Groundwater Monitoring Summary Report
March 2005 (First Quarter)
American Chemical Service, Inc. National Priorities List Site
Griffith, Indiana

PREPARED FOR:

ACS RD/RA EXECUTIVE COMMITTEE

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SECTION 1.0 – EXECUTIVE SUMMARY

MWH Americas (MWH) has prepared this Groundwater Monitoring Summary Report to present the results from the March 2005 groundwater sampling event at the American Chemical Service, Inc. (ACS) National Priorities List (NPL) Site in Griffith, Indiana. These activities were performed in accordance with the revised long-term groundwater monitoring plan (LTGMP) and the November 2001 United States Environmental Protection Agency (U.S. EPA)-approved Quality Assurance Project Plan (QAPP). The U.S. EPA and Indiana Department of Environmental Management (IDEM) approved the revised LTGMP in a letter dated June 26, 2002.

During the March 2005 sampling event, water level measurements were collected at 80 monitoring wells, piezometers, and staff gauges, and groundwater samples were collected at 16 upper aquifer wells and 16 lower aquifer wells in the monitoring network. The groundwater samples were analyzed for indicator parameters.

March 2005 groundwater elevations in the upper and lower aquifers were generally higher than those measured in March 2004 and September 2004. Hydraulic gradients remained consistent with those recorded during previous sampling rounds.

Groundwater samples collected from 16 upper aquifer monitoring wells indicate that groundwater plumes to the north and south of the ACS Site have not expanded and that concentrations within the plumes are decreasing. The bis(2-chloroethyl)ether concentration in the sample collected from interior well MW19 exceeded the maximum baseline concentration, but was nevertheless consistent with previous detections in samples collected from this well. There were no other exceedances in upper aquifer groundwater samples during March 2005.

In the lower aquifer, groundwater results continue to show fluctuating concentrations. Indicator VOCs were detected in samples collected from five of the 16 lower aquifer wells. Benzene exceeded the maximum baseline concentration in the sample collected from MW10C, and chloroethane exceeded the maximum baseline concentration in the sample collected from MW29. Well MW29 is nested with well MW09R and screened in the middle of the lower aquifer. Benzene has not been detected in recent samples collected from this well, but chloroethane concentrations have shown an increasing trend. Conversely, benzene and chloroethane concentrations in sample results from well MW09R, screened at the top of the lower aquifer, continue to show a decreasing trend and are significantly lower than the maximum baseline concentrations for this well. Concentrations of benzene from the sample collected at MW56 and MW10C increased slightly but were consistent with previous results. The benzene

concentration in the sample collected at downgradient well MW53 increased slightly since September 2004. Recent benzene concentrations in the samples collected from this well have shown a slowly increasing trend.

In response to the baseline exceedance at upper aquifer well MW19, MWH proposes to continue monitoring the concentrations in this well.

In response to the baseline exceedances and/or increasing concentration trends at MW10C, MW29, MW53, and MW56, MWH proposes to continue monitoring the concentrations in these wells. MWH is preparing to continue the lower aquifer investigation to determine the distribution of benzene in the lower aquifer near MW53.

SECTION 2.0 – MARCH 2005 DATA COLLECTION ACTIVITIES

The groundwater monitoring activities conducted at the Site during March 2005 included measuring water levels and collecting and analyzing samples from monitoring wells.

2.1 WATER LEVEL MEASUREMENTS

Water level measurements were collected at 80 upper and lower aquifer wells, piezometers, and surface water staff gauges on March 21, 2005. The water level could not be measured at MW10C, as the well currently contains a groundwater pump and associated piping that prevents water level measurement. Also, the water level could not be measured at piezometer P31 because it was dry. Staff gauge SG8R2 was not measured because adjacent staff gauge SG8R was accessible during this sampling event. **Table 1** contains the water level measurements, map coordinates (reference points), top of well casing elevations, and calculated groundwater elevations for the measurement points.

2.2 GROUNDWATER SAMPLING

Groundwater sampling activities were conducted from March 22 through 29, 2004. Each monitoring well was sampled using low-flow methods in accordance with the Groundwater Sampling Standard Operating Procedure (SOP) developed for the revised LTGMP. Field parameters (pH, specific conductivity, temperature, dissolved oxygen [DO], oxidation-reduction potential [ORP], and turbidity) were measured during well purging, and the values recorded upon stabilization are presented in **Table 2**.

The groundwater samples were sent overnight under chain-of-custody to CompuChem Laboratory, Cary, North Carolina, where they were analyzed for the parameters summarized in **Table 3**. The table lists the upper and lower aquifer monitoring wells in the monitoring well network and the parameters analyzed in the samples collected from each well during the March 2005 event.

SECTION 3.0 – MARCH 2005 GROUNDWATER DATA EVALUATION

3.1 GROUNDWATER FLOW SYSTEM DATA

The groundwater elevations listed in **Table 1** were used to develop a water table contour map (**Figure 1**) for the upper aquifer and a potentiometric surface contour map for the lower aquifer (**Figure 2**).

During March 2005, the groundwater elevations measured in upper aquifer wells and piezometers were about 3 feet higher than measured in September 2004, and about 0.5 feet higher than measured in March 2004. These higher groundwater elevations are likely related to seasonal variations in precipitation.

The groundwater flow pattern in the upper aquifer during March 2005 was consistent with previous monitoring events. Regional groundwater flow is generally east to west, but as it approaches the site it is diverted to the north and south by the barrier wall. The gradient northwest of the site is relatively flat due to the effects of the PGCS trench, barrier wall, and discharge points from the groundwater treatment plant. Groundwater to the south of the site flows to the south and southeast.

The groundwater elevations measured in lower aquifer wells in March 2005 were about 3.5 feet higher than measured in September 2004, and about 1 foot higher than measured in March 2004. The groundwater flow pattern in the lower aquifer is northward at a relatively low hydraulic gradient. The hydraulic gradient across the site from south to north (calculated between wells MW50 and MW52) was 0.00045 feet per foot (ft/ft) during March 2005. The average hydraulic gradient calculated between the two wells in the lower aquifer since 1995 is 0.00039 ft/ft.

The groundwater elevations measured inside and outside of the barrier wall and near the PGCS are discussed in the *Quarterly Monitoring Report for Active Treatment Systems – First Quarter 2005*. In general they show that groundwater extraction is maintaining an inward gradient.

3.2 MONITORING WELL ANALYTICAL DATA

In accordance with the LTGMP, samples from 16 wells in the upper aquifer and 16 wells in the lower aquifer were analyzed for indicator parameters, which include benzene, chloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride. Samples from wells MW06, MW19, and MW09R were analyzed for the indicator semi-volatile organic compound (SVOC) bis(2-chloroethyl)ether, and

samples from wells MW06, MW15, and MW43 were analyzed for the indicator metal arsenic.

