 7-Eleven store and Fisher's Creative Car Care located at 929 East 5600 South (Figure 2 and 3).

4.2 Previous Work

4.2.1 SECOR Underground Storage Tank Removal

In October 2002, SECOR, a private consulting firm, removed three underground storage tanks (USTs) at a 7-Eleven store located at 5585 South 900 East in Murray. Subsurface investigations were performed in connection with the UST site. Elevated levels of tetrachloroethene (PCE) at 2.3 to 500 micrograms per liter (µg/L), trichloroethene (TCE) at 2.1 to 54 µg/L, cis-1,2-dichloroethene (cis-1,2-DCE) at 2.8 to 67 µg/L, and vinyl chloride (VC) at 1.6 µg/L to 11 µg/L were detected (SECOR International Incorporated, 2003). The Superfund Chemical Data Matrix (SCDM) drinking water Maximum Contaminant Level (MCL) is 5 µg/L for PCE and TCE, 70 µg/L for cis-1,2-DCE, and 2 µg/L for VC (U.S. EPA, 2016).

SECOR also conducted a separate subsurface investigation at Jiffy Lube located directly across the street south of the 7-Eleven store at 5601 South 900 East. PCE was detected in groundwater at a concentration of 100 µg/L at Jiffy Lube on March 11, 1999. TCE, cis-1,2-DCE, and VC were not detected (SECOR International Incorporated, 2003).

4.2.2 Preliminary Assessment

The DERR completed a Preliminary Assessment (PA) report for the 5600 South 900 East Plume Site in July 2008 with a recommendation for further assessment in response to the concern that the chlorinated solvent plume might contaminate the New Howe well that serves as a municipal water source for approximately 6,000 persons. A Site Investigation Work Plan (SI) was completed in September of 2008. The New Howe well is located about 0.1 miles southeast of the Site (Figure 1). Concern was expressed that subsurface migration of the groundwater plume to the northwest, in the general direction of the Mick Riley Golf Course, could impact a small stream that runs the length of the golf course and flows to both Big and Little Cottonwood Creeks.

4.2.3 2008 Site Investigation

Sampling was conducted December 2 through 5, 2008 and involved the collection of 12 groundwater and 11 soil samples from 11 borings, including some near three Murray City municipal wells. The wells include the New Howe Well, the Highland Dairy Well, and the 5th East #3 Well. Analytical laboratory results from this sampling event confirmed the presence of PCE, TCE, cis-1,2-DCE, VC and other contaminants in shallow groundwater. PCE, TCE, cis-1,2-DCE and VC concentrations were highest in the groundwater and soil samples collected from the Chase Bank property borehole located in the bank parking lot just north of the 5575 South 900 East Pizza Hut, the historic operating location of Red Hanger Cleaners.

PCE and TCE were detected at 2,300 µg/L and 97 µg/L respectively in the groundwater; however, these contaminants were not detected in the soil. Cis-1,2-DCE and VC were detected at 4,700 µg/L and 150 µg/L in the groundwater and 920 µg/kg and 82 µg/kg in the soil respectively. PCE and TCE were also detected to a lesser extent in the groundwater samples collected adjacent to the currently operating Red Hanger Cleaners and in the groundwater beneath Jiffy Lube. No soil contamination was detected at either of these sites. Samples collected from the three Murray City municipal wells were free of contaminants.

During the 2008 sampling event, a black oily substance with a strong petroleum odor was incidentally discovered in the soil and groundwater at the southwest corner of the 7-Eleven parking lot. This was the area where the USTs had been removed (as described earlier in Section 4.2.1) and is the Site center point. An extra groundwater sample was collected and analyzed. Laboratory results detected the presence of gasoline range organics most likely from an underground storage tank petroleum release. As significant chlorinated solvent contamination was detected in groundwater, additional investigation under CERCLA was warranted to fully characterize the extent of contamination.

4.3 Expanded Site Investigation Field Activities

Elevated chlorinated solvent concentrations detected in groundwater during the 2008 SI from the Chase Bank property, Jiffy Lube, and Red Hanger Cleaners, prompted an Expanded Site Investigation to clarify the lateral contamination extent and to evaluate the potential for on and off-site exposures. Nine soil and groundwater sample locations were randomly selected downgradient from the historic Red Hanger dry cleaner to provide spatial variability for the collected data and identify potential contaminant sources and the lateral extent of the chlorinated solvent contamination. A summary of the environmental samples collected is shown in Table 1.

A *Consent For Access To Property* form was signed by the respective property owners prior to sample collection. An example of the form is provided in Appendix A. Sampling proceeded according to methods outlined in the DERR Quality Assurance Program Plan for Environmental Operations (QAPP) of September 2011 and other relevant EPA guidance documents. All sampling events were recorded in a field logbook. Field conditions at times required a deviation from the approved Site Work Plan. The DERR Field Activities Report and photolog is included in Appendix B, and the URS Operation Services Trip Report is included as Appendix C.

4.4 Deviations From the Work Plan

The following are deviations from the EPA-approved Site Investigation Work Plan for the Site (Viehweg, 2009).

- No opportunity samples were collected.
- The drill rig broke down on September 26, 2011, requiring a two-day delay in completing groundwater sampling. Samples collected on September 26, 2011, were sent to the laboratory that day. Samples collected on September 28, 2011, were also forwarded to the laboratory that day. The Chain of Custody Forms and shipping documentation are included as Appendix D.
- The delay in completing sampling required the inclusion of a second trip blank sample.
- Calcium hardness in groundwater samples effervesced with the hydrochloric acid routinely used as a preservative in water samples to be analyzed for VOCs; therefore, hydrochloric acid was not utilized for the groundwater samples, and the samples were analyzed at the laboratory within seven days.

4.5 Waste Characteristics

PCE is commonly used as a solvent in the dry cleaning industry and for metal degreasing in auto repair shops. TCE, cis-1,2-DCE and VC are by-products of PCE as it breaks down and degrades. Historically, little to no oversight or guidance was provided to the dry cleaning industry for the proper handling or disposal or PCE solvents or wastes. It was a commonplace practice to discard PCE waste on the ground as a method of disposal. As late as 1968, information in "Chemical Safety Data Sheets" by the Manufacturing Chemists' Association stated PCE "may be poured on dry sand, earth or ashes...and allowed to evaporate into the atmosphere" (Pankow and Cherry, 1996).

Exposure to very high concentrations of PCE can cause dizziness, headaches, sleepiness, confusion, nausea, difficulty in speaking and walking, unconsciousness and death. It is a nonflammable liquid at room temperature. It evaporates easily into the air and has a sharp, sweet odor. Most people can smell PCE when it is present in the air at a level of one part per million parts of air (1 ppm) or more, although some can smell it at lower levels. Much of the PCE that gets into water or soil evaporates into the air. Microorganisms can break down some of the PCE in soil or groundwater under rare conditions. In the air, it is broken down by sunlight into other chemicals or brought back to the soil and water by rain. PCE has not been shown to bioaccumulate in fish or other animals

that live in water. The U.S. Department of Health and Human Services (DHHS) has determined that PCE may reasonably be anticipated to be a carcinogen. PCE has been shown to cause liver tumors in mice and kidney tumors in male rats (Agency for Toxic Substances and Disease Registry, 1997b).

TCE is a colorless liquid that is used as a solvent for cleaning metal parts and can be a byproduct of PCE biodegradation. Drinking or breathing high levels of TCE may cause nervous system effects, liver and lung damage, abnormal heartbeat, coma and possibly death. TCE is a nonflammable, colorless liquid with a somewhat sweet odor and a sweet, burning taste. It is used mainly as a solvent to remove grease from metal parts, but it is also an ingredient in adhesives, paint removers, typewriter correction fluids, and spot removers. TCE dissolves a little in water but can remain in groundwater for a long time. It quickly evaporates from surface water, so it is commonly found as a vapor in the air. TCE evaporates less readily from the soil than from surface water and may persist in the environment by sticking to soil particles. It may stick to particles in water, which will cause it to settle eventually to the bottom sediment. TCE has not been shown to build up significantly in plants and animals. Both the National Toxicology Program and International Agency for Research on Cancer have determined that TCE is a probable human carcinogen (ATSDR, 2014).

Cis-1,2-DCE is a highly flammable, colorless liquid with a sharp, harsh odor. It is used to produce solvents and also used in chemical mixtures. Slight amounts of it can be smelled in the air. Cis-1,2-DCE evaporates rapidly into the air. Cis-1,2-DCE can travel through soil or dissolve in water in the soil. It is possible that it can contaminate groundwater. In groundwater, it takes about 13-48 weeks to break down. Breathing high levels of cis-1,2-DCE can cause nausea and fatigue. Breathing very high concentrations is potentially lethal. Lower doses of cis-1,2-DCE can cause effects on the blood, such as decreased numbers of red blood cells, and also affects the liver. Chronic human health effects of exposure to low concentrations of cis-1,2-DCE are not known. The EPA has determined that cis-1,2-DCE is not classifiable as to its human carcinogenicity (Agency for Toxic Substances and Disease Registry, 1997a).

Vinyl chloride is a colorless gas. It burns quickly and is not stable at high temperatures. It has a mild, sweet odor. Vinyl chloride does not occur naturally. It can be formed when other substances such as PCE and TCE degrade. Exposure to vinyl chloride occurs mainly in the workplace. The U.S. DHHS has determined that vinyl chloride is a known carcinogen. Breathing high levels of vinyl chloride for short periods can cause dizziness, sleepiness, unconsciousness, and at extremely high concentrations can cause death. Breathing vinyl chloride for long periods can result in permanent liver damage, immune reactions, nerve damage, and liver cancer. Liquid vinyl chloride evaporates easily. Vinyl chloride in water or soil rapidly evaporates if it is near the surface and exposed to the atmosphere. Vinyl chloride in the air breaks down in a few days to other substances, some of which can be harmful (Agency for Toxic Substances and Disease Registry, 2006).

4.6 Site Characteristics

4.6.1 Physical Geography and Climate

The Salt Lake Valley is characterized by a semi-arid climate. The normal maximum temperature ranges from 37° F in January to 93.7° F in July. The normal minimum temperature varies from 19.7° in January to 61.8° in July. Average annual rainfall for the Salt Lake Valley is 21 inches per year with a monthly high of 2.59 inches in April and a standard monthly low of 0.98 inches in July. Average annual snowfall is about 30 inches. The estimated pan evaporation is about 48 inches per year. Winds are predominantly from the south and southwest with a mean speed of 4 to 5 miles per hour (Brough et al., 1987; Ashcroft et al., 1992).

4.6.2 Geology and Hydrogeology

The geology and soil conditions for the Site are determined by its northwest location in the Salt Lake Valley, which lies between the Wasatch Mountains to the east and the Oquirrh Mountains to the west. Basin fill deposits were eroded from these adjacent mountain ranges and deposited in the Salt Lake and local valleys. The fine-grained sediments were deposited towards the center of the valley while the coarser-grained sediments were deposited along the benches and valley margins. The general stratigraphy of the area is characterized by several hundred feet of unconsolidated to poorly consolidated alluvial and lacustrine deposits. These interbedded and highly lenticular sands, silty sands, silts and clays of the Salt Lake Formation are estimated to be more than 500 feet thick (Hintze and Kowallis, 2009).

The Site is located in a commercial/retail area and is surrounded by a densely populated residential community. Most of the Site is covered with asphalt and concrete parking lots, sidewalks, and commercial structures. Thin strips of grassy/vegetated areas are present on the Site. Native soils consist primarily of fine-grained lacustrine deposits composed of brown clayey silts (ML) and silty sands (SM) to 12 feet below ground surface (bgs). The ground beneath Jiffy Lube consists primarily of poorly graded, medium to fine-grained sand with silt (SM-SP) to a soil sampling depth of eight feet bgs (SECOR International Incorporated, 1999).

Salt Lake Valley is composed of a four aquifer system: (1) a shallow, unconfined (water table) aquifer in the center of the valley; (2) a deep unconfined (water table) aquifer on the margins of the valley; (3) a deep, confined (artesian) aquifer in the valley center; and, (4) locally perched aquifers. The Site is located in the secondary recharge area where subsurface clay layers are discontinuous and may not confine and isolate the deep aquifer from surface recharge (Thiros S.A, 2010). The shallow aquifer is recharged primarily by an upward flow of water from the deeper portions of the aquifer, and secondly by the downward infiltration of precipitation, snowmelt and surface water. The shallow aquifer is typically not used as a drinking water source because it yields water slowly, is generally of poor chemical quality (calcareous and saline-alkaline), and higher quality sources are readily available (Waddell et al., 1987). In general, groundwater flow is from the mountain fronts toward the Jordan River and subsequently to the northwest and the Great Salt Lake (Anderson et al., 1994). During the 2011 sampling event, shallow groundwater depth at the Site was found to be 7–8 feet bgs. The direction of shallow and deep groundwater flow is generally to the west-northwest (SECOR International Incorporated, 1999).

4.6.3 Hydrology

The topography of the Site is predominantly flat with a gentle slope toward the northwest. Because the Site is primarily covered with asphalt or concrete, most of the surface runoff is collected in a storm drain system. On portions of the Site not covered by asphalt or concrete, the precipitation percolates into the subsurface. Surface runoff from the Site may also flow into Big Cottonwood Creek (located approximately 1.1 miles north of the Site), Little Cottonwood Creek (located approximately 0.5 miles west of the Site) and into a nearby small annual stream at the Mick Riley Golf Course (located about 0.3 miles northwest of the Site). Creeks and streams in the area eventually flow into the Jordan River and ultimately into the Great Salt Lake (Viehweg, 2009).

5.0 AIR PATHWAY

Because of their high vapor pressure, chlorinated solvents can volatilize from the groundwater and migrate by vapor intrusion into the unsaturated zone above the water table (Schwille, 1988). Since the water table is relatively shallow, the air exposure pathway may pose a threat to targets located in the areas overlying the contaminated groundwater. The area of highest contamination in the 2008 sampling event occurred adjacent to the Pizza Hut and Chase Bank. In September 2010, JP Morgan Chase Bank conducted indoor air sampling of the Chase Bank Branch for volatile organic compounds (VOCs). Samples were collected by Wasatch Environmental into six-liter Summa canisters over an eight-hour period. One sample was collected from the customer service area and another sample from outside the building entrance.

Samples were analyzed by ALS laboratories using EPA method TO-15. PCE was detected in the building at 3.9 $\mu g/m^3$. This concentration is below the EPA SCDM Cancer Risk Screening Concentration (CRSC) benchmark of 9.3 $\mu g/m^3$ and below the SCDM non-cancer Reference Dose Screening Concentration (RDSC) benchmark of 40 $\mu g/m^3$. Additionally, benzene was detected at a concentration of 1.6 $\mu g/m^3$. This exceeds the 0.31 $\mu g/m^3$ CRSC benchmark but is below the 30 $\mu g/m^3$ RDSC (Wasatch Environmental, 2010; U.S. EPA, 2016). CRSC benchmarks are based on 24-hour exposure. The EPA Regional Screening Level establish for workers is 1.6 $\mu g/m^3$ (U.S. Environmental Protection Agency, 2016).

5.1 Sample Locations

Ambient air is not a concern at the Site as the area is completely covered with asphalt and buildings with very little landscaping or exposed soil. The Site is located within 100 feet of the Chase Bank and the Pizza Hut restaurant. The restaurant is well ventilated, and an indoor air assessment had already been completed at Chase Bank; therefore, air sampling was not conducted as part of this ESI.

5.2 *Air Pathway Conclusions*

No other business or homes are located within 100 feet of the Site. No daycares or schools are located within 200 feet of the Site. Air sampling results inside the Chase Bank appear to indicate that the bank employees are not exposed to Site contaminants at this time at a level that would be considered a public health risk.

6.0 GROUNDWATER PATHWAY

6.1 *Groundwater Sample Locations*

Groundwater sample locations are provided in Figures 3 and 4. Groundwater and soil sample locations were selected based on areas suspected to be contaminated by PCE, TCE, cis-1,2-DCE and VC, historical information and the direction of groundwater flow. The groundwater samples were collected through direct-push borings installed downgradient from the Site. All groundwater samples were collected, unfiltered, using a peristaltic pump and placed directly into 40-milliliter (mL) vial sample containers and placed on ice in a cooler. The background soil sample (5600E-SO-10) and background groundwater sample (5600E-GW-010) were collected about 0.5 miles south of the Site (Figure 4). The remainder of the 2008 SI soil and groundwater samples were collected beginning 70 feet north of the highest concentration of chlorinated solvent contamination found in soil and groundwater and proceeded north-northwest, downgradient approximately 0.25 miles (Figure 3).

6.2 *Groundwater Analytical Results*

The groundwater samples were analyzed for low-level volatiles organic compounds by SOM01.2, which is an EPA-approved laboratory method. Analytical results for the groundwater samples are presented in Table 2.

As specified by the HRS, analytical results from field samples were compared to analytical results from the background sample and to sample quantitation limits (SQL) for determining an "observed release." The observed release criteria for groundwater or surface water are met under the following conditions:

- If a background concentration is not detected, an observed release is established when the sample concentration equals or exceeds the SQL and the contaminant is attributable to the Site; or
- If the background concentration equals or exceeds the detection limit, an observed release is established when the sample concentration "significantly exceeds" the background level and the contaminant is attributable to the Site. Generally, "significantly exceeds" is defined to be situations where the sample concentration exceeds the background concentration by at least three times (U.S. EPA, 1990).

There are three benchmark values applicable to groundwater, and the lowest (i.e. most conservative) is the one used by the HRS. The three applicable benchmarks are 1) CRSC, 2) RDSC, and 3) MCL. The SCDM benchmark values are included in Table 2 (U.S. EPA, 2016).

No groundwater samples exceeded SCDM benchmarks for chlorinated solvents. Sample 5600E-GW-03 collected north of the historic location of Red Hanger Cleaners and west of the entrance to the Chase Bank (5561 South 900 East), yielded concentrations of several volatile organic compounds (VOCs) above background concentrations and concentrations of several VOCs associated with petroleum products above SCDM benchmarks for drinking water. This sample also yielded a concentration of 1.9 µg/L of trans-1,2-dichloroethene (a PCE breakdown product). This concentration is far below the 100 µg/L drinking water MCL. No other PCE breakdown products were identified in this sample. The EPA drilling contractor noted in the trip report that the groundwater from this same location had a slight petroleum-like odor, but no sheen was observed. VOCs detected above SCDM drinking water benchmarks in sample 5600E-GW-03 included the following:

- Benzene detected at 14 µg/L, which exceeds the CRSC of 1.2 µg/L.
- Ethylbenzene detected at 9.2 µg/L, exceeds the CRSC of 6.1 µg/L.

PCE at 1 µg/L was detected in the sample collected near the Quick Lube facility (5600E-GW-04). Trace PCE soil contamination was also detected at this location (0.27 µg/kg). This soil sample was collected immediately above groundwater and the trace concentration of PCE may be absorbed from groundwater contamination. A trace

amount of cis-1,2-DCE (0.64 µg/L) was detected in groundwater collected near the Sports Authority store (5600E-GW-06). The sample location is just west of the Site across 900 East (Figure 3).

6.3 Groundwater Pathway Conclusions

Petroleum contamination in groundwater is likely associated with the leaking underground storage tank contaminant plume previously documented at the 7-Eleven Service Station located at 5585 South 900 East. Chlorinated solvent groundwater contamination detected during both the 2008 SI and the 2011 ESI is limited to a four-acre area from the Jiffy Lube and Red Hanger Cleaners on the south to the Quick Lube and east parking lot of the Sports Authority on the north (Figure 3). The chlorinated solvent groundwater contamination appears to be associated with the historic operation of Red Hanger Cleaners at 5575 South 900 East from 1975 to at least 1985 and the operation of Red Hanger Cleaners at 926 East 5600 South, since 1991.

There are 117 wells within a four-mile radius of the Site that are used for drinking water purposes. The deep aquifer is the source of as much as 80% of the drinking water in Murray City and surrounding areas. The nearest drinking water well, called New Howe well, is owned and operated by the City of Murray. The well is located approximately 150 yards southeast (upgradient) of the Site. Chlorinated solvents have not been detected in the New Howe well to date. There are 6,671 Points of Diversion (PODs) within a four-mile radius of the Site. Of these, 297 were listed as surface PODs and 6,224 as underground (Viehweg, 2008). The uses listed for the 6,224 underground PODs include domestic, municipal, irrigation, power, stock watering, and "other" (Utah Division of Water Rights, 2016). No contact was made with the owners of these underground PODs. Little is known regarding the current activity of these PODs, but it is unlikely that these are used to supply drinking water since potable water is provided to all residences and businesses in the area by the City of Murray.

7.0 SURFACE WATER AND SEDIMENT PATHWAY

7.1 Surface Water and Sediment Sample Locations

No surface water features are located near the groundwater plume. Therefore, no surface water or sediment samples were collected as a part of the ESI.

7.2 Surface Water and Sediment Analytical Results

There are no sample results.

7.3 Surface Water Pathway Conclusions

The three largest surface water bodies closest to the Site are Little Cottonwood Creek (0.5 miles west), Big Cottonwood Creek (1.1 miles north), and the Jordan River (3.1 miles west). In addition, a small annual stream northwest of the Site flows through the length of a nearby golf course called Mick Riley Golf Course. This stream is approximately 0.3 miles from the Site and flows downgradient into Big Cottonwood Creek.

The Jordan River is listed as Class 2B for secondary contact recreation such as boating, wading, or similar uses; Class 3B for warm water species of game fish and other warm water aquatic life, including the necessary aquatic organisms in their food chain; and Class 4 for agricultural uses including irrigation and stock watering (Salt Lake County). There are no surface drinking water sources within the 15-mile downstream influence (Utah Division of Water Rights, 2016).

8.0 SOIL PATHWAY

8.1 Soil Sample Locations

Soil samples were collected from continuous soil columns obtained using a direct push sampling device. Soil samples were collected using plastic sleeves inserted into a hollow stem rod on the direct-push unit. Samples were collected from a depth of 5 to 11.5 feet bgs from the same borings used to collect groundwater samples. Soil

samples were collected first. The boring was then deepened until groundwater was encountered, and a groundwater sample was collected. Sample locations are illustrated in Figures 3 and 4.

8.2 Soil Sample Analytical Results

A summary of soil sample analytical results for VOCs is provided as Table 4. Sample 5600E-SO-03, collected just west of the entrance to Chase Bank, was the only sample in which multiple VOCs were found in the soil above background levels. However, no VOCs were found at levels exceeding SCDM benchmark values. A trace of PCE (0.27 µg/kg) was detected in the soil sample collected from the Quick Lube Parking Lot (5600E-SO-04).

8.3 Attribution and Soil pathway Targets

Petroleum-related VOCs detected in soil near Chase Bank appear to be related to the leaking underground storage tanks previously used at the 7-Eleven store at 5585 South 900 East. Chlorinated soil contamination already detected in soil samples collected from the Chase Bank parking lot during the 2008 SI does not appear to extend beyond the immediate vicinity of the historic location of the Red Hanger Cleaners at 5575 South 900 East.

The population within a four-mile radius of the Site is 217,631 (U.S. Census Bureau, 2010). Determining the number of people who enter the area on a daily basis for business, shopping or employment is difficult to assess. However, because much of the Site is covered with asphalt, the threat of exposure via the soil exposure pathway is relatively low for this site.

9.0 DATA QUALITY

A water trip blank was prepared using deionized water at DEQ headquarters prior to groundwater sampling on September 26, 2011, and again on September 28, 2011. Sample 5600E-GW-02 was submitted as a laboratory duplicate. Sample 5600E-GW-08 and 5600E-GW-11 were collected as field duplicates and are in good agreement. Data quality concerns, adjustments, and qualifications are summarized in Table 4. All samples were placed into appropriate containers, labeled and sealed under chain-of-custody protocols, stored on ice in coolers, and submitted to the CLP laboratory for analyses. All holding times were met. All water samples were not preserved by hydrochloric acid but were analyzed for VOCs within seven days of collection.

Documentation procedures included the completion of all CLP forms and sample seals as required for routine analytical services (RAS) using Scribe, an EPA-developed software package. Samples were retained under chain of custody until they were shipped to the laboratory for analysis. Chain-of-custody forms accompanied shipments to the laboratory. Copies of these forms and sample shipping information are included as Appendix D. The Data Validation Reports and Laboratory Analytical Results are included in Appendix E. The Data Quality Objectives defined by the Work Plan and listed in Table 5 were successfully accomplished.

10.0 SUMMARY AND CONCLUSIONS

Chlorinated solvent contamination was detected near the corner of 5600 South 900 East in Murray, Utah following the removal of leaking underground storage tanks from a 7-Eleven store located at 5585 South 900 East. A 2008 Site Investigation identified significant soil and groundwater chlorinated solvent contamination in a Chase Bank parking lot located north and adjacent to the historic location of a Red Hanger Cleaners at 5575 South 900 East and chlorinated solvent groundwater contamination from 5600 South 900 East on the south to 5560 South 900 East on the north.

The purpose of this ESI was to determine if the groundwater plume extended farther northwest from the Site, in the direction of groundwater flow. Ten groundwater samples and nine soil samples were collected from nine borings located from Vine Street (approximately 5900 South) and 900 East to 5400 South 900 East. No soil or groundwater sample yielded chlorinated solvent contamination above SCDM levels. Sample results indicate that chlorinated solvent groundwater contamination is limited to a four-acre area from the Jiffy Lube and Red Hanger Cleaners on the south to the Quick Lube and east parking lot of the Sports Authority on the north. The chlorinated solvent groundwater contamination appears to be associated with the historical operation of Red

Hanger Cleaners at 5575 South 900 East from 1975 until at least 1985, and the current operational location of Red Hanger Cleaners at 926 East 5600 South, since 1991.

No daycares or schools are located within 200 feet of the Site. Air sampling results from sampling conducted in 2008 inside the Chase Bank indicate that the bank employees are not exposed to Site contaminants at this time at a level that would be considered a public health risk. Chlorinated solvents have not been detected in the nearest public drinking water well to date. Much of the Site is covered with asphalt and the threat of exposure via the soil exposure pathway is relatively low.

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TABLES

Table 1

Sample Collection Summary
5600 South 900 East Plume

Field Sample No.	Matrix	Container[1]	Location	Rationale	VOCs	QA/QC
5600E-GW-01	Water	40 mL Vials	Cooler	Detect Introduced Contamination	X	Trip Blank
5600E-GW-02, 5600E-SO-02	Water/Soil	40 mL Vials, Glass Jars	Parking Lot Pizza Hut	Test for VOCs	X	Lab Duplicate[2]
5600E-GW-03, 5600E-SO-03	Water/Soil	40 mL Vials, Glass Jars	Parking Lot Chase Bank	Test for VOCs	X	
5600E-GW-04, 5600E-SO-04	Water/Soil	40 mL Vials, Glass Jars	Parking Lot Quick Lube	Test for VOCs	X	
5600E-GW-05, 5600E-SO-05	Water/Soil	40 mL Vials, Glass Jars	Parking Lot Sports Mall Athletic Club	Test for VOCs	X	
5600E-GW-06, 5600E-SO-06	Water/Soil	40 mL Vials, Glass Jars	Parking Lot Sports Authority	Test for VOCs	X	
5600E-GW-07, 5600E-SO-07	Water/Soil	40 mL Vials, Glass Jars	Parking Lot Rite-Aid	Test for VOCs	X	
5600E-GW-08, 5600E-SO-08	Water/Soil	40 mL Vials, Glass Jars	Parking Lot Oakwood Village Shopping Center	Test for VOCs	X	
5600E-GW-09, 5600E-SO-09	Water/Soil	40 mL Vials, Glass Jars	Parking Lot Copenhagen West	Test for VOCs	X	
5600E-GW-10 5600E-SO-10	Water/Soil	40 mL Vials, Glass Jars	Parking Lot at 900 East & Vine	Test for VOCs	X	Background
5600E-GW-11	Water/Soil	40 mL Vials	Oakwood Village Duplicate	Test for VOCs	X	Field Duplicateof GW-08
5600E-GW-12	Water	40 mL Vials	Cooler	Detect Introduced Contamination	X	Trip Blank

[1] Soil samples required one 4-oz glass jar for each analysis.
[1] Water samples required three 40 mL glass vials preserved with HCL for VOC analysis.
[2] Laboratory duplicate for water and soil was labeled on the Chain of Custody as 5600E-GW-02 and 5600E-SO-02
[2] Laboratory duplicate required triple volume for VOCs in water sample.

5600 South 900 East Plume UTN000802714
Expanded Site Investigation
Sampled September 26-28, 2011

Table 2: Ground Water - Summary of Volatile Organic Compound Concentrations

				Sample Number >>>	5600E-GW-10		5600E-GW-01		5600E-GW-12		5600E-GW-02		5600E-GW-03		5600E-GW-04		5600E-GW-05		5600E-GW-06		5600E-GW-07		5600E-GW-08		5600E-GW-11		5600E-GW-09	
				Traffic Number >>>	H3B32		H3B35		H3B44		H3B46		H3B43		H3B48		H3B51		H3B50		H3B40		H3B36		H3B37		H3B34	
	Sample Location >>>	SCDM* Benchmark Value			900 East & Vine		Trip Blank		Trip Blank 2		Pizza Hut		Chase Bank		Quick Lube		Sports Mall		Sports Authority		Rite-Aid		Oakwood Village		Oakwood Village Duplicate		Copenhagen West	
				Depth (ft)	6-7		NA		NA		9		9		7.25		7.5		7.5		6.5		5.5		5.5		6	
		MCL	Ref Dose	CRSC	Background		filtered water		filtered water		groundwater		groundwater		groundwater		groundwater		groundwater		groundwater		groundwater		groundwater		groundwater	
CAS No.	Analyte	µg/L	µg/L	µg/L	µg/L	Q	µg/L	Q	µg/L	Q	µg/L	Q	µg/L	Q	µg/L	Q	µg/L	Q	µg/L	Q	µg/L	Q	µg/L	Q	µg/L	Q	µg/L	Q
71-55-6	1,1,1-Trichloroethane	200	3,000	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	--	300	0.3	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
79-00-5	1,1,2-Trichloroethane	5	60	1.1	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
75-34-3	1,1-Dichloroethane	--	3000	11	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
75-35-4	1,1-Dichloroethene	7	700	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
87-61-6	1,2,3-Trichlorobenzene	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
120-82-1	1,2,4-Trichlorobenzene	70	100	2.3	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	0.2	3	0.02	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
106-93-4	1,2-Dibromoethane	--	100	0.03	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
95-50-1	1,2-Dichlorobenzene	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
107-06-2	1,2-Dichloroethane	5	90	0.73	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
78-87-5	1,2-Dichloropropane	5	1000	1.8	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
541-73-1	1,3-Dichlorobenzene	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
106-46-7	1,4-Dichlorobenzene	75	1000	12	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
78-93-3	2-Butanone (MEK)	--	9,000	--	10	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	5.0	U
591-78-6	2-Hexanone	--	--	--	10	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	5.0	U
108-10-1	4-Methyl-2-Pentanone	--	1,000	10,000	10	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	5.0	U
67-64-1	Acetone	--	10,000	--	10	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
71-43-2	Benzene	5	60	1.2	5	U	5.0	U	5.0	U	5.0	U	**14.0**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U
74-97-5	Bromochloromethane	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U
75-27-4	Bromodichloromethane	--	300	1	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U
75-25-2	Bromoform	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
74-83-9	Bromomethane	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
75-15-0	Carbon Disulfide	--	1,000	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
56-23-5	Carbon Tetrachloride	5	60	0.9	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
108-90-7	Chlorobenzene	100	300	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
75-00-3	Chloroethane	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
67-66-3	Chloroform	--	100	2.1	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
74-87-3	Chloromethane	--	--	--	5.9		5.7		7.0		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
156-59-2	cis-1,2-Dichloroethene	70	30	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.64	J	5.0	U	5.0	U	5.0	U	5.0	U
10061-01-5	cis-1,3-Dichloropropene	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
110-82-7	Cyclohexane	--	--	--	5	U	5.0	U	5.0	U	5.0	U	2.9	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	
124-48-1	Dibromochloromethane	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
75-71-8	Dichlorofluoromethane	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
100-41-4	Ethylbenzene	700	1,000	6.1	5	U	5.0	U	5.0	U	5.0	U	**9.2**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
98-82-8	Isopropylbenzene (Cumene)	--	1,000	--	5	U	5.0	U	5.0	U	5.0	U	5.2		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
179601-23-	m,p-Xylene	--	3000	--	5	U	5.0	U	5.0	U	5.0	U	1.7	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
79-20-9	Methyl Acetate	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1634-04-4	Methyl tert-Butyl Ether	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
108-87-2	Methylcyclohexane	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.8		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
75-09-2	Methylene Chloride	5	90	10	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
95-47-6	o-Xylene	10,000	3,000	--	5	U	5.0	U	5.0	U	5.0	U	0.3	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
100-42-5	Styrene	100	3,000	--	5	U	0.4	J	0.4	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
127-18-4	Tetrachloroethene (PCE)	5	90	32	5	U	5.0	U	5.0	U	5.0	U	5.0	U	1.0	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
108-88-3	Toluene	1,000	1,000	--	5	U	0.7	J	0.7	J	5.0	U	0.5	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
156-60-5	trans-1,2-Dichloroethene	100	300	--	5	U	5.0	U	5.0	U	5.0	U	1.9	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
10061-02-6	trans-1,3-Dichloropropene	--	--	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
79-01-6	Trichloroethene (TCE)	5	7	1	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
75-69-4	Trichlorofluoromethane	--	4,000	--	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
75-01-4	Vinyl Chloride	2	40	0.017	5	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

*SCDM - Superfund Chemical Data Matrix, 06/2014
MCL = Drinking water Maximum Contaminant Level
Ref Dose = Reference Dose Screening Concentration
CRSC = Cancer Risk Screening Concentration
Q - Data qualifier code
U - Undetected. The sample quantitation limit is provided.

J - The analyte was positively identified; the associated numberical value is the approximate concentration of the analyte in the sample.
UJ - The reported quantitation limit is estimated because quality control criteria were not met. Element or compound may or may not be present in the sample.
A shaded value represents a concentration at least three times background or greater or when the background measurement is undetected (U) and the sample equals or exceeds the sample quantitation limit. These concentrations qualify as "Observed Releases".
A **bold** value indicates the concentration is equal to or greater than the threshold value listed in the SCDM Benchmark Value columns .