In accordance with the LTGMP, the analytical results from the upper and lower aquifer monitoring wells were compared to the 1997 maximum baseline concentrations (**Appendix A**). This comparison is primarily useful for wells located in the plume areas (interior wells) or those with a history of VOC detections. However, no VOCs were detected in samples from most of the upgradient and downgradient monitoring wells during the baseline sampling activities. In these cases the detection limit (typically 10 μg/l) was selected as the maximum baseline concentration for these wells. Because detections of indicator compounds at concentrations below their maximum baseline concentrations can still be significant, current sample results are also compared to previous sampling data to determine if an increasing or decreasing trend may be occurring.

3.2.1 Upper Aquifer Results

Table 4 summarizes the indicator parameter results in the samples from the 16 upper aquifer wells collected during March 2005. **Figure 3** shows the well locations and detected indicator compounds on a map of the ACS Site. Graphs presenting the concentrations of benzene and chloroethane versus time for the upper aquifer monitoring wells are presented in **Appendix B**. The laboratory analytical reports and validation narrative for samples from the upper aquifer are provided in **Appendix C**.

VOC Results

Benzene and chloroethane impacts have been observed outside of the barrier wall in two areas of the upper aquifer. North of the site, these detections have consistently occurred in samples collected from wells MW48 and MW49. South of the site, benzene and chloroethane detections have extended from samples collected at MW06 to MW19 and MW45. The groundwater monitoring program in the upper aquifer has focused on monitoring concentrations upgradient, within, and downgradient of these impacted areas.

- Upgradient wells: Benzene and chloroethane were not detected in samples collected from upgradient monitoring wells MW11, MW12, or MW17. Tetrachloroethene, which has occasionally been detected at trace concentrations in previous samples from MW17, was detected at an estimated concentration of 1.1 μg/l in the sample from MW17 during March 2005.
- Interior wells: Benzene and chloroethane were detected in samples collected from several interior wells, but did not exceed baseline concentrations. Concentrations of benzene in the samples collected from wells MW48 and MW49 remained elevated (290 μg/l and 89 μg/l, respectively), but were

significantly below the maximum baseline concentrations for these wells (9,500 µg/l and 6,750 µg/l, respectively). Benzene was not detected in the sample collected from well MW06, and was only detected at trace, estimated concentrations in the samples collected at wells MW19 and MW45, located downgradient of MW06. Chloroethane was detected in the samples collected from MW06, MW19, MW48 and MW49.

- Downgradient wells: Benzene and chloroethane were not detected in samples from any downgradient wells in the upper aquifer. Trace amounts of other VOCs were detected at estimated concentrations in samples collected from MW14 (Trichloroethene, 1.2 µg/l) and MW39 (Trans-1,2-dichloroethene, 1.5 µg/l).

- Tentatively Identified Compounds: A few tentatively identified compounds (TICs) were detected in the samples from upper aquifer wells MW11, MW12, MW15, MW17, MW19, MW42, and MW45. Ethyl ether, detected in some samples from lower aquifer wells, was detected in the sample from MW19 (6.6 µg/l). Other TICs included 4-ethenylcyclohexane, naphthalene, acenaphthene, and various benzene-related compounds.

SVOC Results

During March 2005, the indicator compound bis(2-chloroethyl)ether was detected in the sample collected from upper aquifer monitoring well MW19 (19 µg/l), but not detected in the sample collected from MW06. The concentration detection at MW19 exceeded the maximum baseline concentration (12 µg/l) for this well.

Inorganic Results

During March 2005, the indicator compound arsenic was detected in the samples collected from wells MW15 (13.2 µg/l) and MW43 (11.1 µg/l), and was not detected in the sample collected from MW06. The detections at MW15 and MW43 were below the U.S. EPA maximum contaminant level (MCL) of 50 µg/l and less than the maximum baseline concentration for these wells.

3.2.2 Lower Aquifer Results

Table 5 summarizes the indicator VOC results in the samples from 16 lower aquifer wells collected during March 2005. **Figure 4** shows the well locations and detected indicator VOCs on a map of the ACS Site. Graphs presenting the concentrations of benzene and chloroethane versus time for the lower aquifer monitoring wells are presented in **Appendix B**. The laboratory analytical reports and validation narrative for samples from the lower aquifer are provided in **Appendix C**.

VOC Results

In the past, benzene and chloroethane have been detected in the samples collected from lower aquifer monitoring wells MW09, ATMW4D, and MW10C. Failure

of the surface seal at MW09 and ATMW4D probably provided the path which allowed benzene and chloroethane to migrate locally into the lower aquifer. These wells have been properly abandoned and replaced by MW09R and MW56. It is unclear if detections in samples from MW10C and MW53 are a downgradient indication of the migration from MW09 or ATMW4D. A lower aquifer investigation is being conducted to address this uncertainty.

- Upgradient well: No VOCs were detected in the sample collected from lower aquifer monitoring well MW28, located south of the site.
- Interior wells: Benzene and chloroethane were the only indicator VOCs detected in the samples collected from interior wells MW09R, MW10C, MW29, and MW56. Concentrations of benzene in the sample collected from MW10C (260 μg/l) and chloroethane in the sample collected from MW29 (80 μg/l) exceeded maximum baseline concentrations during March 2005. MW29 is nested with MW09R and screened in the middle of the lower aquifer. No other concentrations exceeded their maximum baseline concentrations.
- Downgradient wells: VOCs were detected in samples collected from two downgradient monitoring wells during March 2005. Benzene was detected in the sample collected from MW53 (9.2 μg/l), and tetrachloroethene was detected at trace levels in the sample collected from MW30. These compounds were not detected in samples collected from these wells during the baseline sampling event.
- Tentatively Identified Compounds: A few TICs were detected in the samples from several lower aquifer wells. Ethyl ether was detected in samples from MW08 (17 μg/l), MW09R (6.3 μg/l), MW10C (110 μg/l), MW51 (1,400 μg/l), and MW52 (1,900 μg/l). Other TICs included 1,4 dioxane, 1,3-dioxolane, and tetrahydrofuran.

SVOC Results

The indicator compound bis(2-chloroethyl)ether was detected at 8 μg/l in the sample collected from lower aquifer well MW09R during March 2005. The concentration was below the maximum baseline concentration (50 μg/l) for this well.

3.2.3 Discussion

The Site source areas are currently contained within the barrier wall which is limiting migration of contaminants to adjacent areas in the upper aquifer. The groundwater monitoring program is structured specifically to monitor groundwater outside the barrier wall.

Upper Aquifer

VOCs

North of the Site, sampling results since 1997 from interior wells MW48 and MW49 continue to show generally decreasing concentration trends. Years of monitoring data at these wells show that concentrations fluctuate on a seasonal pattern, with concentrations being higher during the summer and fall months and lower when sampled in winter and spring. The March 2005 benzene concentration in the sample from MW48 (290 µg/l) is lower than the concentration from the previous spring sample (March 2004, 590 µg/l). The benzene concentration in the sample from MW49 (89 µg/l) is also lower than the March 2004 concentration (1,100 µg/l) and is the lowest benzene concentration detected in samples from this well in the past several years. Chloroethane concentrations in the samples from MW48 and MW49 during March 2005 have also decreased compared to previous sampling results.