5600 South 900 East Plume UTN000802714
Expanded Site Investigation
Sampled September 26-28, 2011

Table 3: Soil - Summary of Volatile Organic Compound Concentrations

			Sample Number >>>	5600E-SO-10		5600E-SO-02		5600E-SO-03		5600E-SO-04		5600E-SO-05		5600E-SO-06		5600E-SO-07		5600E-SO-08		5600E-SO-09	
			Traffic Number >>>	H3B31		H3B45		H3B42		H3B47		H3B52		H3B49		H3B39		H3B38		H3B33	
	Sample Location >>>	SCDM* Benchmark Values		900 East & Vine Parking Lot		Pizza Hut		Chase Bank Parking Lot		Quick Lube Parking Lot		Sports Mall Athletic Club Parking Lot		Sports Authority Parking Lot		Rite Aid Parking Lot		Oakwood Village Shopping		Copenhagen West Parking Lot	
			Depth (ft)	5		9		6		7		8		8		6		5		11.5	
	Sample Type	Ref Dose	CRSC	soil		soil		soil		soil		soil		soil		soil		soil		soil	
CAS No.	Analyte	ug/kg	ug/kg	ug/kg	Q	ug/kg	Q	ug/kg	Q	ug/kg	Q	ug/kg	Q	ug/kg	Q	ug/kg	Q	ug/kg	Q	ug/kg	Q
71-55-6	1,1,1-Trichloroethane	1.0E+08	--	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	--	3.0E+03	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
79-00-5	1,1,2-Trichloroethane	3.1E+05	1.1E+04	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-34-3	1,1-Dichloroethane	1.0E+07	1.1E+05	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-35-4	1,1-Dichloroethene	3.0E+06	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
87-61-6	1,2,3-Trichlorobenzene	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
120-82-1	1,2,4-Trichlorobenzene	7.0E+05	2.2E+04	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
106-93-4	1,2-Dibromoethane	--	--	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
95-50-1	1,2-Dichlorobenzene	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
107-06-2	1,2-Dichloroethane	4.0E+05	7.0E+03	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
78-87-5	1,2-Dichloropropane	7.0E+06	1.7E+04	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
541-73-1	1,3-Dichlorobenzene	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
106-46-7	1,4-Dichlorobenzene	5.0E+06	1.1E+05	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
78-93-3	2-Butanone (MEK)	4.0E+07	--	24		10	U	19		11	U	11	U	40		15		17		13	U
591-78-6	2-Hexanone	--	--	12	U	10	U	13	U	11	U	11	U	12	U	13	U	12	U	13	U
108-10-1	4-Methyl-2-Pentanone	6.3E+06	--	12	U	10	U	13	U	11	U	11	U	12	U	13	U	12	U	13	U
67-64-1	Acetone	7.0E+07	--	50		10	U	48		11	U	11	U	93		27		38		16	
71-43-2	Benzene	3.1E+05	1.1E+04	6.2	U	5	UJ	2.1	J	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
74-97-5	Bromochloromethane	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-27-4	Bromodichloromethane	1.0E+06	1.0E+04	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-25-2	Bromoform	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
74-83-9	Bromomethane	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-15-0	Carbon Disulfide	7.0E+06	--	6.2	U	5	U	4	J	5.6	U	5.3	U	4.1	J	1.1	J	1.2	J	6.6	U
56-23-5	Carbon Tetrachloride	3.0E+05	9.0E+03	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
108-90-7	Chlorobenzene	1.0E+06	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-00-3	Chloroethane	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
67-66-3	Chloroform	7.0E+05	2.0E+03	6.2	U	5	U	6.6	U	5.6	U	0.62	J	5.8	U	0.64	J	6.1	U	6.6	U
74-87-3	Chloromethane	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
156-59-2	cis-1,2-Dichloroethene	1.0E+05	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
10061-01-5	cis-1,3-Dichloropropene	2.3E+03	6.4E+00	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
110-82-7	Cyclohexane	--	--	6.2	U	5	U	30		5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
124-48-1	Dibromochloromethane	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-71-8	Dichlorodifluoromethane	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
100-41-4	Ethylbenzene	7.0E+06	5.8E+04	0.21	J	5	UJ	11		5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	0.24	J
98-82-8	Isopropylbenzene (Cumene)	7.8E+03	--	6.2	U	5	UJ	1.5	J	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
179601-23-1	m,p-Xylene	1.6E+04	--	6.2	U	5	UJ	28		5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
79-20-9	Methyl Acetate	--	--	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
1634-04-4	Methyl tert-Butyl Ether	--	--	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
108-87-2	Methylcyclohexane	--	--	6.2	U	5	U	13		5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-09-2	Methylene Chloride	4.0E+05	7.0E+04	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
95-47-6	o-Xylene	--	--	6.2	U	5	UJ	6.7		5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
100-42-5	Styrene	1.0E+07	--	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
127-18-4	Tetrachloroethene	4.0E+05	3.0E+05	6.2	U	5	UJ	6.6	U	0.27	J	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
108-88-3	Toluene	6.0E+05	--	0.35	J	5	UJ	1.1	J	5.6	U	5.3	U	0.22	J	0.27	J	0.26	J	0.35	J
156-60-5	trans-1,2-Dichloroethene	1.0E+06	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
10061-02-6	trans-1,3-Dichloropropene	--	--	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
79-01-6	Trichloroethene (TCE)	3.0E+04	8.0E+03	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-69-4	Trichlorofluoromethane	2.0E+05	--	6.2	U	5	UJ	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U
75-01-4	Vinyl Chloride	2.0E+05	9.3E+01	6.2	U	5	U	6.6	U	5.6	U	5.3	U	5.8	U	6.5	U	6.1	U	6.6	U

*SCDM - Superfund Chemical Data Matrix, 6/2014
Ref Dose = Reference Dose Screening Concentration
CRSC = Cancer Risk Screening Concentration
Q - Data qualifier code
U - Undetected. The sample quantitation limit is provided.

J - The analyte was positively identified; the associated numberical value is the approximate concentration of the analyte in the sample.
Element or compound may or may not be present in the sample.
UJ - The reported quantitation limit is estimated because quality control criteria were not met.
A shaded value represents a concentration at least three times background or greater or when the background measurement is undetected (U) and the sample equals or exceeds the sample quantitation limit. These concentrations qualify as "Observed Releases".

Table 4
Data Quality Concerns, Adjustments and Qualifications

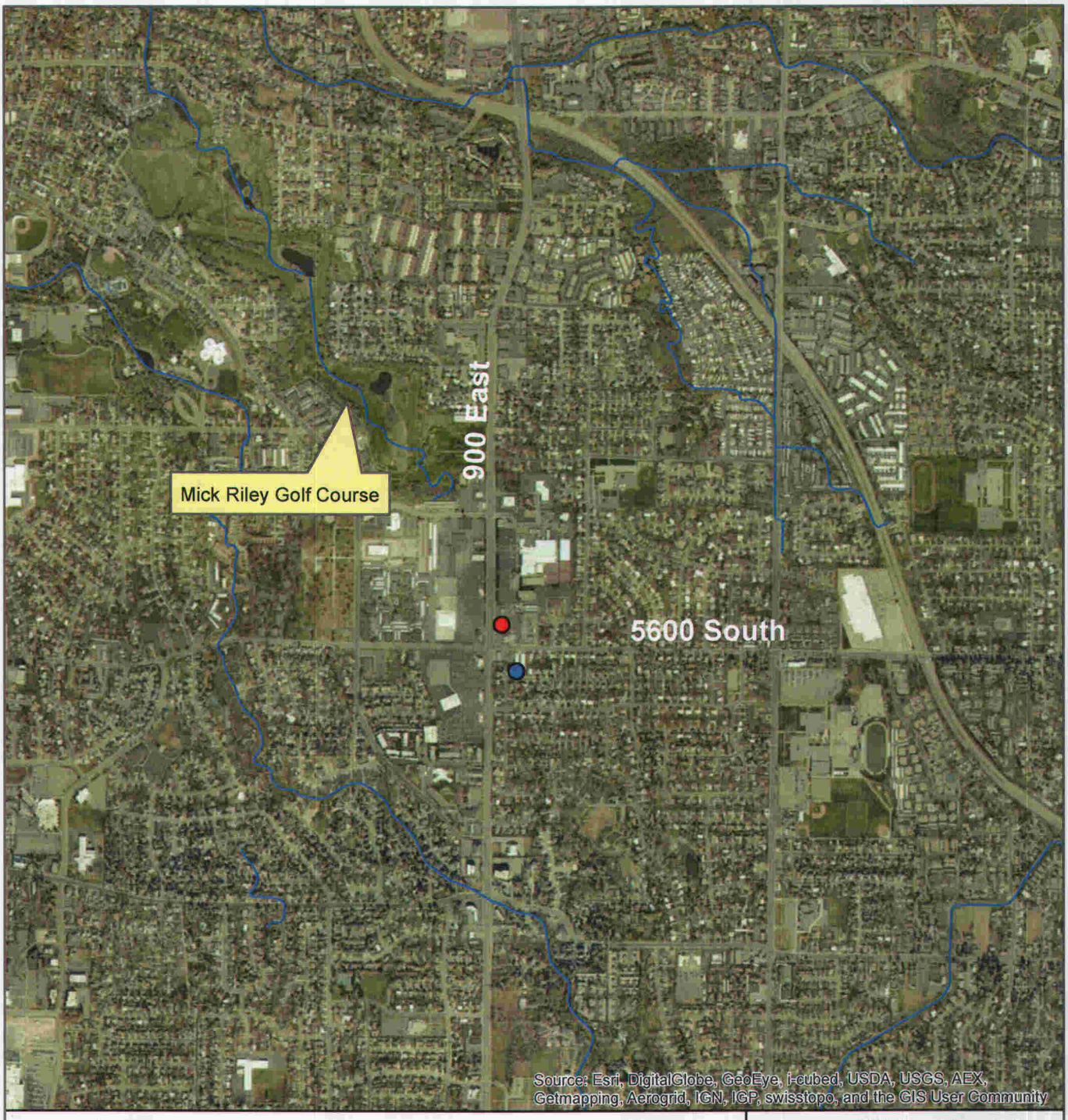
Sample Type	Data Concern	Analytes	Data Adjustment/Qualifier
All samples	The %RDS and the RRfs did not meet standards during insturment calibration for 1, 4-dioxane	1, 4-dioxane	Data rejected
All samples	The %RDS and the RRfs did not meet standards during insturment calibration for 1, 4-dioxane	1, 4-dioxane	Data rejected
All samples	Various compounds were detected in method and storage laboratory blanks	acetone, methylene chloride, xylenes, and trichlorofluoromethane	Field sample detections for these chemicals must be more than ten times the contract required quantitation limit to be considered a detection

5600 South 900 East Plume UTN000802714
Expanded Site Investigation
Sampled September 26-28, 2011

Table 5: Data Quality Objectives

Step 1 Problem Statement	Step 2 Identifying the Decisions	Step 3 Decision Inputs	Step 4 Study Boundaries	Step 5 Decisions/Rules	Step 6 Tolerance Limits on Errors	Step 7 Optimization of Sample Design
A groundwater plume of PCE and its breakdown products was detected in this area from earlier sampling events. A historic dry cleaner in the area is the suspected source.	The primary study questions are: What is the extent of groundwater PCE contamination? Have on-site soils been contaminated with PCE?	Analytical data from groundwater and soil samples downgradient from the probable source. Analytical data for background groundwater and soil samples from a location near the site to serve as a basis for comparison with samples collected downgradient from the site.	Randomly selected sample locations were selected approximately ¼-mile downgradient from the suspected source. The background samples will be collected ½-mile upgradient of the site.	Sample results will be compared to background samples and to SCDM benchmarks as defined in the Hazard Ranking System (HRS).	Soil sampling will be biased toward more obviously contaminated soil, if identified. All analytical data will be reviewed, verified, and validated to ensure the data collected is acceptable.	Sample locations will be selected by the project manager as needed.
Study Objective Results						
Study area soil and groundwater was sampled.	The extent of the contamination was identified. Only soils in a limited area are contaminated.	Samples within the boundary area and comparable upgradient area were collected.	Samples within the boundary area and upgradient background area were collected	Sample results are not above SCDM benchmarks.	Accomplished.	No additional samples were collected beyond those planned.

FIGURES



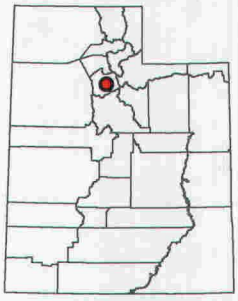
0 0.25 0.5 Miles

Legend

- Site Location
- New Howe Well
- Streams

Base Map: United States Geological Survey topographic map, 1999

N
W E
S



Utah Department of Environmental Quality
Division of Environmental Response and Remediation

Figure 1
Site Location

5600 South 900 East Plume
Salt Lake County, Utah

by: Neil Taylor date: 05/07/2017

0 50 100 200 300 Yards

Utah Department of Environmental Quality
Division of Environmental Response and Remediation

Legend

▲ Site Location

N
W E
S

Figure 2
Site Map

5600 South 900 East Plume
Salt Lake County, Utah

by: Neil Taylor date: 4/04/2015

0 50 100 200 300 Yards

Utah Department of Environmental Quality
Division of Environmental Response and Remediation

Legend

- Boring Locations

N
W E
S

Figure 3
Soil and Groundwater Sample Locations

5600 South 900 East Plume
Salt Lake County, Utah

by: Neil Taylor date: 4/04/2015

0 50 100 200 300 Yards

Utah Department of Environmental Quality
Division of Environmental Response and Remediation

Legend

- Boring Locations

N
W E
S

Figure 3
Soil and Groundwater Sample Locations

5600 South 900 East Plume
Salt Lake County, Utah

by: Neil Taylor date: 4/04/2015

0 0.2 0.4 Miles

Utah Department of Environmental Quality
Division of Environmental Response and Remediation

Legend

- Site Location
- ESI 2011 Background

N
W E
S

Figure 4
Soil and Groundwater Background Boring Location

5600 South 900 East Plume
Salt Lake County, Utah

by: Neil Taylor date: 4/04/2015

APPENDICES

APPENDIX A

CONSENT FOR ACCESS TO PROPERTY FORM

CONSENT FOR ACCESS TO PROPERTY

_____ ("Owner"), is the owner of record of certain real property Parcel Number: _____, Address: _____ ("Property").

The Owner hereby consents to access of the Property by the officers, employees, authorized representatives, and consultants of the Utah Division of Environmental Response and Remediation (the "DERR") solely for the following purposes:

1. The collection of soil and groundwater samples using hydraulic-push technology;
2. The taking of photographs of the sample location; and
3. Any other such actions related to, and necessary in connection with, the taking of the above samples.

The Owner has been informed that these actions by the DERR are being performed under the authorities provided in the Utah Environmental Quality Code of Utah Code Ann. § 19-1-101 et seq. and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C.A. § 9601, et. seq. and that the DERR anticipates accessing the Property for the above purposes between August 2010 and November 2010.

By consenting to access, the Owner makes no admission of liability or responsibility for any contamination or environmental condition which may be found on the Property.

Section 19-6-304 of the Utah Code Ann. provides that, upon request as indicated below, the Owner may have a split sample if possible and may obtain an analysis of the sample available. To these ends, please mark your preference below.:

[ ] I wish to obtain splits of all samples collected on the Property and a receipt describing each sample taken. I understand that I must provide the necessary sample containers to obtain these splits. The responsibility of choosing an analytical laboratory and the cost of analysis of the splits is solely mine.

[ ] When available to DERR, Owner wishes to obtain a copy of the final analytical results report and laboratory data concerning the samples taken from the Property. Indicate address where results should be sent to: _____.

Owner:

_____

By:_____

Print Name:_____

Title: _____ Dated this ____ day of _____, 20__.

Site Name: 5600 South 900 East Plume Project Manager: Kim Viehweg

APPENDIX B

FIELD ACTIVITIES REPORT AND PHOTO LOG

FIELD ACTIVITIES REPORT AND PHOTO LOG
5600 South 900 East Plume
September 26-28, 2011

DATE: 9/26/2011

ON-SITE PERSONNEL: Kim Viehweg – UDEQ/DERR
Henry Schmelzer – URS Operating Services
Maitland "Mait" Walker – URS Operating Services

06:45 5600E-GW-01, DERR office. Collected two deionized water samples with HCl.

08:15 On site at 900 East and Vine Street (6000 South) with Henry Schmelzer and Mait Walker, URS START crew. Reviewed Health & Safety plan and signatures were obtained. Weather is cool (61° F) with a few clouds. No wind.

09:15 5600E-SO-10, 900 East & Vine. One soil sample was collected at 5 feet below ground surface (bgs).

09:45 5600E-GW-10, 900 East & Vine. Two groundwater samples were collected at 6-7 feet bgs. Soil was sandy and gravelly. HCl was used.

11:05 5600E-SO-09, Copenhagen West parking lot. One soil sample was collected at 11.5 feet bgs. Soil was mostly clay.

11:35 5600E-GW-09, Copenhagen West parking lot. Two groundwater samples were collected at 6 feet bgs. HCl was used.

14:00 5600E-GW-08, Oakwood Village Shopping Center parking lot. Two groundwater field samples were collected at 5.5 feet bgs. Two additional groundwater blind field duplicate samples were collected and labeled 5600E-GW-11. No HCl was used due to problems with effervescence.

14:15 5600E-SO-08, Oakwood Village Shopping Center parking lot. One soil sample was collected at 5 feet bgs.

15:15 5600E-SO-07, Rite Aid parking lot. One soil sample was collected at 6 feet bgs.

15:30 5600E-GW-07, Rite Aid parking lot. Two groundwater samples were collected at 6.5 feet bgs. Groundwater contained sediment. No HCl was used.

16:15 Started drilling on 5600E-06 (Sports Authority grassy area) when drill rig broke down. Sampling event will resume after repairs are made.

DATE: 9/28/2011

ON-SITE PERSONNEL: Kim Viehweg – UDEQ/DERR
Henry Schmelzer – URS
Maitland "Mait" Walker - URS

06:50 5600E-GW-12, DERR office. Collected two deionized water samples with HCl.

07:30 Weather is cool (55° F) with no clouds or breeze.