Several of the upper aquifer monitoring wells located south of the Site also exhibit seasonal variability. Concentrations in samples from MW06 are generally higher when sampled in the winter and spring months and lower when sampled in the summer and fall months. Benzene was not detected and chloroethane was estimated at a trace concentration in the sample from MW06 during March 2005. These results are significantly lower than previous spring sample results. Benzene and chloroethane were estimated at trace concentrations in the sample from this well in September 2004.

Variable concentrations are also seen in samples collected from interior well MW19, located 500 feet downgradient of MW06. While the benzene concentrations in samples from this well have been below 5 µg/l over the last few sampling events, the chloroethane concentrations have remained near the maximum baseline concentration for this well (20 µg/l). In contrast, benzene and chloroethane concentrations in samples collected from interior well MW45, located 1000 feet downgradient of MW06, show decreasing concentration trends over the last several years. Benzene and chloroethane concentrations have been at or below 5 µg/l during the last few sampling events. This decreasing concentration trend is clearly shown in the graph for MW45 in **Appendix B**.

Tetrachloroethene was detected at a trace amount in the sample from MW17 during March 2005. Tetrachloroethene has occasionally been detected at trace amounts in samples collected from this well during previous sampling events. Benzene and chloroethane have not historically been detected in samples collected from this well, which was located downgradient from the Kapica-Pazmey area prior to installation of the barrier wall. After installation of the barrier wall, the local groundwater gradient reversed in this area causing well

MW17 to be situated upgradient of the Site. This well replaced upgradient well MW18 in the monitoring well network after MW18 became obstructed and was abandoned in March 2002.

Trace amounts of VOCs have occasionally been detected at some downgradient wells. However, the concentrations at these downgradient wells generally:

- Are below maximum baseline concentrations,
- Show decreasing trends, or
- Are only occasionally detected.

Data from upper aquifer monitoring wells indicate that VOC contamination has not spread beyond historical limits. Perimeter monitoring wells have been generally free of benzene and chloroethane detections and concentrations within the plume have generally been decreasing.

MWH is currently conducting an In-Situ Chemical Oxidation (ISCO) treatment of residual hydrocarbons south of the Site near the intersection of Colfax Street and Reder Road. These residual hydrocarbons are believed to be feeding the groundwater plume observed south of the Site in samples collected from wells MW06, MW19, and MW45. The first full-scale treatment was completed in September 2004, and a second was completed in April 2005. A third full-scale treatment is planned for July or August 2005. The decreases in concentrations observed in the samples collected from well MW06 is likely related to these treatments.

SVOCs

The LTGMP requires that upper aquifer monitoring wells MW06 and MW19 be analyzed annually for bis(2-chloroethyl)ether. The concentrations of bis(2-chloroethyl)ether in recent samples collected from MW19 have remained relatively consistent, fluctuating between 12 μg/l and 20 μg/l. At MW06, recent concentrations of bis(2-chloroethyl)ether have shown a slowly decreasing trend.

Inorganics

The LTGMP requires that samples from monitoring wells MW06, MW15, and MW43 be analyzed annually for arsenic. Concentrations of arsenic in samples collected from these wells during recent sampling events have shown decreasing trends at each well.

Lower Aquifer

VOCs

In the lower aquifer, the groundwater results continue to show isolated detections of VOCs, apparently related to localized effects. Before MW09 was replaced, samples collected from it contained concentrations of benzene and chloroethane as high as 290 and 2,900 μg/l, respectively. Since MW09R replaced MW09, the benzene and chloroethane concentrations have

decreased to the current concentrations of 6.8 and 3.8 µg/l, respectively.

Nested with well MW09R are MW29 and MW34. MW09R is screened in the upper portion of the lower aquifer, and MW29 and MW34 are screened in the middle and lower part of the lower aquifer, respectively. In well MW29, benzene has not been detected in recent samples, but concentrations of chloroethane have gradually increased over the last several sampling events and have exceeded maximum baseline concentrations since September 2002. The increase in chloroethane concentrations in samples from MW29 is likely due to diffusion because of a concentration gradient between this well and MW09R. Chloroethane has been detected as high as 680 µg/l in samples from MW09R as recently as September 2001. Benzene and chloroethane have not been detected in samples from well MW34.

The concentration of benzene in samples collected from MW10C increased from 190 µg/l in September 2004 to 290 µg/l in March 2005. However, benzene concentrations have decreased in recent samples from 4,800 µg/l in March 2003. The concentration of benzene in the sample collected from MW56 (1,200 µg/l) is consistent with previous concentrations.

In response to consistently elevated benzene concentrations in samples collected from interior wells MW10C and MW56, a purging system was installed at these wells and has been operating since October 2002. This system extracts groundwater at a rate of about two gallons per minute at each well, and the water is directed to the groundwater treatment plant where it is treated and discharged to the wetlands. Flow meters installed at each well are inspected regularly to provide a measure of the gallons pumped. As of the end of March 2005, the system has pumped about 3,200,000 gallons of groundwater from these wells (**Appendix D**). These low-rate extraction pumps operating in MW10C and MW56 may be a factor in the variability observed in VOC concentrations in samples collected from these wells.

In samples collected from downgradient well MW53, located along the northern boundary of the Site northwest of the ACS facility, benzene concentrations have increased gradually from below detection limits in 1997 to 9.2 µg/l in March 2005. Historical groundwater elevations indicate a very small downward gradient at this location. It is unclear if the benzene concentrations in samples collected from MW53 are hydraulically connected to the detections in samples collected from MW10C or MW09R, which are screened higher in the lower aquifer.

MWH will conduct the second phase of the lower aquifer groundwater investigation in July 2005. This second phase will involve collecting data from the lower aquifer in the vicinity of MW53. MWH conducted the first phase of this investigation near lower aquifer well MW10C in November 2004.

Tetrachloroethene has been detected at trace, estimated concentrations in the samples collected from downgradient well MW30 during the last two sampling events, September 2004 (1 µg/l) and March 2005 (2.3 µg/l). This compound was not detected in samples collected from this well prior to September 2004. Well MW30 is screened in the middle of the lower aquifer. Concentrations of tetrachloroethene at this well will be monitored in future sampling events.

SVOC Results

The LTGMP requires that samples from lower aquifer monitoring well MW09R be analyzed annually for bis(2-chloroethyl)ether. During March 2005, the concentration in the sample collected from MW09R (8 µg/l) was below its maximum baseline concentration. This concentration was in the range of recent detections at this well.

SECTION 4.0 – CONCLUSIONS

The March 2005 water levels and groundwater samples were collected from wells at the ACS Site to meet the following objectives from the revised LTGMP:

1. **Collect water level data to confirm that groundwater flow regimes in the upper and lower aquifers are consistent with historical flow patterns.**

   The groundwater flow regimes determined from March 2005 data are consistent with past conditions for both the upper and lower aquifers.

2. **Collect water level data to confirm that the Barrier Wall Extraction System (BWES) and Perimeter Groundwater Containment System (PGCS) are affecting the upper aquifer hydraulic gradients as planned.**

   The data indicate the barrier wall is containing the groundwater enclosed within the wall. The regional groundwater flow from the east is diverted toward the north and south around the barrier wall. The groundwater diverted to the north is collected in the PGCS extraction trench. Groundwater diverted south flows along the barrier wall and continues to the south and southeast. These results are consistent with previous observations,

3. **Collect and analyze groundwater samples from upgradient monitoring wells in the upper and lower aquifers to confirm background ground water quality.**

   There were no detections of benzene or chloroethane in samples from upgradient monitoring wells in both the upper and lower aquifer wells. A trace amount of tetrachloroethene was detected in upper aquifer well MW17, but this detection does not represent an increasing trend.

4. **Collect and analyze groundwater samples from upper and lower aquifer monitoring wells to provide indication of any changes in groundwater quality at downgradient boundaries.**

   Benzene and chloroethane were not detected in samples collected from any downgradient monitoring wells in the upper aquifer. A trace amount of trichloroethene was detected in the sample collected from well MW14.

   Benzene was detected in the sample collected from monitoring well MW53 screened in the lower aquifer. Benzene concentrations have gradually increased in samples collected from MW53 during the last several sampling events. A lower aquifer investigation is

currently being conducted to evaluate the presence of benzene in the lower aquifer near MW53. A trace amount of tetrachloroethene was detected in lower aquifer well MW30, but there is not enough data to determine if this represents an increasing trend.

5. **Collect and analyze groundwater samples from the interior of the areas of contaminated groundwater to document how concentrations change with time as the remediation progresses.**

   Sampling data from the upper aquifer indicate that concentrations within plume areas outside the barrier wall continue to decrease. The concentrations of benzene and chloroethane in samples from interior wells MW06, MW45, MW48, and MW49 have decreased over the last several years. These decreasing trends in the upper aquifer are likely the combined result of the barrier wall, the PGCS, and the ORC treatments in these areas. Concentrations of chloroethane in samples from MW19 have fluctuated near the maximum baseline concentration for this well.

   In samples collected from lower aquifer interior wells, concentrations of benzene and chloroethane continue to be variable. Concentrations of benzene and chloroethane in samples from MW09R have shown decreasing trends, while chloroethane concentrations in samples from adjacent nested well MW29 have continued to slowly increase. Benzene and chloroethane concentrations in samples collected from MW10C have decreased in recent samples, but they have remained elevated in samples from MW56. A purging system is operating at MW10C and MW56 to capture impacted groundwater and prevent its migration in the lower aquifer.

Corrective Actions

According to the LTGMP, MWH is to propose corrective actions for analytical results that exceed maximum baseline concentrations or that demonstrate increasing trends. The following lists the exceedances (underlined) and the corrective action taken:

- Baseline exceedance in the sample collected from well MW19: MWH will continue monitoring the bis(2-chloroethyl)ether concentration at well MW19 as described in the LTGMP.

- Baseline exceedance and increasing chloroethane concentrations in samples collected from well MW29: MWH will continue monitoring the chloroethane concentration at well MW29 as described in the LTGMP.

- Baseline exceedances or increasing concentrations in samples collected from MW10C, MW53, and MW56: MWH will continue monitoring the benzene concentrations in these wells as described in the LTGMP. MWH is currently conducting a lower aquifer

investigation to evaluate the distribution of benzene in the lower aquifer near downgradient well MW53.

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Tables

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Table 1
Groundwater Elevation Data - March 2005
American Chemical Service NPL Site
Griffith, Indiana

Monitoring Point Designation	Reference Points			March 21, 2005		Notes
	East	North	TOC	Level	Elevation	
Upper Aquifer Monitoring Wells						
MW06	5298	5520	655.28	20.50	634.78	
MW11	6377	7329	640.47	4.94	635.53	
MW12	6019	6352	642.74	6.67	636.07	
MW13	5050	7814	634.08	3.16	630.92	
MW14	4882	6995	638.56	7.78	630.78	
MW15	4721	5003	637.89	3.85	634.04	
MW17	5656	5677	647.10	11.71	635.39	
MW19	5231	4943	635.78	2.10	633.68	
MW37	5395	7976	636.78	4.66	632.12	
MW38	5903	8216	636.51	4.37	632.14	
MW39	6253	7947	637.77	4.29	633.48	
MW40	6349	6831	639.46	3.26	636.20	
MW41	6242	4517	632.74	3.29	629.45	
MW42	6264	3808	632.32	4.81	627.51	
MW43	5880	3719	633.56	5.79	627.77	
MW44	5390	4303	633.04	2.66	630.38	
MW45	5830	4388	635.35	4.64	630.71	
MW46	4526	7424	633.32	2.63	630.69	
MW47	5958	5084	640.54	5.33	635.21	
MW48	5669	7814	636.36	4.07	632.29	
MW49	5551	7650	637.00	4.67	632.33	
M4S	4953	6537	633.42	2.09	631.33	

Notes:

All depth measurements and elevations are in units of feet. TOC = top of casing

Elevation is in feet above mean sea level.

Table 1
Groundwater Elevation Data - March 2005
American Chemical Service NPL Site
Griffith, Indiana

Monitoring Point Designation	Reference Points			March 21, 2005		Notes
	East	North	TOC	Level	Elevation	
Staff Gauges & Piezometers						
P13	4878	5735	651.20	16.37	634.83	
P17	4584	6006	654.64	19.29	635.35	
P23	4689	7018	636.18	5.49	630.69	
P25	5131	7510	633.33	1.78	631.55	
P26	4764	7309	634.23	3.59	630.64	
P27	4904	7020	639.70	8.51	631.19	
P28	5883	7486	644.53	10.05	634.48	
P31	5480	7159	641.03	DRY	DRY	Dry at 9.90 feet below TOC
P32	5746	7026	642.32	9.92	632.40	
P36	5410	6851	645.89	14.43	631.46	
P40	5931	7241	638.77	3.73	635.04	
P41	5663	7377	637.23	3.35	633.88	
P49	5145	6949	638.98	7.96	631.02	
SG8R	5409	5252	634.70	0.04	634.66	
SG8R2	5409	5242	632.67	NM	NM	Not measured, see SG8R.
SG5	5464	7713	633.36	2.92	630.28	
SG13	4819	7209	631.53	5.03	630.56	TOC is the 6.0' mark on staff gauge
SG14	5109	6523	635.44	3.45	632.89	TOC is the 6.0' mark on staff gauge
PGCS Piezometer Sets						
P81	5577	7581	636.19	4.40	631.79	Damaged; hit by vehicle.
P82	5577	7572	635.77	3.96	631.81	
P83	5577	7561.6	635.95	3.69	632.26	
P84	5322	7603	634.35	3.25	631.10	
P85	5326	7594	634.08	2.69	631.39	
P86	5329	7585	634.41	3.10	631.31	
P87	5121	7466	633.88	3.46	630.42	
P88	5130	7460	633.90	2.96	630.94	
P89	5137	7454	634.02	3.06	630.96	
P90	4881	7152	634.45	3.80	630.65	
P91	4889	7145	634.59	3.95	630.64	
P92	4896	7138.1	633.87	3.27	630.60	

Notes:

All depth measurements and elevations are in units of feet. TOC = top of casing

Elevation is in feet above mean sea level.