07:45 5600E-SO-03, Chase Bank parking lot. One soil sample was collected at 6 feet bgs. Soil is black.

08:40 5600E-GW-03, Chase Bank parking lot. Two groundwater samples were collected at 9 feet bgs. Groundwater was silty. No HCl was used.

09:20 5600E-SO-02, Pizza Hut parking lot. Two soil samples were collected (one sample is for MS/MSD) at 9 feet bgs. Soil is sandy.

10:30 5600E-GW-02, Pizza Hut parking lot. Six groundwater field samples were collected at 9 feet bgs. Groundwater was sandy and silty. No HCl was used.

12:45 5600E-SO-06, Sports Authority grassy area. One soil sample was collected at 8 feet bgs.

13:05 5600E-GW-06, Sports Authority grassy area. Two groundwater samples were collected at 7.5 feet bgs. No HCl was used.

14:00 5600E-SO-04, Quick Lube parking lot. One soil sample was collected at 7 feet bgs.

14:20 5600E-GW-04, Quick Lube parking lot. Two groundwater samples were collected at 7.25 bgs. Groundwater contains sediment. No HCl was used.

15:00 5600E-SO-05, Sports Mall Athletic Club grassy area. One soil sample was collected at 8 feet bgs.

15:30 5600E-GW-05, Sports Mall Athletic Club grassy aera. Six groundwater samples were collected (samples collected for MS/MSD) at 7.5 feet bgs. No HCl was used.

Photo 1: Background sample at 900 East and Vine (5600E-GW-10, 5600E-SO-10).

Photo 2: Parking lot to the west of Copenhagen West (5600E-GW-09, 5600E-SO-09).

Photo 3: Oakwood Village Shopping Center parking lot (5600E-GW-08, 5600E-SO-08).

Photo 4: Grassy area east of Rite Aid (5600E-GW-07, 5600E-SO-07).

Photo 5: Grassy area east of Sports Authority (5600E-GW-06, 5600E-SO-06).

Photo 6: Chase Bank (5600E-GW-03, 5600E-SO-03).

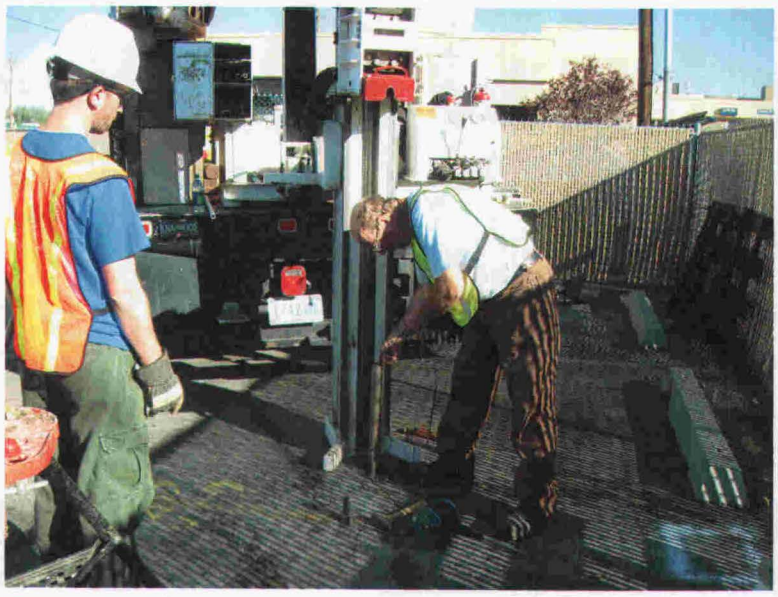


Photo 7: Parking lot to the east of Pizza Hut (5600E-GW-02, 5600E-SO-02).

Photo 8: Grassy area to the west of Sports Mall Athletic Club (5600E-GW-05, 5600E-SO-05).

Photo 9: View of the Pizza Hut looking east.

APPENDIX C

URS OPERATION SERVICES TRIP REPORT

1215556 - R8 SDMS

URS OPERATING SERVICES

1099 18TH STREET
SUITE 710
DENVER, COLORADO 80202-1908
TEL: (303) 291-8200
FAX: (303) 291-8296

October 28, 2011

Margaret Williams
Site Assessment Manager
U.S. Environmental Protection Agency, Region 8
Mail Code: 8EPR-SA
1595 Wynkoop Street
Denver, Colorado 80202-1129

SUBJECT: START 3, EPA Region 8, Contract No. EP-W-05-050, TDD No. 1108-07
Trip Report, 5600 South 900 East Plume, Murray, Salt Lake County, Utah.

Dear Ms.Williams:

Attached is one copy of the draft trip report of the field work conducted at the 5600 South 900 East Plume site in Murray, Utah. Field activities were conducted September 26-28, 2011. This document is submitted for your review and comments.

If you have any questions, please call me at 303-291-8241.

Sincerely,

URS OPERATING SERVICES, INC.

Henry Schmelzer
Project Manager

cc: Charles W. Baker/UOS (w/o attachment)
File/UOS

EPA ACTION BLOCK

- (X) Approved
- ( ) Approved, TDD to follow
- ( ) Approved as corrected
- ( ) Disapproved
- ( ) Review with _____
- ( ) Original to _____
- ( ) Copy to _____
- ( ) Reply envelope enclosed

12/5/11 for Margaret Williams
Date By

TRIP REPORT

5600 S. 900 EAST PLUME
Murray, Salt Lake County, Utah

1.0 INTRODUCTION

URS Operating Services, Inc. (UOS) was tasked by the Environmental Protection Agency (EPA), under Superfund Technical Assessment and Response Team 3 (START) contract # EP-W-05-050, Technical Direction Document (TDD) No. 1108-07, to provide technical support to the Utah Department of Environmental Quality (UDEQ) as part of a site assessment associated with a perchloroethylene (PCE) plume in the groundwater. Specifically, START was tasked to drill nine direct push boreholes that would be utilized by UDEQ to collect subsurface soil samples, and to install temporary groundwater monitoring wells. The sample locations were within a few city blocks of the intersection of 5600 South and 900 East in Murray, Salt Lake County, Utah (Attachment A). Site activities related to this response were conducted September 26-28, 2011. No samples were collected by START for this project. Field activities followed the applicable UOS Technical Standard Operating Procedures (TSOPs) and the generic Quality Assurance Project Plan.

2.0 BACKGROUND

The purpose of this field work was to assist the UDEQ with their site assessment by drilling boreholes using a direct push drill rig so that UDEQ could collect groundwater and soil samples for a subsurface investigation of potential PCE contamination. A previous site assessment in the area in 2008 indicated the presence of PCE in the groundwater possibly associated with a dry cleaning establishment.

3.0 SITE ACTIVITIES

On September 25, 2011 START members Henry Schmelzer and Maitland Walker mobilized EPA's Power Probe direct push rig to Murray, Utah. On September 26, 2011 START met with UDEQ project manager Kim Viehweg at the background sample site number 10 near the stream at 900 East and Vine Street. The subsurface soils from the borehole produced dark brown clay on top of river rock and sand to a depth of 11 feet. A temporary well was installed and UDEQ collected soil and groundwater samples.

The START team moved to sample location 9 in the parking lot behind Copenhagen West. The borehole produced dark brown plastic clay yielding to light grey sand to a depth of 16 feet. A temporary well was installed and UDEQ collected soil and groundwater samples.

The next sample location was number 8 near the National Guard office within the Oakwood Village Shopping Center. The borehole yielded very low soil recovery due to large stones and gravel plugging the coring tip. The borehole produced water and coarse sand at 10 feet. A temporary well was installed and UDEQ collected soil and groundwater samples.

Sample location number 7 near Harris Hearing Aids was the next borehole location. The borehole produced dark gray sandy clay and lighter grey clayey sand to a depth of 8 feet. A temporary well was installed and UDEQ collected soil and groundwater samples.

While setting up at sample location 6, START experienced problems with the Power Probe and was unable to repair it onsite. It was decided to take the Power Probe to the manufacturer's facility located approximately 3 hours away in American Falls, Idaho for diagnostics and repair.

On September 27, 2011 START drove the Power Probe to the manufacturing and repair facility. The equipment was repaired in approximately 2 hours. START returned to Murray, Utah that afternoon ready to continue sampling. Kim Viehweg indicated sampling would continue on the following day.

On September 28, 2011 START resumed work at sample location 3 in front of Chase Bank. The borehole produced dark grey clay and sand to a depth of 12 feet. A temporary well was installed and UDEQ collected soil and groundwater samples. A slight petroleum-like odor was noted emanating from the groundwater collecting in the purge bucket, but no sheen was noted.

The next sample location was number 2 in the parking lot behind Pizza Hut. The borehole produced sand that trended to moist grey sand to a depth of 12 feet. A temporary well was installed and UDEQ collected soil and groundwater samples.

START returned to sample location 6 in the parking lot of Sports Authority. The borehole produced moist plastic sandy clay and a dark grey mix of sand and river pebbles to a depth of 12 feet. A temporary well was installed and UDEQ collected soil and groundwater samples.

The next sample location was number 4 in the parking area of Quick Lube. To reduce damage to pavement, an existing hole in the asphalt was selected and yielded medium brown sand and wet grey sand to a depth of 12 feet. A temporary well was installed and UDEQ collected soil and groundwater samples.

The final sample location was number 5 in the parking lot of the Sports Mall Athletic Club. The borehole produced grey sand and saturated tan sand to a depth of 12 feet. A temporary well was installed and UDEQ collected soil and groundwater samples.

At each location a peristaltic pump was set up to allow UDEQ to collect groundwater samples from each well. After samples were collected, the PVC well construction materials were removed and the boreholes were backfilled with native soils and bentonite. All locations where asphalt was penetrated as part of the borehole were patched using at least 4 inches of cold asphalt patch that was compressed using a 2-pound sledge hammer.

Upon completion of this project START mobilized to another project location in Taylorsville, Utah.

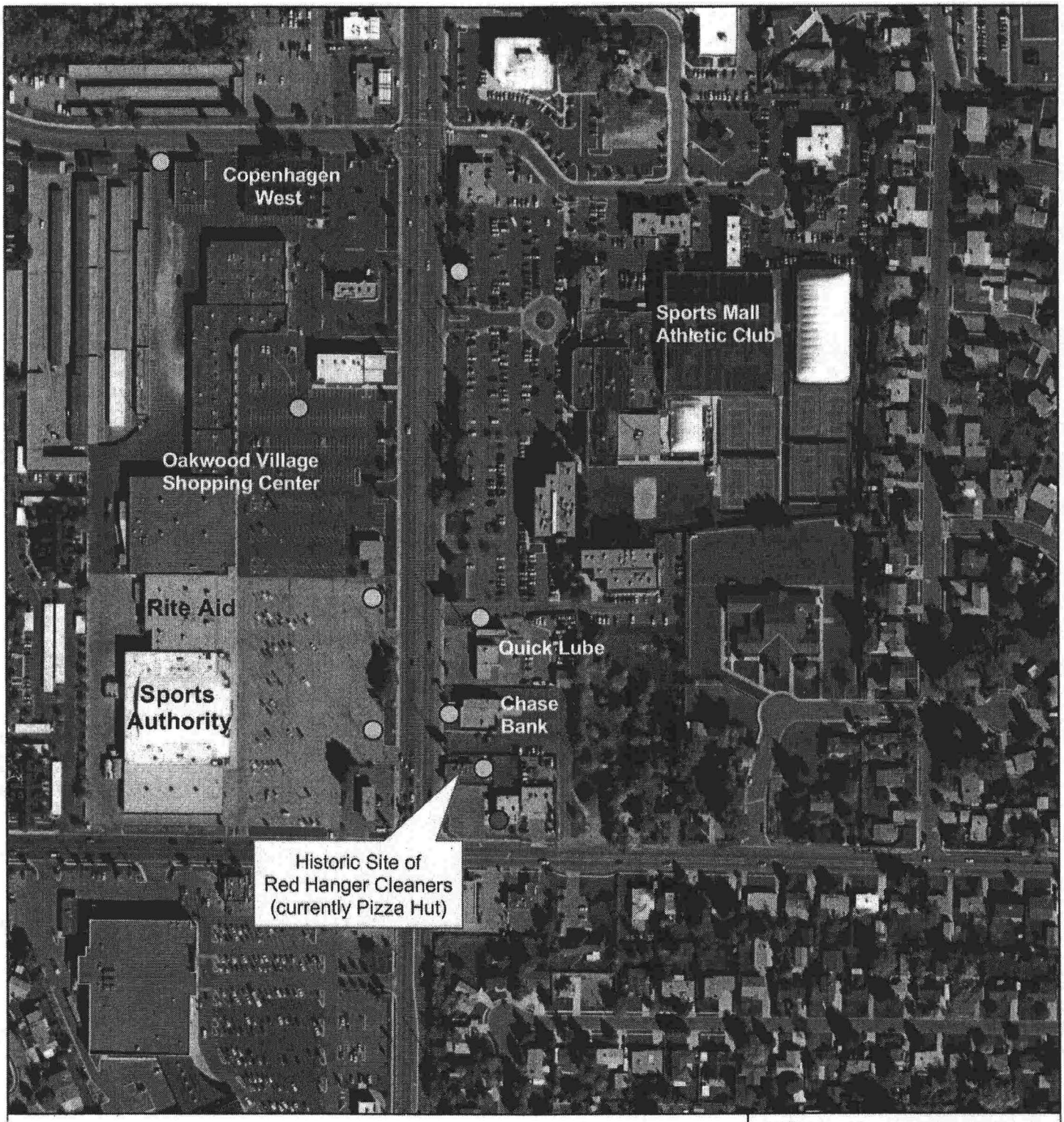
Site photos are provided in Attachment B.

4.0 SAMPLING AND ANALYSIS

No samples were collected for this project by START. A peristaltic pump was set up for UDEQ and their personnel collected the samples.

ATTACHMENT A

UDEQ Proposed Site Location Map

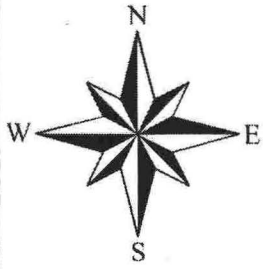


0 0.04 0.08 0.16 0.24 Miles

Utah Department of Environmental Quality
Division of Environmental Response and Remediation

Legend

- 5600 South 900 East Plume site
- Proposed borehole sites



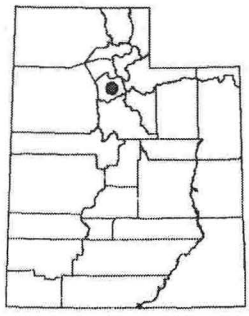


Figure 4
Site Map

5600 South 900 East Plume
Salt Lake County, Utah

Aerial photograph obtained from the State of Utah GIS database, 2006

by: Kim Viehweg date: 3/03/09

ATTACHMENT B

Photolog

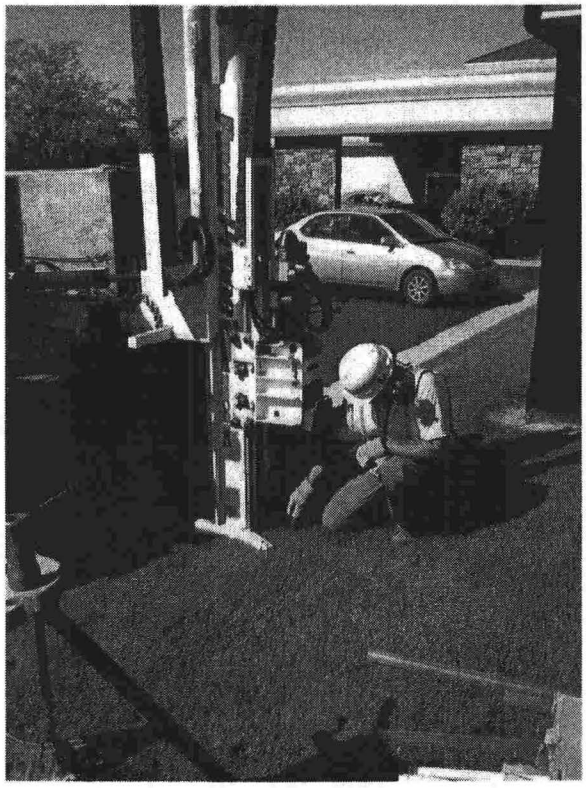


Photo 1
START member Henry Schmelzer prepares to add another length of rod to the borehole drilling at sample site number 7 (0926111451.jpg: 09/26/11).