Table 1
Groundwater Elevation Data - March 2005
American Chemical Service NPL Site
Griffith, Indiana

Monitoring Point Designation	Reference Points			March 21, 2005		Notes
	East	North	TOC	Level	Elevation	
BWES Water Level and Piezometer Pairs						
P93R	5188	7187	639.05	7.90	631.15	Replaced P93; installed in November 2004
P94R	5214	7174	640.99	10.48	630.51	Replaced P94; installed in November 2004
P95	5146	6532	638.58	5.85	632.73	
P96	5156	6537	641.26	17.80	623.46	trace amount of water
P105	5885	6678	638.86	2.50	636.36	
P106	5871	6685	638.10	7.13	630.97	
P107	5766	7339	637.42	3.02	634.40	
P108	5757	7324	638.13	5.96	632.17	
P109	5740	6387	644.30	8.17	636.13	Lock replaced
P110	5705	6382	647.68	19.73	627.95	
P111	5551	5950	650.03	13.39	636.64	Lock replaced
P112	5525	5960	653.36	27.34	626.02	
P113	5309	5693	657.53	30.20	627.33	
ORCPZ102	5331	5612	652.47	17.55	634.92	
P114	5035	5729	653.69	25.65	628.04	
P115	4970	5708	652.50	17.77	634.73	
P116	5031	6087	646.26	18.76	627.50	
P117	5014	6087	643.93	9.88	634.05	Missing Well Plug replaced
P118	5402	6539	645.52	18.85	626.67	

Notes:

All depth measurements and elevations are in units of feet.
Elevation is in feet above mean sea level.

TOC = top of casing
CNM = could not measure (reason given under "Notes" column)

Table 1
Groundwater Elevation Data - March 2005
American Chemical Service NPL Site
Griffith, Indiana

Monitoring Point Designation	Reference Points			March 21, 2005		Notes
	East	North	TOC	Level	Elevation	
Lower Aquifer Wells						
MW07	6113	6732	641.46	17.48	623.98	
MW08	5934	7506	640.43	16.87	623.56	
MW09R	4893	6990	639.05	15.19	623.86	
MW10C	5229	7554	635.71	CNM	CNM	Could not measure due to pump in well
MW23	4717	7404	633.31	9.47	623.84	
MW24	4596	8033	635.22	11.79	623.43	
MW28	5657	5695.6	648.77	24.16	624.61	
MW50	5269	5383	649.43	24.81	624.62	
MW51	5198	7767	634.16	10.80	623.36	
MW52	4996	7814	632.74	9.22	623.52	
MW54R	5589.8	7592.2	637.51	13.83	623.68	
M4D	4949	6538	633.32	9.24	624.08	

Notes:

All depth measurements and elevations are in units of feet.
Elevation is in feet above mean sea level.

TOC = top of casing
CNM = could not measure (reason given under "Notes" column)

Table 2
Field Parameter Data - March 2005
American Chemical Service NPL Site
Griffith, Indiana

Well ID	pH (std. units)	Electrical Conductivity (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)
Upper Aquifer Monitoring Wells						
MW06	7.02	4.200	13.5	23	4.3	10
MW11	6.09	0.400	7.6	98	0.0	140
MW12	6.57	0.470	9.4	59	0.0	68
MW13	6.78	1.600	7.8	9	0.0	-17
MW14	5.91	0.220	9.2	71	4.2	124
MW15	7.15	3.000	8.6	1	0.0	-16
MW17	6.52	0.810	9.2	30	4.2	32
MW19	7.29	4.200	9.1	140	0.3	-62
MW37	6.06	0.270	6.8	16	0.0	30
MW39	7.09	1.600	6.6	130	0.5	37
MW42	6.55	1.200	8.0	38	0.7	112
MW43	6.75	1.200	8.5	63	0.0	66
MW44	7.47	0.900	7.6	20	0.0	59
MW45	7.06	1.500	7.0	34	0.0	36
MW48	6.70	1.200	7.3	64	0.0	-18
MW49	6.31	0.690	7.5	21	0.1	-16

Notes:

Values are those recorded upon stabilization during groundwater purging

mS/cm = milliSiemens per centimeter

°C = Degrees Centrigrade

NTU = nephelometric turbidity units

mg/L = milligrams per liter

mV = millivolts

Table 2
Field Parameter Data - March 2005
American Chemical Service NPL Site
Griffith, Indiana

Well ID	pH (std. units)	Electrical Conductivity (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)
Lower Aquifer Monitoring Wells						
MW08	7.72	0.480	10.7	16	0.0	-120
MW09R	7.78	0.950	11.5	33	0.6	-184
MW10C	7.27	1.100	12.3	0	0.0	-108
MW23	7.03	1.700	9.5	100	0.0	-44
MW28	7.34	0.920	11.6	18	0.1	-65
MW29	7.12	0.940	11.6	43	0.0	-63
MW30	7.38	1.100	10.2	10	0.0	-105
MW31	7.45	0.830	10.7	0	0.0	-81
MW32	7.32	0.910	10.3	13	0.0	75
MW33	6.94	1.900	9.9	30	0.0	-63
MW51	7.35	1.400	10.0	95	0.0	-101
MW52	7.18	1.400	10.5	38	0.0	-76
MW53	6.79	3.000	9.5	160	0.0	-71
MW54R	7.55	1.000	11.2	17	0.0	-135
MW55	7.43	1.300	11.1	0	0.0	-93
MW56	7.25	1.100	13.3	0	0.0	-112

Notes:

Values are those recorded upon stabilization during groundwater purging

mS/cm = milliSiemens per centimeter

°C = Degrees Centrigrade

NTU = nephelometric turbidity units

mg/L = milligrams per liter

mV = millivolts

Table 3
Summary of Groundwater Sampling Activities - March 2005
American Chemical Service, Inc. NPL Site
Griffith, Indiana

Monitoring Well ID	Location with Respect to Area of Groundwater Contamination	Date Sampled	Indicator VOCs	Indicator SVOC	Indicator Metal	Quality Control Sample ID
Upper Aquifer Monitoring Wells						
MW06	Interior	3/28/2005	X	X	X	DUP03, MS/MSD
MW11	Upgradient	3/21/2005	X			
MW12	Upgradient	3/21/2005	X			
MW13	Downgradient[1]	3/24/2005	X			MS/MSD
MW14	Downgradient	3/28/2005	X			
MW15	Downgradient	3/28/2005	X		X	
MW17	Upgradient	3/23/2005	X			
MW19	Interior	3/28/2005	X	X		
MW37	Downgradient	3/24/2005	X			
MW39	Transgradient	3/22/2005	X			
MW42	Downgradient	3/22/2005	X			
MW43	Downgradient	3/22/2005	X		X	
MW44	Downgradient	3/22/2005	X			
MW45	Interior	3/22/2005	X			DUP01
MW48	Interior	3/29/2005	X			DUP04
MW49	Interior	3/29/2005	X			

Notes:

[1] - MW13 was originally an interior well.

X - Indicates sample was analyzed for selected parameter.

Indicator Volatile Organic Compounds (VOCs) - Includes the parameters 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, benzene, chloroethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, trans-1,2-dichloroethene, and vinyl chloride.

Indicator Semi-Volatile Organic Compound (SVOC) - Includes the parameter bis(2-chloroethyl)ether.

Indicator Metal - Includes the parameter arsenic.

DUP - Duplicate sample

MS/MSD - Matrix spike/matrix spike duplicate

Table 3
Summary of Groundwater Sampling Activities - March 2005
American Chemical Service, Inc. NPL Site
Griffith, Indiana

Monitoring Well ID	Location with Respect to Area of Groundwater Contamination	Date Sampled	Indicator VOCs	Indicator SVOC	Indicator Metal	Quality Control Sample ID
Lower Aquifer Monitoring Wells						
MW08	Downgradient	3/23/2005	X			
MW09R	Interior	3/28/2005	X	X		
MW10C	Interior	3/29/2005	X			
MW23	Downgradient	3/23/2005	X			
MW28	Upgradient	3/23/2005	X			
MW29	Interior	3/28/2005	X			
MW30	Downgradient	3/25/2005	X			
MW31	Downgradient	3/23/2005	X			
MW32	Downgradient	3/23/2005	X			
MW33	Downgradient	3/25/2005	X			
MW51	Downgradient	3/25/2005	X			
MW52	Downgradient	3/24/2005	X			
MW53	Downgradient	3/24/2005	X			DUP02
MW54R	Downgradient	3/23/2005	X			
MW55	Downgradient	3/24/2005	X			
MW56	Interior	3/24/2005	X			

Notes:

X - Indicates sample was analyzed for selected parameter.

Indicator Volatile Organic Compounds (VOCs) - Includes the parameters 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, benzene, chloroethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, trans-1,2-dichloroethene, and vinyl chloride.

Indicator Semi-Volatile Organic Compound (SVOC) - Includes the parameter bis(2-chloroethyl)ether.

DUP - Duplicate sample

Table 4
Summary of Detections in Samples from Upper Aquifer Monitoring Wells - March 2005
American Chemical Service NPL Site
Griffith, Indiana

	MW06			MW11			MW12			MW13			MW14			MW15		
	Interior			Upgradient			Upgradient			Downgradient			Downgradient			Downgradient		
Parameter (ug/l)	Mar-05		*BV*	Mar-05		*BV*	Mar-05		*BV*	Mar-05		*BV*	Mar-05		*BV*	Mar-05		*BV*
Volatile Organic Compounds																		
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Benzene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Chloroethane	**3**	J/	*720*	5	U/		5	U/		5	U/		5	U/		5	U/	
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Tetrachloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/		5	U/		**1.2**	J/	*100*	5	U/	
Vinyl Chloride	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Semi-volatile Organic Compounds																		
Bis(2-chloroethyl)ether	10	U/	*56*	NS			NS			NS			NS			NS		
Inorganics																		
Arsenic	10	U/	*72*	NS			NS			NS			NS			**13.2**		*59*

Notes:

ug/l = micrograms per liter.
BV = Baseline Value (only provided for detected compounds).
X/ = Data qualifier added by laboratory.
/X = Data qualifier added by data validator.
U = Compound was analyzed for but not detected.
J = Estimated value; concentration is below reporting limit.
NA - Not available

D = Results based on diluted sample.
NS = Not sampled for this analyte.
Bold result indicates the compound was detected.
Bold and Boxed results indicates an exceedance of the compound's baseline value.

Table 4
Summary of Detections in Samples from Upper Aquifer Monitoring Wells - March 2005
American Chemical Service NPL Site
Griffith, Indiana

	MW17			MW19			MW37			MW39			MW42			MW43		
	Upgradient			Interior			Downgradient			Transgradient			Downgradient			Downgradient		
Parameter (ug/l)	Mar-05		*BV*	Mar-05		*BV*	Mar-05		*BV*	Mar-05		*BV*	Mar-05		*BV*	Mar-05		*BV*
Volatile Organic Compounds																		
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Benzene	5	U/		**4.8**	J/	*10*	5	U/		5	U/		5	U/		5	U/	
Chloroethane	5	U/		**15**		*20*	5	U/		5	U/		5	U/		5	U/	
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Tetrachloroethene	**1.1**	J/	*10*	5	U/		5	U/		5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		**1.5**	J/	*NA*	5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Vinyl Chloride	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Semi-volatile Organic Compounds																		
Bis(2-chloroethyl)ether	NS			**19**		*12*	NS			NS			NS			NS		
Inorganics																		
Arsenic	NS			NS			NS			NS			NS			**11.1**		*81*

Notes:

ug/l = micrograms per liter.

BV = Baseline Value (only provided for detected compounds).

X/ = Data qualifier added by laboratory.

/X = Data qualifier added by data validator.

U = Compound was analyzed for but not detected.

J = Estimated value; concentration is below reporting limit.

NA - Not available

D = Results based on diluted sample.

NS = Not sampled for this analyte.

Bold result indicates the compound was detected.

Bold and Boxed results indicates an exceedance of the compound's baseline value.

Table 4
Summary of Detections in Samples from Upper Aquifer Monitoring Wells - March 2005
American Chemical Service NPL Site
Griffith, Indiana

	MW44			MW45			MW48			MW49		
	Downgradient			Interior			Interior			Interior		
Parameter (ug/l)	**Mar-05**		***BV***	**Mar-05**		***BV***	**Mar-05**		***BV***	**Mar-05**		***BV***
Volatile Organic Compounds												
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/	
Benzene	5	U/		**2.4**	J/	*1,045*	**290**	D/J	*9,500*	**89**	/J	*6,750*
Chloroethane	5	U/		5	U/		**19**	/J	*1,000*	**5.9**	/J	*715*
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/	
Tetrachloroethene	5	U/		5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/		5	U/	
Vinyl Chloride	5	U/		5	U/		5	U/		5	U/	
Semi-volatile Organic Compounds												
Bis(2-chloroethyl)ether	NS			NS			NS			NS		
Inorganics												
Arsenic	NS			NS			NS			NS		

Notes:

ug/l = micrograms per liter.
BV = Baseline Value (only provided for detected compounds).
X/ = Data qualifier added by laboratory.
/X = Data qualifier added by data validator.
U = Compound was analyzed for but not detected.
J = Estimated value; concentration is below reporting limit.
NA - Not available

D = Results based on diluted sample.
NS = Not sampled for this analyte.
Bold result indicates the compound was detected.
Bold and Boxed results indicates an exceedance of the compound's baseline value.