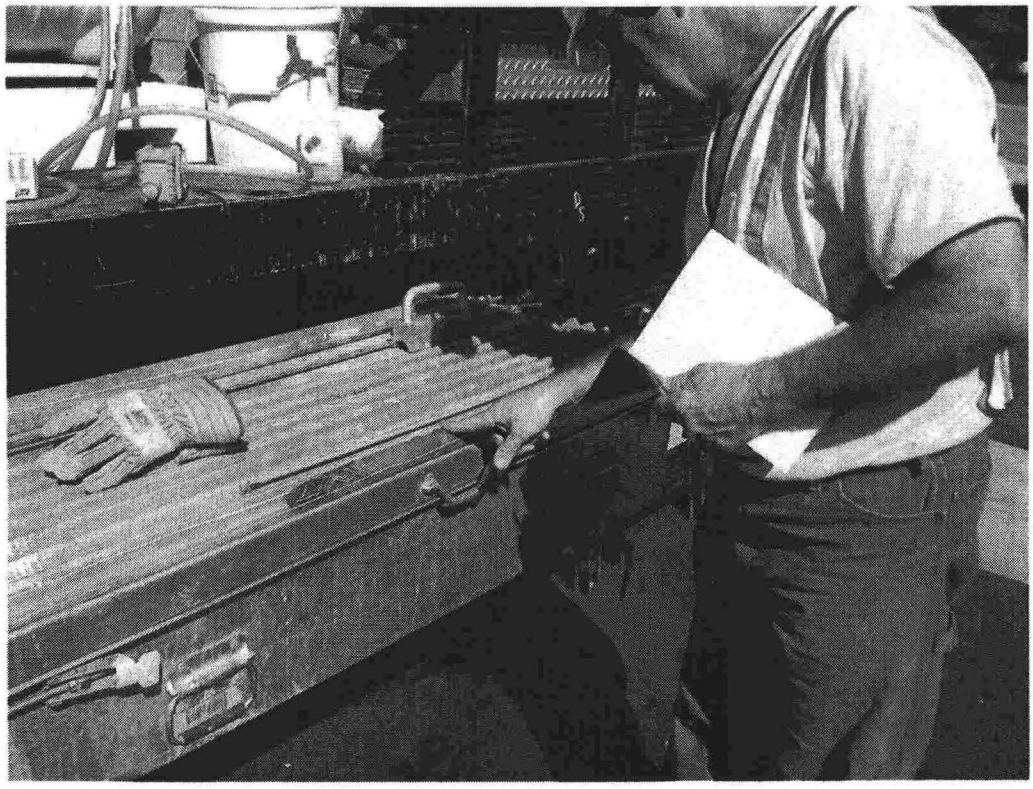


Photo 2
START member Schmelzer tests the soil core for moisture content at sample site number 7 (0926111454.jpg: 09/26/11).

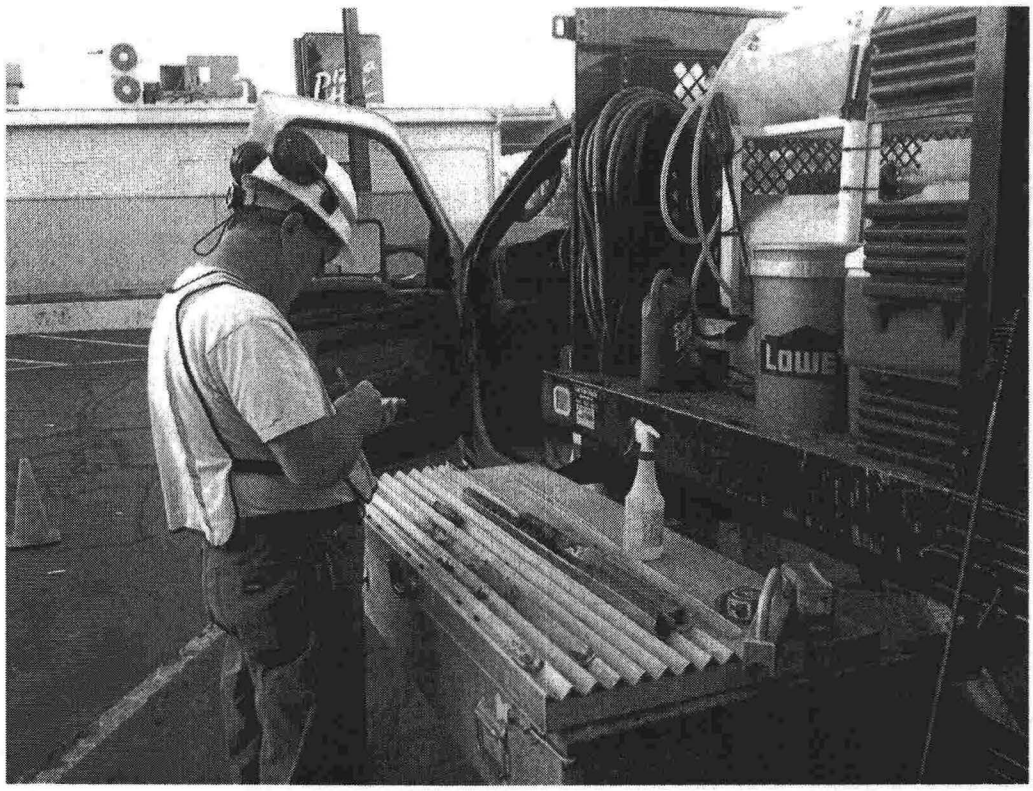


Photo 3
START member Schmelzer taking notation of the sample core lithology at sample site number 2 (0928110747.jpg: 09/28/11).

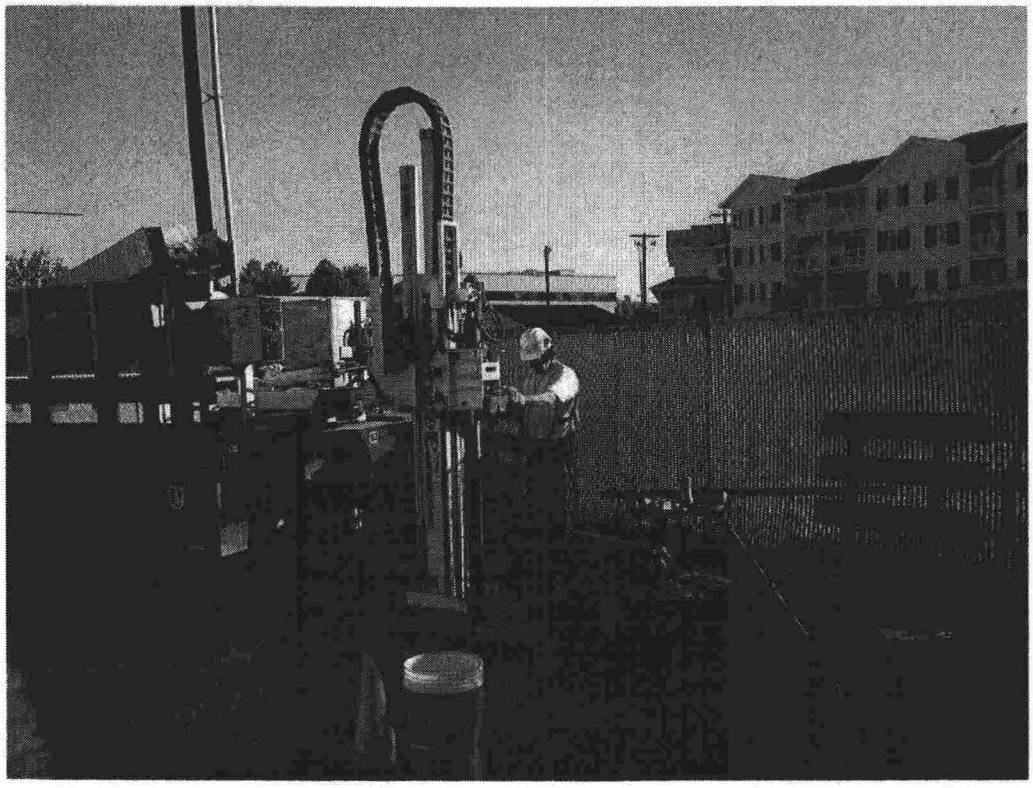


Photo 4
START member Schmelzer operating the Power Probe at sample site number 2 (0928110914.jpg: 09/28/11).

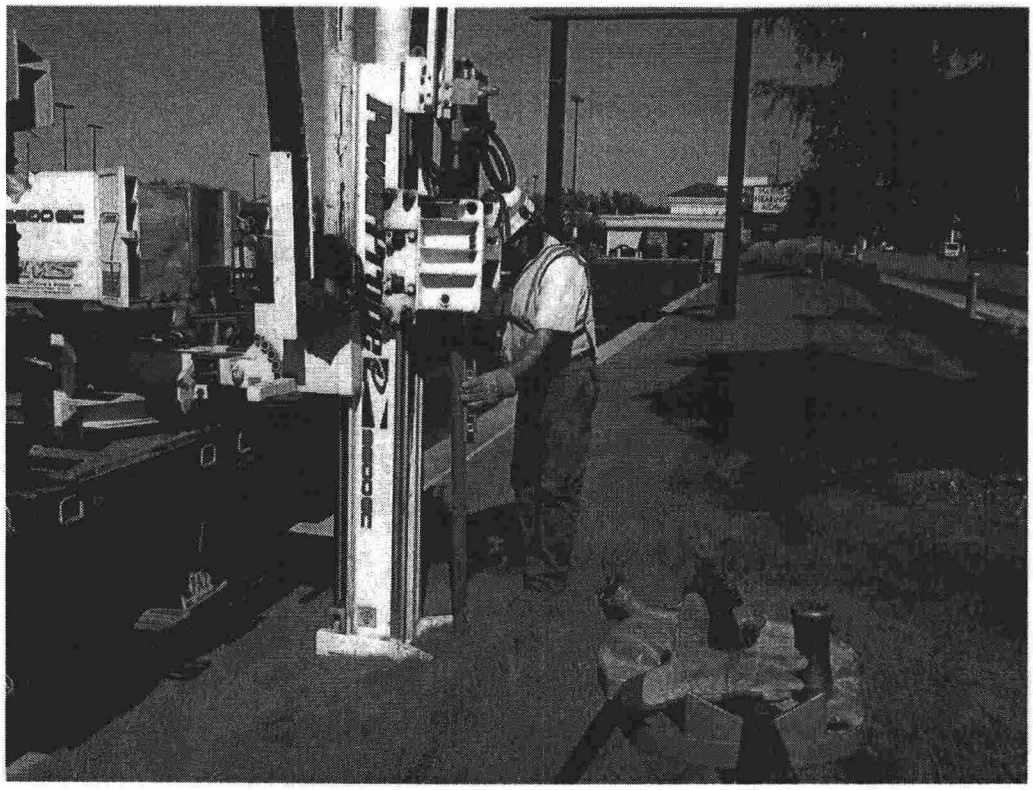


Photo 5
START member Schmelzer checks the deflection of the drill casing during the operation of the PowerProbe at sample site number 6 (0928111233b.jpg: 09/28/11).

APPENDIX D

CHAIN OF CUSTODY FORMS AND SHIPPING DOCUMENTATION

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case 41738
Client No:
SDG No:

L

Date Shipped:	9/26/2011
Carrier Name:	Hand delivered by DEQ
Airbill:	
Shipped to:	Datachem Laboratories, Inc. 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	Kim Viehweg	9/27/11 11:00	[illegible]	9/27/11 11:00
2	[illegible]	9/27/11 12:07	[illegible]	09/27/11 12:07
3				
4				

Sampler Signature:

For Lab Use Only

Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
900 East & Vine	Subsurface Soil (>12")/ Kim Viehweg	L/G	T_VOAS (21)	224 (Ice Only) (1)	900 East & Vine	S: 9/26/2011	9:15	
900 East & Vine	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	212 (HCL), 213 (HCL) (2)	900 East & Vine	S: 9/26/2011	9:45	
Copenhagen West	Subsurface Soil (>12")/ Kim Viehweg	L/G	T_VOAS (21)	223 (Ice Only) (1)	Copenhagen West	S: 9/26/2011	11:05	
Copenhagen West	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	210 (HCL), 211 (HCL) (2)	Copenhagen West	S: 9/26/2011	11:35	
DERR	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	190 (HCL), 191 (HCL) (2)	DERR	S: 9/26/2011	6:45	
Oakwood Village Shop	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	259 (Ice Only), 260 (Ice Only) (2)	Oakwood Village Shopping Center	S: 9/26/2011	14:00	
Oakwood Village Shop	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	225 (Ice Only), 226 (Ice Only) (2)	Oakwood Village Shopping Center	S: 9/26/2011	14:00	
Oakwood Village Shop	Subsurface Soil (>12")/ Kim Viehweg	L/G	T_VOAS (21)	222 (Ice Only) (1)	Oakwood Village Shopping Center	S: 9/26/2011	14:15	
Rite-Aid	Subsurface Soil (>12")/ Kim Viehweg	L/G	T_VOAS (21)	221 (Ice Only) (1)	Rite-Aid	S: 9/26/2011	15:15	
Rite-Aid	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	206 (Ice Only), 207 (Ice Only) (2)	Rite-Aid	S: 9/26/2011	15:30	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

T_VOAS = TCLP Volatiles

TR Number: 8-043013577-092711-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case 41738
Client No:
SDG No:
L

Date Shipped:	9/29/2011
Carrier Name:	Hand delivered by DEQ
Airbill:	
Shipped to:	Datachem Laboratories, Inc. 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 Kim Viehweg	9/28/11 19:20	[illegible]	9/28/11 19:20
2 [illegible]	9/28/11 1312	[illegible]	09/29/11 1312
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
Chase Bank	Subsurface Soil (>12")/ Kim Viehweg	L/G	T_VOAS (21)	217 (Ice Only) (1)	Chase Bank	S: 9/28/2011	7:45	
Chase Bank	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	198 (Ice Only), 199 (Ice Only) (2)	Chase Bank	S: 9/28/2011	8:40	
DERR	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	261 (HCL), 262 (HCL) (2)	DERR	S: 9/28/2011	6:50	
Pizza Hut	Subsurface Soil (>12")/ Kim Viehweg	L/G	T_VOAS (21)	215 (Ice Only), 216 (Ice Only) (2)	Pizza Hut	S: 9/28/2011	9:20	
Pizza Hut	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	192 (Ice Only), 193 (Ice Only), 194 (Ice Only), 195 (Ice Only), 196 (Ice Only), 197 (Ice Only) (6)	Pizza Hut	S: 9/28/2011	10:30	
Quick Lube	Subsurface Soil (>12")/ Kim Viehweg	L/G	T_VOAS (21)	218 (Ice Only) (1)	Quick Lube	S: 9/28/2011	14:00	
Quick Lube	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	200 (Ice Only), 201 (Ice Only) (2)	Quick Lube	S: 9/28/2011	14:20	
Sports Authority	Subsurface Soil (>12")/ Kim Viehweg	L/G	T_VOAS (21)	220 (Ice Only) (1)	Sports Authority	S: 9/28/2011	12:45	
Sports Authority	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	204 (Ice Only), 205 (Ice Only) (2)	Sports Authority	S: 9/28/2011	13:05	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC: Pizza Hut, Sports Mall Athletic	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

T_VOAS = TCLP Volatiles

TR Number: 8-043013577-092811-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case 41738
Client No:
SDG No:
L

Date Shipped:	9/29/2011
Carrier Name:	Hand delivered by DEQ
Airbill:	
Shipped to:	Datachem Laboratories, Inc. 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 Kim Viehweg	9/28/11 19:00	[illegible]	9/28/11 19:00
2 [illegible]	9/29/11 13:12	[illegible]	09/29/11 1312
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
Sports Mall Athletic	Ground Water/ Kim Viehweg	L/G	T_VOAS (21)	263 (Ice Only), 264 (Ice Only), 265 (Ice Only), 266 (Ice Only), 267 (Ice Only), 268 (Ice Only) (6)	Sports Mall Athletic Club	S: 9/28/2011	15:30	
Sports Mall Athletic	Subsurface Soil (>12")/ Kim Viehweg	L/G	T_VOAS (21)	219 (Ice Only) (1)	Sports Mall Athletic Club	S: 9/28/2011	15:00	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC: Pizza Hut, Sports Mall Athletic	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y
T_VOAS = TCLP Volatiles				

TR Number: 8-043013577-092811-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

Analytical Services Request Regional Notification

EPA Region 8 - Case # 41738

General Information

Sampling Company:	Utah Dept of Environmental Quality (Div Emerg
Sampling Contact Name:	Kim Viehweg
Sampling Contact Email:	kviehweg@utah.gov
Sampling Contact Number:	801-536-4161
Proposed Shipping Start Date:	09/19/2011
Proposed Shipping End Date:	09/19/2011

Project Information

Project Name:	5600 SOUTH 900 EAST PLUME Project
EPA Project Number:	
EPA Account Number:	
Site Spill ID:	TQ
Site Name:	5600 SOUTH 900 EAST PLUME
Site City:	SALT LAKE CITY
Site State:	UT
Cerclis:	UTN000802664
Operable Unit:	00
Purpose:	Site Investigation (Unspecified)
Activity Code:	LA
Special Funding:	N

Additional Information

Preliminary Results Email:

General Comments: Do not return coolers.

Scheduling Information

ALS Laboratory Group - Salt Lake City - DATAC

960 West LeVoy Drive
Salt Lake City, UT 84123

Phone Number: 801-266-7700

Laboratory Contact: Roxy Olson
801-266-7700 (ext 314)
roxanne.olson@alsenviro.com

Sample Custodian: Meredith Edwards
801-266-7700
meredith.edwards@alsenviro.com

Statement(s) of Work: SOM01.2

# of Samples	Matrix	Analysis	Substances	T A T	Sol. #	MA Number	Lab Del.	P R	P D F	Ship Period
9	Soil	Volatiles	Volatile Compounds	21	None	None	3	N	N	09/19/2011 - 09/19/2011
11	Water	Volatiles	Volatile Compounds	21	None	None	3	N	N	09/19/2011 - 09/19/2011

FedEx Express USA Airbill

FedEx Tracking Number 8291 6197 3120

BAC11

0215

Sender's Copy

1 From Please print and press hard.

Date 12/8/08 Sender's FedEx Account Number 1828-8775-7

Sender's Name Kim Viehweg Phone (801) 536-4100

Company DEPT OF ENVIRONMENTAL QUALITY

Address 168 N 1950 W

Dept./Floor/Suite/Room

City SALT LAKE CITY State UT ZIP 84116

2 Your Internal Billing Reference First 24 characters will appear on invoice. 1000,4691,NAC,KAI08,M201PSIM

3 To Recipient's Name Jessica Schulze Phone (281) 292-5277

Company A4 Scientific

Address 1544 Sawdust Rd., Suite 505

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes

Dept./Floor/Suite/Room

City The Woodlands State TX ZIP 77380

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Visit our Web site at fedex.com

or call 1•800•Go•FedEx® (800)463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0183648659

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx Priority Overnight — Next business morning
- [x] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day
- [ ] NEW FedEx Extra Hours — Later drop-off with next business afternoon delivery for select locations

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation:

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** — RESTRICTIONS: Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **SUNDAY Delivery** — RESTRICTIONS: Available only for FedEx Priority Overnight to select ZIP codes
- [ ] **HOLD Weekday** at FedEx Location — RESTRICTIONS: Not available with FedEx First Overnight
- [ ] **HOLD Saturday** at FedEx Location — RESTRICTIONS: Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods (incl. Dry Ice) cannot be shipped in FedEx packaging or with FedEx Extra Hours service.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
1	43	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature Sign to authorize delivery without obtaining signature.