Table 5
Summary of Detections in Samples from Lower Aquifer Monitoring Wells- March 2005
American Chemical Service NPL Site
Griffith, Indiana

	MW08			MW09R			MW10C			MW23			MW28			MW29		
	Downgradient			Interior			Interior			Downgradient			Upgradient			Interior		
Parameter (ug/l)	**Mar-05**		***BV***	**Mar-05**		***BV***	**Mar-05**		***BV***	**Mar-05**		***BV***	**Mar-05**		***BV***	**Mar-05**		***BV***
Volatile Organic Compounds																		
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Benzene	5	U/		**6.8**		*310*	**260**	D/J	*150*	5	U/		5	U/		5	U/	
Chloroethane	5	U/		**3.8**	J/	*2,900*	**25**		420	5	U/		5	U/		**80**		*10*
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Tetrachloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Vinyl Chloride	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Semi-volatile Organic Compounds																		
Bis(2-chloroethyl)ether	NS			**8**	J/	*50*	NS			NS			NS			NS		
Inorganics																		
Arsenic	NS			NS			NS			NS			NS			NS		

Notes:

ug/l = micrograms per liter.

BV = Baseline Value (only provided for detected compounds).

NA - Not available

X/ = Data qualifier added by laboratory.

/X = Data qualifier added by data validator.

U = Compound was analyzed for but not detected.

J = Estimated value; concentration is below reporting limit.

D = Results based on diluted sample.

NS = Not sampled for this analyte.

Bold result indicates the compound was detected.

Bold and Boxed results indicates an exceedance of the compound's baseline value.

CAS/JEF
J:\209\0603 ACS\0304 GW Monitoring\March 200\Report\Mar05-T5LoAq results.xls
2090603.030401

Table 5
Summary of Detections in Samples from Lower Aquifer Monitoring Wells- March 2005
American Chemical Service NPL Site
Griffith, Indiana

Parameter (ug/l)	MW30 Downgradient Mar-05		*BV*	MW31 Downgradient Mar-05		*BV*	MW32 Downgradient Mar-05		*BV*	MW33 Downgradient Mar-05		*BV*	MW51 Downgradient Mar-05		*BV*	MW52 Downgradient Mar-05		*BV*
Volatile Organic Compounds																		
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Benzene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Chloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Tetrachloroethene	**2.4**	J/	*10*	5	U/		5	U/		5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Vinyl Chloride	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Semi-volatile Organic Compounds																		
Bis(2-chloroethyl)ether	NS			NS			NS			NS			NS			NS		
Inorganics																		
Arsenic	NS			NS			NS			NS			NS			NS		

Notes:

ug/l = micrograms per liter.

BV = Baseline Value (only provided for detected compounds).

NA - Not available

X/ = Data qualifier added by laboratory.

/X = Data qualifier added by data validator.

U = Compound was analyzed for but not detected.

J = Estimated value; concentration is below reporting limit.

D = Results based on diluted sample.

NS = Not sampled for this analyte.

Bold result indicates the compound was detected.

Bold and Boxed results indicates an exceedance of the compound's baseline value.

CAS/JEF
J:\209\0603 ACS\0304 GW Monitoring\March 200\Report\Mar05-T5LoAq results.xls
2090603.030401

Table 5
Summary of Detections in Samples from Lower Aquifer Monitoring Wells- March 2005
American Chemical Service NPL Site
Griffith, Indiana

	MW53			MW54R			MW55			MW56		
	Downgradient			Downgradient			Downgradient			Interior		
Parameter (ug/l)	**Mar-05**		***BV***	**Mar-05**		***BV***	**Mar-05**		***BV***	**Mar-05**		***BV***
Volatile Organic Compounds												
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/	
Benzene	**9.2**		*10*	5	U/		5	U/		**1,200**	D/J	*NA*
Chloroethane	5	U/		5	U/		5	U/		**6.4**		*NA*
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/	
Tetrachloroethene	5	U/		5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/		5	U/	
Vinyl Chloride	5	U/		5	U/		5	U/		5	U/	
Semi-volatile Organic Compounds												
Bis(2-chloroethyl)ether	NS			NS			NS			NS		
Inorganics												
Arsenic	NS			NS			NS			NS		

Notes:

ug/l = micrograms per liter.

BV = Baseline Value (only provided for detected compounds).

NA - Not available

X/ = Data qualifier added by laboratory.

/X = Data qualifier added by data validator.

U = Compound was analyzed for but not detected.

J = Estimated value; concentration is below reporting limit.

D = Results based on diluted sample.

NS = Not sampled for this analyte.

Bold result indicates the compound was detected.

Bold and Boxed results indicates an exceedance of the compound's baseline value.

CAS/JEF
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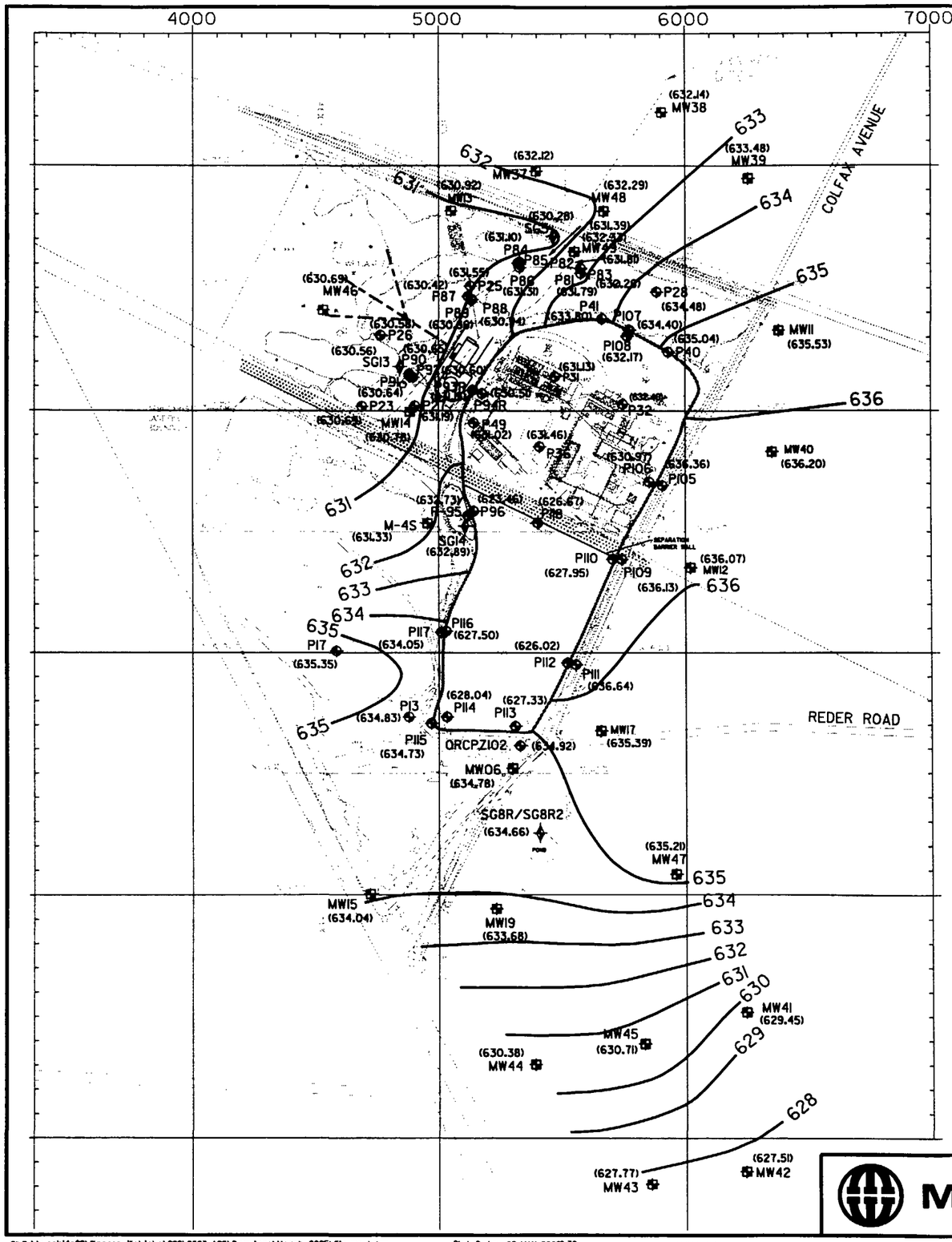
Figures