Kim Viehweg

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

406

SRP•Rev. Date 12/00•Part #1559165•©1994-2000 FedEx•PRINTED IN U.S.A.

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE.

FedEx Express *USA Airbill*

FedEx Tracking Number 8291 6197 3110

SAC11

Form ID No. 0215

Sender's Copy

1 From *Please print and press hard.*

Date 12/3/08 Sender's FedEx Account Number 1828-8775-7

Sender's Name Kim Viehweg Phone (801) 536-4100

Company DEPT OF ENVIRONMENTAL QUALITY

Address 168 N 1950 W

Dept./Floor/Suite/Room

City SALT LAKE CITY State UT ZIP 84116

2 Your Internal Billing Reference 1000,4691,NAC,KAI08,M201PSTM

First 24 characters will appear on invoice

3 To

Recipient's Name Jessica Schulze Phone (281) 292-5277

Company A4 Scientific

Address 1544 Sawdust Rd., Suite 505

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City The Woodlands State TX ZIP 77380

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Visit our Web site at fedex.com

or call 1-800-Go-FedEx® (800)463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0183648659

4a Express Package Service — ***Packages up to 150 lbs.*** Delivery commitment may be later in some areas.

- [ ] FedEx Priority Overnight — Next business morning
- [x] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day
- [ ] NEW FedEx Extra Hours — Later drop-off with next business afternoon delivery for select locations

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service — ***Packages over 150 lbs.*** Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation:

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [ ] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** — RESTRICTIONS: Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **SUNDAY Delivery** — RESTRICTIONS: Available only for FedEx Priority Overnight to select ZIP codes
- [ ] **HOLD Weekday** at FedEx Location — RESTRICTIONS: Not available with FedEx First Overnight
- [ ] **HOLD Saturday** at FedEx Location — RESTRICTIONS: Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ..... x ..... kg
- [ ] Cargo Aircraft Only

Dangerous Goods (incl. Dry Ice) cannot be shipped in FedEx packaging or with FedEx Extra Hours service.

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
1		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

Kim Viehweg

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

406

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PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE.

APPENDIX E

CLP LABORATORY DATA AND VALIDATION REPORTS

REGION VIII
DATA VALIDATION REPORT
ORGANICS

Case / TDD No.	Site Name		Operable Unit
41738 / 1204-11	5600 South 900 East Plume		
RPM Name			
Ryan Dunham			
Contractor Laboratory	Contract No.	SDG No.	Laboratory DPO/Region
ALS Laboratory Group	EP-W-11-037	H3B31	

Review Assigned Date: April 27, 2012 Data Validator: Bill Fear
Review Completion Date: May 2, 2012 Report Reviewer: Amy Ballow

Sample ID	Matrix	Analysis
H3B31	Soil	CLP – Volatile Analyses by SOM01.2
H3B33		
H3B38		
H3B39		
H3B42		
H3B45		
H3B47		
H3B49		
H3B52		
H3B32	Water	
H3B34		
H3B35		
H3B36		

Sample ID	Matrix	Analysis
H3B37	Water	CLP – Volatile Analyses by SOM01.2
H3B40		
H3B43		
H3B44		
H3B46		
H3B48		
H3B50		
H3B51		

DATA QUALITY STATEMENT

( ) Data are ACCEPTABLE according to EPA Functional Guidelines with no qualifiers (flags) added by the reviewer.
( ) Data are UNACCEPTABLE according to EPA Functional Guidelines.
(X) Data are acceptable with QUALIFICATIONS noted in review.

PO Attention Required? Yes _____ No ___X___ If yes, list the items that require attention:

ORGANIC DATA VALIDATION REPORT

REVIEW NARRATIVE SUMMARY

This data package was reviewed according to the EPA document "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," June 2008.

Raw data were reviewed for completeness and transcription accuracy onto the summary forms. Approximately 10-20% of the results reported in each of the samples, calibrations, and QC analyses were recalculated and verified. If problems were identified during the recalculation of results, a more thorough calculation check was performed.

The data package, SDG No. H3B31, consisted of nine soil samples and twelve water samples for CLP volatile organic analyses by SOM01.2.

The following tables list data qualifiers added to the data. (Please see Data Qualifier Definitions, attached to the end of this report.)

Sample Number	Volatile Compound	Qualifier	Reason For Qualification	Review Section
All samples	1,4-Dioxane	R	Initial and continuing calibration RRFs less than 0.005	4
	Methylene chloride	U	Method blank contamination	8
H3B32, H3B34, H3B35, H3B36, H3B40, H3B43, H3B44, H3B46, H3B48, H3B50, H3B51	Acetone			
H3B31, H3B33, H3B38, H3B39	m,p-Xylenes		Storage blank contamination	
H3B31	Trichlorofluoromethane			

4. INSTRUMENT CALIBRATIONS: INITIAL AND CONTINUING STANDARDS

Initial instrument calibrations were performed according to method requirements and met the project specified control limits.

VOA: Yes___ No_X_

Comments: Initial calibration standards containing both target compounds and the DMCs were analyzed at the correct frequency. The %RSDs of the RRFs were less than or equal to 50% for 1,4-dioxane, 40% for the poor responders, and less than or equal to 20% for all other analytes. The average RRFs for the compounds identified by the Functional Guidelines as poor responders were greater than or equal to 0.01 (0.005 for 1,4-dioxane), and the RRFs for all other target compounds were greater than or equal to 0.05, with the exceptions noted below. Summary forms and raw data were evaluated.

The following table lists the RRFs that were outside criteria and qualifiers added to the data:

Compound	RRFs	Associated Samples	Qualifiers
1,4-Dioxane	0.0017/ 0.0023	All samples	R

Continuing instrument calibrations were performed according to method requirements and met project specified control limits.

VOA: Yes___ No_X_

Comments: Continuing calibration standards containing both target compounds and the DMCs were analyzed at the beginning and end of each 12-hour analysis period. The RRFs for the compounds identified by the Functional Guidelines as poor responders were greater than or equal to 0.01 (0.005 for 1,4-dioxane), with the exceptions noted below. The RRFs for all other target compounds were greater than or equal to 0.05. The opening standard %Ds of the RRFs were less than or equal to 50% for 1,4-dioxane, 40% for the poor responders, and less than or equal to 25% for all other analytes. All %Ds for the closing standards were less than 50% and all RRFs were within criteria except for 1,4-dioxane. Summary forms and raw data were evaluated.

The following table lists the RRFs that were less than 0.005 for 1,4-dioxane and qualifiers added to the data:

Compound	RRFs	Associated Samples	Qualifiers
1,4-Dioxane	0.0016 / 0.0025 / 0.0014 / 0.0022	All samples	R

1. DELIVERABLES

All deliverables were present as specified in the subcontract.

VOA: Yes_X_ No____

Comments: None.

2. HOLDING TIMES AND PRESERVATION CRITERIA

All holding times and preservation criteria were met.

VOA: Yes_X_ No____

Comments: The soil samples were analyzed within 14 days from sample collection. The laboratory received volatile (VOA) soil samples in unpreserved jars. In accordance with previous direction from Region 8, this issue was noted and the laboratory proceeded with the same procedures as described for field core/storage containers. Therefore, no qualification was taken as the samples were analyzed within 14 days of sample collection.

Several aqueous (water) samples were received unpreserved (HCL) with a pH of 7. However, all water samples both preserved and unpreserved were analyzed within seven days of sample collection and no action is required. The sample coolers was received within the temperature criteria of 4 ± 2 °C. Chain-of-custody (COC), summary forms, and raw data were evaluated.

The laboratory noted that sample tags were not included with these samples.

The samples were received with non-CLP sample IDs on the COC. The samples were assigned new CLP IDs that are reflected in this validation report.

3. BFB PERFORMANCE RESULTS

The bromofluorobenzene (BFB) performance results were within the specified control limits. All appropriate BFB results were included.

VOA: Yes_X_ No____

Comments: BFB instrument performance checks were run at the required frequency. Ion abundance criteria were met and were verified from raw data.

5. DEUTERATED MONITORING COMPOUNDS

Deuterated monitoring compound (DMC) recovery analysis was performed according to method requirements and results met specified control limits.

VOA: Yes___ No_X_

Comments: DMCs were added to all samples and blanks. Summary forms and raw data were evaluated.

The recoveries for the DMC 1,4-dioxane-d8 in samples H3B33 (166%) and H3B42 (213%) exceeded the QC limit of 50-150%. However no action was required for the elevated recoveries as the associated compound 1,4-dioxane was not detected in the effected samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed according to method requirements and results met recommended recovery and precision limits.

VOA: Yes_X_ No___

Comments: Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on the soil sample H3B45 and on the water sample H3B46. The percent recoveries and the relative percent differences (RPDs) were within the QC limits for both analyses. Summary forms and raw data were evaluated.

7. INTERNAL STANDARD AREA

Internal standard area analysis was performed according to method requirements and results met specified control limits.

VOA: Yes_X_ No___

Comments: Internal standard area counts did not vary by more than a factor of two (40% trace) from the associated 12-hour calibration standard. The internal standard retention times did not vary more than ± 30 seconds from the retention time of the associated 12-hour calibration standards. Summary forms and raw data were evaluated.

8. LABORATORY BLANK ANALYSIS RESULTS

The laboratory blank analysis was performed according to method requirements and results met specified limits.

VOA: Yes___ No_X_

Comments: Method blank analyses were performed after the calibration standards and once for every 12-hour time period and for each matrix. Storage blanks were also analyzed. Summary forms and raw data were evaluated.

Contamination was detected in the blanks as summarized in the following table. Quantitation limits in the associated samples were raised in accordance with the rules set forth in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," June 2008.

Blank Target Compounds

Blank ID	Contaminant	Concentration Found in Blank (ug/L)	Associated Samples	Concentration Found in Sample (ug/L-waters; ug/Kg-soils)	Qualifier/ Adjustment
VBLKW1	Acetone	2.0 ug/L	H3B32	< CRQL	10 U
			H3B34	< CRQL	10 U
			H3B35	13	U
			H3B36	< CRQL	10 U
			H3B40	< CRQL	10 U
			H3B43	< CRQL	10 U
			H3B44	< CRQL	10 U
			H3B46	< CRQL	10 U
			H3B48	< CRQL	10 U
			H3B50	< CRQL	10 U
			H3B51	< CRQL	10 U
	Methylene chloride	1.0 ug/L	H3B32	< CRQL	5.0 U
			H3B34	< CRQL	5.0 U
			H3B35	6.7	U
			H3B36	< CRQL	5.0 U
			H3B37	< CRQL	5.0 U
			H3B40	< CRQL	5.0 U
			H3B43	< CRQL	5.0 U
			H3B44	6.2	U
			H3B46	< CRQL	5.0 U
			H3B48	< CRQL	5.0 U
			H3B50	< CRQL	5.0 U
			H3B51	< CRQL	5.0 U
VBLKS2	Methylene chloride	0.58 ug/Kg	H3B31	< CRQL	6.2 U
			H3B33		6.6 U
			H3B38		6.1 U
			H3B39		6.5 U
			H3B42		6.6 U
			H3B45		6.0 U
			H3B47		5.6 U
			H3B49		5.8 U
			H3B52		5.3 U

Blank ID	Contaminant	Concentration Found in Blank (ug/L)	Associated Samples	Concentration Found in Sample (ug/L-waters; ug/Kg-soils)	Qualifier/ Adjustment
VHBLKS1	m,p-xylenes	0.17 ug/Kg	H3B31 H3B33 H3B38 H3B39	< CRQL	6.2 U 6.6 U 6.1 U 6.5 U
	Trichlorofluoromethane	0.74 ug/Kg	H3B31	< CRQL	6.2 U

Additional blank contamination (1,2,4-trichlorobenzene and 1,2,3-trichlorobenzene) in the method blank did not result in sample qualification because these compounds were not detected in the associated samples.

The storage blanks also reported methylene chloride. No additional qualification was necessary because all sample results for this compound were previously qualified due to method blank contamination.

The field blanks are not used for qualification based on the client's request.

9. SAMPLE RESULTS

The sample results were reviewed and all compound identifications were acceptable and met contract requirements.

VOA: Yes_X_ No____

Comments: Sample relative retention times (RRTs) were within ± 0.06 RRT units of the standard RRT. Ions present in the standard mass spectrum at a relative intensity greater than 10% were present in the sample spectrum. Relative intensities of ions agreed within ±20% between standard and sample spectra. All samples results and CRQL were correctly calculated.

Tentatively identified compounds (TICs) were qualitatively assessed by a mass spectral library search. Appropriate laboratory flags (N, B, or J) were added to the TICs. No additional qualification was applied to the TICs.

10. Additional Comments or Problems/Resolutions Not Addressed Above

VOA: Yes____ No_X_

Comments: None.

ORGANIC DATA QUALITY ASSURANCE REVIEW

Region VIII

DATA QUALIFIER DEFINITIONS

For the purpose of Data Validation, the following code letters and associated definitions are provided for use by the data validator to summarize the data quality.

GENERAL QUALIFIERS for use with both INORGANIC and ORGANIC DATA

R - Reported value is "rejected." Resampling or reanalysis may be necessary to verify the presence or absence of the compound.

J - The associated numerical value is an estimated quantity because the Quality Control criteria were not met.

U J - The reported quantitation limit is estimated because Quality Control criteria were not met. Element or compound was not detected.

N J - Estimated value of a tentatively identified compound. (Identified with a CAS number.) ORGANICS analysis only.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041001

Sample wt/vol: 5.05 (g/mL) g Lab File ID: SB03C001

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 21. Date Analyzed: 10/04/2011

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	0.41	J	6.2U
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	50.		
75-15-0	Carbon disulfide	6.2	U	
79-20-9	Methyl acetate	6.2	U	
75-09-2	Methylene chloride	0.89	JB	6.2U
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	24.		
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	R

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

KA
5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041001

Sample wt/vol: 5.05 (g/mL) g Lab File ID: SB03C001

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 21. Date Analyzed: 10/04/2011

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
108-88-3	Toluene	0.35	J
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	0.21	J
95-47-6	o-Xylene	6.2	U
179601-23-1	m,p-Xylene	0.59	J 6.2 U
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	6.2	U
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

KLA
5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041001

Sample wt/vol: 5.05 (g/mL) g Lab File ID: SB03C001

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 21. Date Analyzed: 10/04/2011

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.

KJA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP38HB32

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	5.9		
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	2.7	JB	10U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	0.46	JB	5.0U
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	R

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

KSA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP38HB32

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. Date Analyzed: 10/03/2011

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

KaA
5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP38HB32

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	5973-71-7	Benzaldehyde, 3,4-dimethyl-	16.08	29.	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

KA
5/15/12

SQM01/22 (6/2007)

00047

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041002

Sample wt/vol: 4.64 (g/mL) g Lab File ID: SB04C002

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 19. Date Analyzed: 10/04/2011

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	6.6	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U	
67-64-1	Acetone	16.		
75-15-0	Carbon disulfide	6.6	U	
79-20-9	Methyl acetate	6.6	U	
75-09-2	Methylene chloride	0.93	JB	6.6U
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	6.6	U	
107-06-2	1,2-Dichloroethane	6.6	U	
123-91-1	1,4-Dioxane	130	U	R

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

KsA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041002

Sample wt/vol: 4.64 (g/mL) g Lab File ID: SB04C002

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 19. Date Analyzed: 10/04/2011

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	6.6	U
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	0.35	J
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	6.6	U
100-41-4	Ethylbenzene	0.24	J
95-47-6	o-Xylene	6.6	U
179601-23-1	m,p-Xylene	0.59	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

6.6U

KSA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041002

Sample wt/vol: 4.64 (g/mL) g Lab File ID: SB04C002

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 19. Date Analyzed: 10/04/2011

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.

KGA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP39HB34

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	5.4		
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	1.9	JB	10U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	0.46	JB	5.0U
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	R

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

KJA
5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP39HB34

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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

KeA
5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP39HB34

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	5973-71-7	Benzaldehyde, 3,4-dimethyl-	16.08	25.	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

KaA
5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP36HB35

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	5.7		
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	13.	B	U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	6.7	B	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	R

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

KsA
5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP36HB35

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	0.71	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	0.42	J
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

KA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP36HB35

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	5973-71-7	Benzaldehyde, 3,4-dimethyl-	16.08	26.	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

KA
5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP40HB36

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	1.7	JB	10U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	0.42	JB	5.0U
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	R

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

KoA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP40HB36

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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

KA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B36

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043004

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP40HB36

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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.

KsA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP41HB37

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. Date Analyzed: 10/03/2011

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	0.49	JB	5.00
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	R

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

VBA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP41HB37

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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

KA 5/15/12

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP41HB37

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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.

KsA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041003

Sample wt/vol: 4.67 (g/mL) g Lab File ID: SB05C003

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 12. Date Analyzed: 10/04/2011

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	38.	
75-15-0	Carbon disulfide	1.2	J
79-20-9	Methyl acetate	6.1	U
75-09-2	Methylene chloride	0.72	JB 6.1U
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	17.	
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 R

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

KA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041003

Sample wt/vol: 4.67 (g/mL) g Lab File ID: SB05C003

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 12. Date Analyzed: 10/04/2011

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	0.26	J
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	0.31	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

6.U

KA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041003

Sample wt/vol: 4.67 (g/mL) g Lab File ID: SB05C003

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 12. Date Analyzed: 10/04/2011

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.

KA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041004

Sample wt/vol: 4.46 (g/mL) g Lab File ID: SB06R004

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 14. Date Analyzed: 10/05/2011

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	27.	
75-15-0	Carbon disulfide	1.1	J
79-20-9	Methyl acetate	6.5	U
75-09-2	Methylene chloride	0.97	JB 6.5U
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	15.	
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	0.64	J
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 R

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

KJA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041004

Sample wt/vol: 4.46 (g/mL) g Lab File ID: SB06R004

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 14. Date Analyzed: 10/05/2011

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	0.27	J
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	6.5	U
95-47-6	o-Xylene	6.5	U
179601-23-1	m,p-Xylene	0.38	J 6.5U
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	6.5	U
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

KA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127041004

Sample wt/vol: 4.46 (g/mL) g Lab File ID: SB06R004

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. 14. Date Analyzed: 10/05/2011

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					
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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.

KA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP42HB40

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. Date Analyzed: 10/03/2011

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	1.9	JB	10U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	0.45	JB	5.0U
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	R

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

KA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP42HB40

Level: (TRACE/LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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

KA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127043006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP42HB40

Level: (TRACE or LOW/MED) LOW Date Received: 09/27/2011

% Moisture: not dec. Date Analyzed: 10/03/2011

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.

Kaff 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246001

Sample wt/vol: 4.45 (g/mL) g Lab File ID: SB10C001

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 15. Date Analyzed: 10/04/2011

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	6.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U
67-64-1	Acetone	48.	
75-15-0	Carbon disulfide	4.0	J
79-20-9	Methyl acetate	6.6	U
75-09-2	Methylene chloride	2.8	JB 6.6U
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	19.	
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	30.	
56-23-5	Carbon tetrachloride	6.6	U
71-43-2	Benzene	2.1	J
107-06-2	1,2-Dichloroethane	6.6	U
123-91-1	1,4-Dioxane	130	U R

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

KA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246001

Sample wt/vol: 4.45 (g/mL) g Lab File ID: SB10C001

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 15. Date Analyzed: 10/04/2011

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	6.6	U
108-87-2	Methylcyclohexane	13.	
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	1.1	J
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	6.6	U
100-41-4	Ethylbenzene	11.	
95-47-6	o-Xylene	6.7	
179601-23-1	m,p-Xylene	28.	
100-42-5	Styrene	6.6	U
75-25-2	Bromoform	6.6	U
98-82-8	Isopropylbenzene	1.5	J
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

KA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B42

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246001

Sample wt/vol: 4.45 (g/mL) g Lab File ID: SB10C001

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 15. Date Analyzed: 10/04/2011

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	620-14-4	Benzene, 1-ethyl-3-methyl-	14.93	15.	JN
02	95-63-6	Benzene, 1,2,4-trimethyl-	15.04	8.6	JN
03	611-14-3	Benzene, 1-ethyl-2-methyl-	15.35	10.	JN
04	526-73-8	Benzene, 1,2,3-trimethyl-	15.60	35.	JN
05	622-97-9	Benzene, 1-ethenyl-4-methyl-	16.54	8.3	JN
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	9.5	J

[1]EPA-designated Registry Number.

KJA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP43HB43

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	JB	10U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	0.50	JB	5.0U
156-60-5	trans-1,2-Dichloroethene	1.9	J	
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	2.9	J	
56-23-5	Carbon tetrachloride	5.0	U	
71-43-2	Benzene	14.		
107-06-2	1,2-Dichloroethane	5.0	U	
123-91-1	1,4-Dioxane	100	U	R

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

KJA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP43HB43

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	5.8	
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	0.46	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	9.2	
95-47-6	o-Xylene	0.26	J
179601-23-1	m,p-Xylene	1.7	J
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.2	
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

KSA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B43

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP43HB43

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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		Unknown 1,4-Pentadiene, 2,3,3-trimethyl-	9.17	9.4	J
02	611-14-3	Benzene, 1-ethyl-2-methyl-	12.44	72.	JN
03		Unknown Benzene, 1-methyl-3-propyl-	12.73	13.	J
04	496-11-7	Indane	13.22	330	JN
05	95-13-6	Indene	13.55	5.5	JN
06	874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	13.68	110	JN
07	27831-13-6	Benzene, 4-ethenyl-1,2-dimethyl-	13.73	22.	JN
08	7525-62-4	Benzene, 1-ethenyl-3-ethyl-	13.80	85.	JN
09	488-23-3	Benzene, 1,2,3,4-tetramethyl-	14.10	58.	JN
10	3454-07-7	Benzene, 1-ethenyl-4-ethyl-	14.38	9.4	JN
11	2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	14.58	160	JN
12	119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	14.73	19.	JN
13	767-59-9	1H-Indene, 1-methyl-	14.86	24.	JN
14	17057-82-8	1H-Indene, 2,3-dihydro-1,2-dimethyl-	14.95	12.	JN
15	56253-64-6	Benzene, (2-methyl-1-butenyl)-	15.03	23.	JN
16	56147-63-8	2-Ethyl-2,3-dihydro-1H-indene	15.42	8.5	JN
17	270-82-6	2-Benzothiophene	15.48	6.9	JN
18	6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	15.55	5.2	JN
19	6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	15.73	7.6	JN
20	6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	15.92	8.6	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	110	J

[1]EPA-designated Registry Number.

KsA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP37HB44

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	7.0		
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	9.6	JB	10 U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	6.2	B	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	R

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

KA
5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP37HB44

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. Date Analyzed: 10/03/2011

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	0.74	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	0.44	J
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

KJA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B44

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP37HB44

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	1123-56-4	2,6-Dimethylbenzaldehyde	16.08	36.	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

KJA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246002

Sample wt/vol: 5.03 (g/mL) g Lab File ID: SB11C002

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 17. Date Analyzed: 10/04/2011

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	12.	U	
75-15-0	Carbon disulfide	6.0	U	
79-20-9	Methyl acetate	6.0	U	
75-09-2	Methylene chloride	0.95	JB	6.0U
156-60-5	trans-1,2-Dichloroethene	6.0	U	
1634-04-4	Methyl tert-butyl ether	6.0	U	
75-34-3	1,1-Dichloroethane	6.0	U	
156-59-2	cis-1,2-Dichloroethene	6.0	U	
78-93-3	2-Butanone	12.	U	
74-97-5	Bromochloromethane	6.0	U	
67-66-3	Chloroform	6.0	U	
71-55-6	1,1,1-Trichloroethane	6.0	U	
110-82-7	Cyclohexane	6.0	U	
56-23-5	Carbon tetrachloride	6.0	U	
71-43-2	Benzene	6.0	U	
107-06-2	1,2-Dichloroethane	6.0	U	
123-91-1	1,4-Dioxane	120	U	R

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

KA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246002

Sample wt/vol: 5.03 (g/mL) g Lab File ID: SB11C002

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 17. Date Analyzed: 10/04/2011

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	6.0	U
75-27-4	Bromodichloromethane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	6.0	U
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
127-18-4	Tetrachloroethene	0.27	J
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	6.0	U
106-93-4	1,2-Dibromoethane	6.0	U
108-90-7	Chlorobenzene	6.0	U
100-41-4	Ethylbenzene	6.0	U
95-47-6	o-Xylene	6.0	U
179601-23-1	m,p-Xylene	6.0	U
100-42-5	Styrene	6.0	U
75-25-2	Bromoform	6.0	U
98-82-8	Isopropylbenzene	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
95-50-1	1,2-Dichlorobenzene	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U

KSA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B45

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246002

Sample wt/vol: 5.03 (g/mL) g Lab File ID: SB11C002

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 17. Date Analyzed: 10/04/2011

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					
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24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

KSA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B46

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP44HB46

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	2.8	JB	10U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	0.52	JB	5.0U
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	R

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

KJA
5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B46

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP44HB46

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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

KJA
5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B46

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP44HB46

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. Date Analyzed: 10/03/2011

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					
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23					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

KSA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246005

Sample wt/vol: 5.10 (g/mL) g Lab File ID: SB12C005

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 12. Date Analyzed: 10/04/2011

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	11.	U	
75-15-0	Carbon disulfide	5.6	U	
79-20-9	Methyl acetate	5.6	U	
75-09-2	Methylene chloride	0.75	JB	5.6U
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	R

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

KA
5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246005

Sample wt/vol: 5.10 (g/mL) g Lab File ID: SB12C005

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 12. Date Analyzed: 10/04/2011

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	5.6	U
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	0.27	J
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

KsA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246005

Sample wt/vol: 5.10 (g/mL) g Lab File ID: SB12C005

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 12. Date Analyzed: 10/04/2011

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					
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11					
12					
13					
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16					
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19					
20					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

KJA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B48

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP45HB48

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	1.7	JB	10U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	0.56	JB	5.0U
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	R

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

KA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B48

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP45HB48

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. Date Analyzed: 10/03/2011

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	1.0	J
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

KJA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B48

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252006

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP45HB48

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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					
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29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

KaA
5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B49

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246006

Sample wt/vol: 5.14 (g/mL) g Lab File ID: SB13C006

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 16. Date Analyzed: 10/04/2011

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	5.8	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	
67-64-1	Acetone	93.		
75-15-0	Carbon disulfide	4.1	J	
79-20-9	Methyl acetate	5.8	U	
75-09-2	Methylene chloride	0.82	JB	5.8U
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	40.		
74-97-5	Bromochloromethane	5.8	U	
67-66-3	Chloroform	5.8	U	
71-55-6	1,1,1-Trichloroethane	5.8	U	
110-82-7	Cyclohexane	5.8	U	
56-23-5	Carbon tetrachloride	5.8	U	
71-43-2	Benzene	5.8	U	
107-06-2	1,2-Dichloroethane	5.8	U	
123-91-1	1,4-Dioxane	120	U	12

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

KA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B49

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246006

Sample wt/vol: 5.14 (g/mL) g Lab File ID: SB13C006

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 16. Date Analyzed: 10/04/2011

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	5.8	U
108-87-2	Methylcyclohexane	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	0.22	J
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
100-41-4	Ethylbenzene	5.8	U
95-47-6	o-Xylene	5.8	U
179601-23-1	m,p-Xylene	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U

KzA
5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B49

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1127246006

Sample wt/vol: 5.14 (g/mL) g Lab File ID: SB13C006

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. 16. Date Analyzed: 10/04/2011

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.

KA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B50

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252007

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP46HB50

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	1.9	JB	10U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	0.52	JB	5.0U
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	0.64	J	
78-93-3	2-Butanone	10.	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
110-82-7	Cyclohexane	5.0	U	
56-23-5	Carbon tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
123-91-1	1,4-Dioxane	100	U	R

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

KJA
5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B50

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252007

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP46HB50

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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

KA 5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B50

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252007

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP46HB50

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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.

KA 5/15/12

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B51

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252008

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP47HB51

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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	1.9	JB	10U
75-15-0	Carbon disulfide	5.0	U	
79-20-9	Methyl acetate	5.0	U	
75-09-2	Methylene chloride	0.65	JB	5.0U
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	R

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

KA 5/15/12

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B51

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: _____ SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252008

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP47HB51

Level: (TRACE/LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. _____ Date Analyzed: 10/03/2011

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

KA
5/15/12

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H3B51

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 41738 Mod. Ref No.: SDG No.: H3B31

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1127252008

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP47HB51

Level: (TRACE or LOW/MED) LOW Date Received: 09/29/2011

% Moisture: not dec. Date Analyzed: 10/03/2011

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.

KDA 5/15/12

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B31
(900 East & Vine)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127041001

Sample wt/vol: 5.05 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. 20.6 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
75-34-3	1,1-Dichloroethane	6.2	U
75-35-4	1,1-Dichloroethene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
96-12-8	1,2-Dibromo-3-chloropropane	6.2	U
106-93-4	1,2-Dibromoethane	6.2	U
95-50-1	1,2-Dichlorobenzene	6.2	U
107-06-2	1,2-Dichloroethane	6.2	U
78-87-5	1,2-Dichloropropane	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
123-91-1	1,4-Dioxane	120	R
78-93-3	2-Butanone	24	
591-78-6	2-Hexanone	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
67-64-1	Acetone	50	
71-43-2	Benzene	6.2	U
74-97-5	Bromochloromethane	6.2	U
75-27-4	Bromodichloromethane	6.2	U
75-25-2	Bromoform	6.2	U
74-83-9	Bromomethane	6.2	U
75-15-0	Carbon disulfide	6.2	U
56-23-5	Carbon tetrachloride	6.2	U
108-90-7	Chlorobenzene	6.2	U
75-00-3	Chloroethane	6.2	U
67-66-3	Chloroform	6.2	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B31
(900 East & Vine)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127041001

Sample wt/vol: 5.05 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. 20.6 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
110-82-7	Cyclohexane	6.2	U
124-48-1	Dibromochloromethane	6.2	U
75-71-8	Dichlorodifluoromethane	6.2	U
100-41-4	Ethylbenzene	0.21	J
98-82-8	Isopropylbenzene	6.2	U
179601-23-1	m,p-Xylene	6.2	U
79-20-9	Methyl acetate	6.2	U
1634-04-4	Methyl tert-butyl ether	6.2	U
108-87-2	Methylcyclohexane	6.2	U
75-09-2	Methylene chloride	6.2	U
95-47-6	o-Xylene	6.2	U
100-42-5	Styrene	6.2	U
127-18-4	Tetrachloroethene	6.2	U
108-88-3	Toluene	0.35	J
156-60-5	trans-1,2-Dichloroethene	6.2	U
10061-02-6	trans-1,3-Dichloropropene	6.2	U
79-01-6	Trichloroethene	6.2	U
75-69-4	Trichlorofluoromethane	6.2	U
75-01-4	Vinyl chloride	6.2	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B32
(900 East & Vine)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043001

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B32
(900 East & Vine)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043001

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5.9	
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B33 (Copenhagen West)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127041002

Sample wt/vol: 4.64 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. 18.7 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U
79-00-5	1,1,2-Trichloroethane	6.6	U
75-34-3	1,1-Dichloroethane	6.6	U
75-35-4	1,1-Dichloroethene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	U
106-93-4	1,2-Dibromoethane	6.6	U
95-50-1	1,2-Dichlorobenzene	6.6	U
107-06-2	1,2-Dichloroethane	6.6	U
78-87-5	1,2-Dichloropropane	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
123-91-1	1,4-Dioxane	130	R
78-93-3	2-Butanone	13	U
591-78-6	2-Hexanone	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
67-64-1	Acetone	16	
71-43-2	Benzene	6.6	U
74-97-5	Bromochloromethane	6.6	U
75-27-4	Bromodichloromethane	6.6	U
75-25-2	Bromoform	6.6	U
74-83-9	Bromomethane	6.6	U
75-15-0	Carbon disulfide	6.6	U
56-23-5	Carbon tetrachloride	6.6	U
108-90-7	Chlorobenzene	6.6	U
75-00-3	Chloroethane	6.6	U
67-66-3	Chloroform	6.6	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B33 (Copenhagen West)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127041002

Sample wt/vol: 4.64 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. 18.7 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
10061-01-5	cis-1,3-Dichloropropene	6.6	U
110-82-7	Cyclohexane	6.6	U
124-48-1	Dibromochloromethane	6.6	U
75-71-8	Dichlorodifluoromethane	6.6	U
100-41-4	Ethylbenzene	0.24	J
98-82-8	Isopropylbenzene	6.6	U
179601-23-1	m,p-Xylene	6.6	U
79-20-9	Methyl acetate	6.6	U
1634-04-4	Methyl tert-butyl ether	6.6	U
108-87-2	Methylcyclohexane	6.6	U
75-09-2	Methylene chloride	6.6	U
95-47-6	o-Xylene	6.6	U
100-42-5	Styrene	6.6	U
127-18-4	Tetrachloroethene	6.6	U
108-88-3	Toluene	0.35	J
156-60-5	trans-1,2-Dichloroethene	6.6	U
10061-02-6	trans-1,3-Dichloropropene	6.6	U
79-01-6	Trichloroethene	6.6	U
75-69-4	Trichlorofluoromethane	6.6	U
75-01-4	Vinyl chloride	6.6	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B34 (Copenhagen West)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043002

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B34 (Copenhagen West)

Lab Name: ALS Environmental Contract:

Lab Code: DATAC Case No.: 41738 SAS No.: SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043002

Sample wt/vol: 5 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: ID: (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5.4	
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B35 (DERR)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043003

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B35 (DERR)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043003

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5.7	
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	0.42	J
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	0.71	J
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B36 (Oakwood Village Shopping Center)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043004

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B36 (Oakwood Village Shopping Center)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043004

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B37 (Oakwood Village Shopping Center)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043005

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B37 (Oakwood Village Shopping Center)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043005

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B38 (Oakwood Village Shopping Center)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127041003

Sample wt/vol: 4.67 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. 12.2 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
123-91-1	1,4-Dioxane	120	R
78-93-3	2-Butanone	17	
591-78-6	2-Hexanone	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
67-64-1	Acetone	38	
71-43-2	Benzene	6.1	U
74-97-5	Bromochloromethane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
75-25-2	Bromoform	6.1	U
74-83-9	Bromomethane	6.1	U
75-15-0	Carbon disulfide	1.2	J
56-23-5	Carbon tetrachloride	6.1	U
108-90-7	Chlorobenzene	6.1	U
75-00-3	Chloroethane	6.1	U
67-66-3	Chloroform	6.1	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B38 (Oakwood Village Shopping Center)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127041003

Sample wt/vol: 4.67 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. 12.2 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
110-82-7	Cyclohexane	6.1	U
124-48-1	Dibromochloromethane	6.1	U
75-71-8	Dichlorodifluoromethane	6.1	U
100-41-4	Ethylbenzene	6.1	U
98-82-8	Isopropylbenzene	6.1	U
179601-23-1	m,p-Xylene	6.1	U
79-20-9	Methyl acetate	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
108-87-2	Methylcyclohexane	6.1	U
75-09-2	Methylene chloride	6.1	U
95-47-6	o-Xylene	6.1	U
100-42-5	Styrene	6.1	U
127-18-4	Tetrachloroethene	6.1	U
108-88-3	Toluene	0.26	J
156-60-5	trans-1,2-Dichloroethene	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-01-6	Trichloroethene	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B39 (Rite-Aid)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127041004

Sample wt/vol: 4.46 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. 13.8 Date Analyzed: 10/5/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
123-91-1	1,4-Dioxane	130	R
78-93-3	2-Butanone	15	
591-78-6	2-Hexanone	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
67-64-1	Acetone	27	
71-43-2	Benzene	6.5	U
74-97-5	Bromochloromethane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
75-25-2	Bromoform	6.5	U
74-83-9	Bromomethane	6.5	U
75-15-0	Carbon disulfide	1.1	J
56-23-5	Carbon tetrachloride	6.5	U
108-90-7	Chlorobenzene	6.5	U
75-00-3	Chloroethane	6.5	U
67-66-3	Chloroform	0.64	J

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B39
(Rite-Aid)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127041004

Sample wt/vol: 4.46 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. 13.8 Date Analyzed: 10/5/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
110-82-7	Cyclohexane	6.5	U
124-48-1	Dibromochloromethane	6.5	U
75-71-8	Dichlorodifluoromethane	6.5	U
100-41-4	Ethylbenzene	6.5	U
98-82-8	Isopropylbenzene	6.5	U
179601-23-1	m,p-Xylene	6.5	U
79-20-9	Methyl acetate	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
108-87-2	Methylcyclohexane	6.5	U
75-09-2	Methylene chloride	6.5	U
95-47-6	o-Xylene	6.5	U
100-42-5	Styrene	6.5	U
127-18-4	Tetrachloroethene	6.5	U
108-88-3	Toluene	0.27	J
156-60-5	trans-1,2-Dichloroethene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-01-6	Trichloroethene	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B40 (Rite-Aid)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043006

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B40 (Rite-Aid)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127043006

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/27/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B42
(Chase Bank)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246001

Sample wt/vol: 4.45 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 15.2 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U
79-00-5	1,1,2-Trichloroethane	6.6	U
75-34-3	1,1-Dichloroethane	6.6	U
75-35-4	1,1-Dichloroethene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	U
106-93-4	1,2-Dibromoethane	6.6	U
95-50-1	1,2-Dichlorobenzene	6.6	U
107-06-2	1,2-Dichloroethane	6.6	U
78-87-5	1,2-Dichloropropane	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
123-91-1	1,4-Dioxane	130	R
78-93-3	2-Butanone	19	
591-78-6	2-Hexanone	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
67-64-1	Acetone	48	
71-43-2	Benzene	2.1	J
74-97-5	Bromochloromethane	6.6	U
75-27-4	Bromodichloromethane	6.6	U
75-25-2	Bromoform	6.6	U
74-83-9	Bromomethane	6.6	U
75-15-0	Carbon disulfide	4	J
56-23-5	Carbon tetrachloride	6.6	U
108-90-7	Chlorobenzene	6.6	U
75-00-3	Chloroethane	6.6	U
67-66-3	Chloroform	6.6	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B42 (Chase Bank)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246001

Sample wt/vol: 4.45 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 15.2 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
10061-01-5	cis-1,3-Dichloropropene	6.6	U
110-82-7	Cyclohexane	30	
124-48-1	Dibromochloromethane	6.6	U
75-71-8	Dichlorodifluoromethane	6.6	U
100-41-4	Ethylbenzene	11	
98-82-8	Isopropylbenzene	1.5	J
179601-23-1	m,p-Xylene	28	
79-20-9	Methyl acetate	6.6	U
1634-04-4	Methyl tert-butyl ether	6.6	U
108-87-2	Methylcyclohexane	13	
75-09-2	Methylene chloride	6.6	U
95-47-6	o-Xylene	6.7	
100-42-5	Styrene	6.6	U
127-18-4	Tetrachloroethene	6.6	U
108-88-3	Toluene	1.1	J
156-60-5	trans-1,2-Dichloroethene	6.6	U
10061-02-6	trans-1,3-Dichloropropene	6.6	U
79-01-6	Trichloroethene	6.6	U
75-69-4	Trichlorofluoromethane	6.6	U
75-01-4	Vinyl chloride	6.6	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B43
(Chase Bank)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252001

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	14	
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B43
(Chase Bank)

Lab Name: ALS Environmental Contract:

Lab Code: DATAC Case No.: 41738 SAS No.: SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252001

Sample wt/vol: 5 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: ID: (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	2.9	J
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	9.2	
98-82-8	Isopropylbenzene	5.2	
179601-23-1	m,p-Xylene	1.7	J
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5.8	
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	0.26	J
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	0.46	J
156-60-5	trans-1,2-Dichloroethene	1.9	J
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B44 (DERR)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252002

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B44 (DERR)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252002

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	7	
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	0.44	J
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	0.74	J
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B45 (Pizza Hut)

Lab Name: ALS Environmental Contract:

Lab Code: DATAC Case No.: 41738 SAS No.: SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246002

Sample wt/vol: 5.03 (g/mL) g Lab File ID:

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 17.3 Date Analyzed: 10/4/2011

GC Column: ID: (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
75-35-4	1,1-Dichloroethene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
106-93-4	1,2-Dibromoethane	6	U
95-50-1	1,2-Dichlorobenzene	6	U
107-06-2	1,2-Dichloroethane	6	U
78-87-5	1,2-Dichloropropane	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
123-91-1	1,4-Dioxane	120	R
78-93-3	2-Butanone	12	U
591-78-6	2-Hexanone	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
67-64-1	Acetone	12	U
71-43-2	Benzene	6	U
74-97-5	Bromochloromethane	6	U
75-27-4	Bromodichloromethane	6	U
75-25-2	Bromoform	6	U
74-83-9	Bromomethane	6	U
75-15-0	Carbon disulfide	6	U
56-23-5	Carbon tetrachloride	6	U
108-90-7	Chlorobenzene	6	U
75-00-3	Chloroethane	6	U
67-66-3	Chloroform	6	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B45 (Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246002

Sample wt/vol: 5.03 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 17.3 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
110-82-7	Cyclohexane	6	U
124-48-1	Dibromochloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
100-41-4	Ethylbenzene	6	U
98-82-8	Isopropylbenzene	6	U
179601-23-1	m,p-Xylene	6	U
79-20-9	Methyl acetate	6	U
1634-04-4	Methyl tert-butyl ether	6	U
108-87-2	Methylcyclohexane	6	U
75-09-2	Methylene chloride	6	U
95-47-6	o-Xylene	6	U
100-42-5	Styrene	6	U
127-18-4	Tetrachloroethene	0.27	J
108-88-3	Toluene	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
75-69-4	Trichlorofluoromethane	6	U
75-01-4	Vinyl chloride	6	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B45MS (Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246003

Sample wt/vol: 5.82 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 17.3 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
75-35-4	1,1-Dichloroethene	64	
87-61-6	1,2,3-Trichlorobenzene	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	58	
74-97-5	Bromochloromethane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
75-25-2	Bromoform	5.2	U
74-83-9	Bromomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
108-90-7	Chlorobenzene	58	
75-00-3	Chloroethane	5.2	U
67-66-3	Chloroform	0.57	J

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B45MS
(Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246003

Sample wt/vol: 5.82 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 17.3 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
110-82-7	Cyclohexane	5.2	U
124-48-1	Dibromochloromethane	5.2	U
75-71-8	Dichlorodifluoromethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
98-82-8	Isopropylbenzene	5.2	U
179601-23-1	m,p-Xylene	5.2	U
79-20-9	Methyl acetate	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
108-87-2	Methylcyclohexane	5.2	U
75-09-2	Methylene chloride	5.2	U
95-47-6	o-Xylene	5.2	U
100-42-5	Styrene	5.2	U
127-18-4	Tetrachloroethene	0.25	J
108-88-3	Toluene	58	
156-60-5	trans-1,2-Dichloroethene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-01-6	Trichloroethene	61	
75-69-4	Trichlorofluoromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B45MSD (Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246004

Sample wt/vol: 5.1 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 17.3 Date Analyzed: 10/5/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
75-35-4	1,1-Dichloroethene	77	
87-61-6	1,2,3-Trichlorobenzene	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
123-91-1	1,4-Dioxane	120	R
78-93-3	2-Butanone	12	U
591-78-6	2-Hexanone	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
67-64-1	Acetone	12	U
71-43-2	Benzene	68	
74-97-5	Bromochloromethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
75-25-2	Bromoform	5.9	U
74-83-9	Bromomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
108-90-7	Chlorobenzene	70	
75-00-3	Chloroethane	5.9	U
67-66-3	Chloroform	1.1	J

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B45MSD (Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246004

Sample wt/vol: 5.1 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 17.3 Date Analyzed: 10/5/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
110-82-7	Cyclohexane	5.9	U
124-48-1	Dibromochloromethane	5.9	U
75-71-8	Dichlorodifluoromethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
98-82-8	Isopropylbenzene	5.9	U
179601-23-1	m,p-Xylene	5.9	U
79-20-9	Methyl acetate	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
108-87-2	Methylcyclohexane	5.9	U
75-09-2	Methylene chloride	5.9	U
95-47-6	o-Xylene	5.9	U
100-42-5	Styrene	5.9	U
127-18-4	Tetrachloroethene	0.25	J
108-88-3	Toluene	70	
156-60-5	trans-1,2-Dichloroethene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-01-6	Trichloroethene	73	
75-69-4	Trichlorofluoromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B46
(Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252003

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B46
(Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252003

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B46MS (Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252004

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	51	
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	50	
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	49	
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B46MS (Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252004

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	49	
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	49	
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B46MSD (Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252005

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	57	
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	55	
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	53	
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B46MSD (Pizza Hut)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252005

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	53	
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	53	
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B47
(Quick Lube)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246005

Sample wt/vol: 5.1 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 12.3 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
123-91-1	1,4-Dioxane	110	R
78-93-3	2-Butanone	11	U
591-78-6	2-Hexanone	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
67-64-1	Acetone	11	U
71-43-2	Benzene	5.6	U
74-97-5	Bromochloromethane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
75-25-2	Bromoform	5.6	U
74-83-9	Bromomethane	5.6	U
75-15-0	Carbon disulfide	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
108-90-7	Chlorobenzene	5.6	U
75-00-3	Chloroethane	5.6	U
67-66-3	Chloroform	5.6	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B47 (Quick Lube)

Lab Name: ALS Environmental Contract:

Lab Code: DATAC Case No.: 41738 SAS No.: SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246005

Sample wt/vol: 5.1 (g/mL) g Lab File ID:

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 12.3 Date Analyzed: 10/4/2011

GC Column: ID: (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
110-82-7	Cyclohexane	5.6	U
124-48-1	Dibromochloromethane	5.6	U
75-71-8	Dichlorodifluoromethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
98-82-8	Isopropylbenzene	5.6	U
179601-23-1	m,p-Xylene	5.6	U
79-20-9	Methyl acetate	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
108-87-2	Methylcyclohexane	5.6	U
75-09-2	Methylene chloride	5.6	U
95-47-6	o-Xylene	5.6	U
100-42-5	Styrene	5.6	U
127-18-4	Tetrachloroethene	0.27	J
108-88-3	Toluene	5.6	U
156-60-5	trans-1,2-Dichloroethene	5.6	U
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-01-6	Trichloroethene	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B48 (Quick Lube)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252006

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B48 (Quick Lube)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252006

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	1	J
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B49
(Sports Authority)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246006

Sample wt/vol: 5.14 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 16.5 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
123-91-1	1,4-Dioxane	120	R
78-93-3	2-Butanone	40	
591-78-6	2-Hexanone	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
67-64-1	Acetone	93	
71-43-2	Benzene	5.8	U
74-97-5	Bromochloromethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
75-25-2	Bromoform	5.8	U
74-83-9	Bromomethane	5.8	U
75-15-0	Carbon disulfide	4.1	J
56-23-5	Carbon tetrachloride	5.8	U
108-90-7	Chlorobenzene	5.8	U
75-00-3	Chloroethane	5.8	U
67-66-3	Chloroform	5.8	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B49
(Sports Authority)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246006

Sample wt/vol: 5.14 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 16.5 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
110-82-7	Cyclohexane	5.8	U
124-48-1	Dibromochloromethane	5.8	U
75-71-8	Dichlorodifluoromethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
98-82-8	Isopropylbenzene	5.8	U
179601-23-1	m,p-Xylene	5.8	U
79-20-9	Methyl acetate	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
108-87-2	Methylcyclohexane	5.8	U
75-09-2	Methylene chloride	5.8	U
95-47-6	o-Xylene	5.8	U
100-42-5	Styrene	5.8	U
127-18-4	Tetrachloroethene	5.8	U
108-88-3	Toluene	0.22	J
156-60-5	trans-1,2-Dichloroethene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-01-6	Trichloroethene	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B50 (Sports Authority)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252007

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B50 (Sports Authority)

Lab Name: ALS Environmental Contract:

Lab Code: DATAC Case No.: 41738 SAS No.: SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252007

Sample wt/vol: 5 (g/mL) mL Lab File ID:

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: ID: (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	0.64	J
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B51 (Sports Mall Athletic Club)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252008

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B51 (Sports Mall Athletic Club)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 1127252008

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B52 (Sports Mall Athletic Club)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246007

Sample wt/vol: 5.35 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 11.4 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
123-91-1	1,4-Dioxane	110	R
78-93-3	2-Butanone	11	U
591-78-6	2-Hexanone	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
67-64-1	Acetone	11	U
71-43-2	Benzene	5.3	U
74-97-5	Bromochloromethane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
75-25-2	Bromoform	5.3	U
74-83-9	Bromomethane	5.3	U
75-15-0	Carbon disulfide	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
108-90-7	Chlorobenzene	5.3	U
75-00-3	Chloroethane	5.3	U
67-66-3	Chloroform	0.62	J

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H3B52 (Sports Mall Athletic Club)

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 1127246007

Sample wt/vol: 5.35 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 9/29/2011

% Moisture: not dec. 11.4 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
110-82-7	Cyclohexane	5.3	U
124-48-1	Dibromochloromethane	5.3	U
75-71-8	Dichlorodifluoromethane	5.3	U
100-41-4	Ethylbenzene	5.3	U
98-82-8	Isopropylbenzene	5.3	U
179601-23-1	m,p-Xylene	5.3	U
79-20-9	Methyl acetate	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
108-87-2	Methylcyclohexane	5.3	U
75-09-2	Methylene chloride	5.3	U
95-47-6	o-Xylene	5.3	U
100-42-5	Styrene	5.3	U
127-18-4	Tetrachloroethene	5.3	U
108-88-3	Toluene	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-01-6	Trichloroethene	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS2
()

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 240834

Sample wt/vol: 5 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	1.9	J
120-82-1	1,2,4-Trichlorobenzene	0.84	J
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS2
()

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 240834

Sample wt/vol: 5 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 10/4/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	0.58	J
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW1
()

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 240817

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	2	J
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW1
()

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 240817

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	1	J
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKS1
()

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 240835

Sample wt/vol: 5 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 10/5/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKS1
()

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) SOIL Lab Sample ID: 240835

Sample wt/vol: 5 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 10/5/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	0.17	J
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	0.76	J
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	0.74	J
75-01-4	Vinyl chloride	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKW1
()

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 240818

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
106-93-4	1,2-Dibromoethane	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-06-2	1,2-Dichloroethane	5	U
78-87-5	1,2-Dichloropropane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
123-91-1	1,4-Dioxane	100	R
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
67-64-1	Acetone	10	U
71-43-2	Benzene	5	U
74-97-5	Bromochloromethane	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	5	U
75-15-0	Carbon disulfide	5	U
56-23-5	Carbon tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	5	U
67-66-3	Chloroform	5	U

1A (e-form)

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKW1
()

Lab Name: ALS Environmental Contract: _____

Lab Code: DATAC Case No.: 41738 SAS No.: _____ SDG No.: H3B31

Matrix: (soil/water) WATER Lab Sample ID: 240818

Sample wt/vol: 5 (g/mL) mL Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. NA Date Analyzed: 10/3/2011

GC Column: _____ ID: _____ (mm) Dilution Factor: 1

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
110-82-7	Cyclohexane	5	U
124-48-1	Dibromochloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
100-41-4	Ethylbenzene	5	U
98-82-8	Isopropylbenzene	5	U
179601-23-1	m,p-Xylene	5	U
79-20-9	Methyl acetate	5	U
1634-04-4	Methyl tert-butyl ether	5	U
108-87-2	Methylcyclohexane	5	U
75-09-2	Methylene chloride	0.82	J
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U