LEGEND

BARRIER WALL

PERIMETER GROUND WATER CONTAINMENT SYSTEM

UPPER AQUIFER WELL LOCATION AND DESIGNATION

P61 PIEZOMETER LOCATION AND DESIGNATION

STAFF GAGE LOCATION AND DESIGNATION

(632.42) GROUNDWATER ELEVATION

631 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE APPROXIMATE)

INDICATES DEPRESSION

(NM) NOT MEASURED

NOTE:

1. GROUNDWATER ELEVATIONS WERE MEASURED ON MARCH 21, 2005
2. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL.

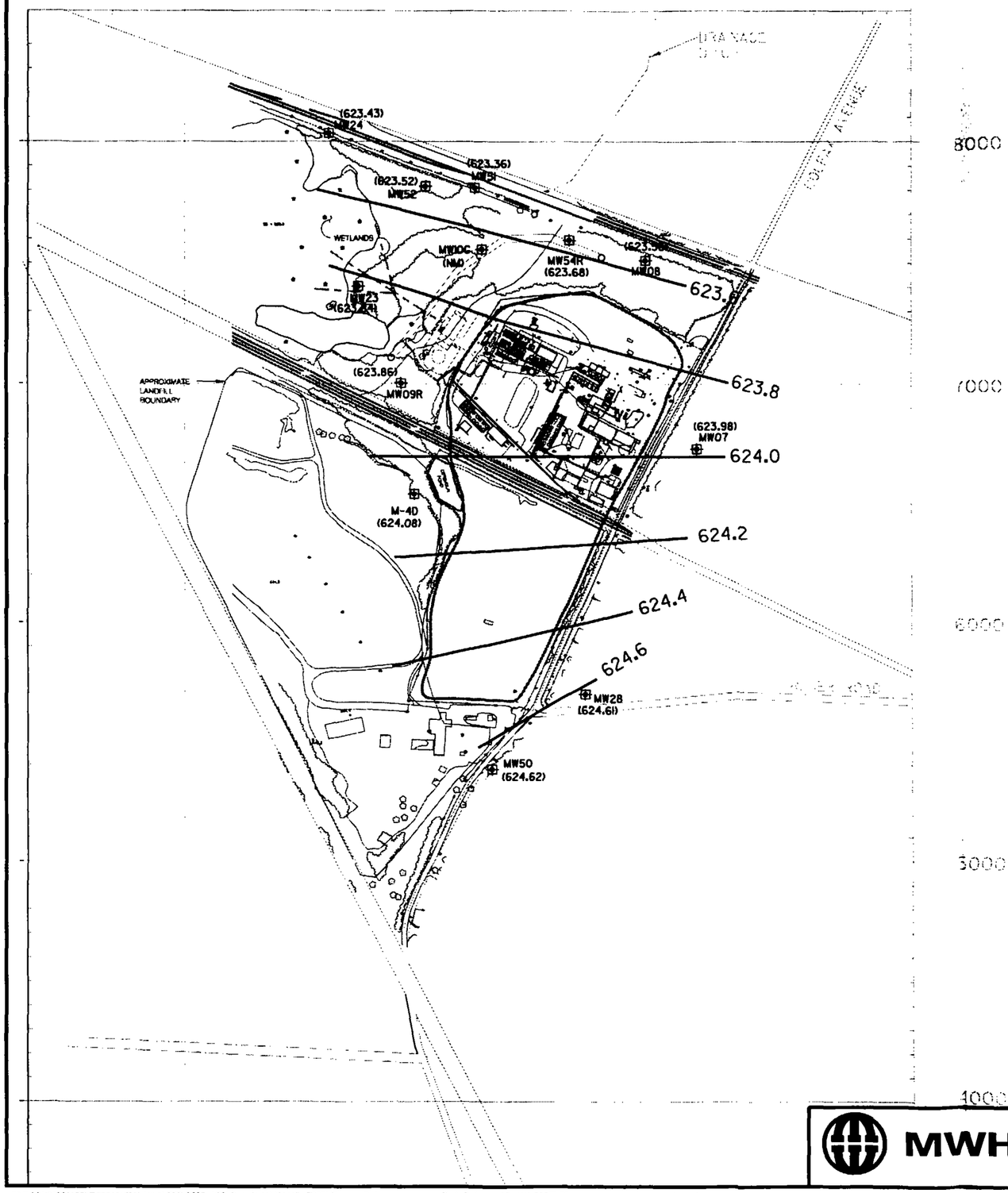
N

0 500 1000

SCALE IN FEET

MWH	SCALE AS SHOWN	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	UPPER AQUIFER WATER TABLE CONTOUR MAP MARCH 2005	FIGURE 1

FILE:\\uschi4s02\Warrenville\Jobs\209\0603 ACS\Drawings\March 2005\Figure 1.dgn Plot Date: 27-MAY-2005 9:32 CAS/ALC



LEGEND

———	BARRIER WALL
⊕ MW52	LOWER AQUIFER WELL LOCATION AND DESIGNATION
(622.60)	GROUNDWATER ELEVATION
— 623.0	GROUNDWATER ELEVATION CONTOUR (DASHED WHERE APPROXIMATE)
(NM)	NOT MEASURED

NOTES:

1. GROUNDWATER ELEVATIONS WERE MEASURED ON MARCH 21, 2005.
2. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL.

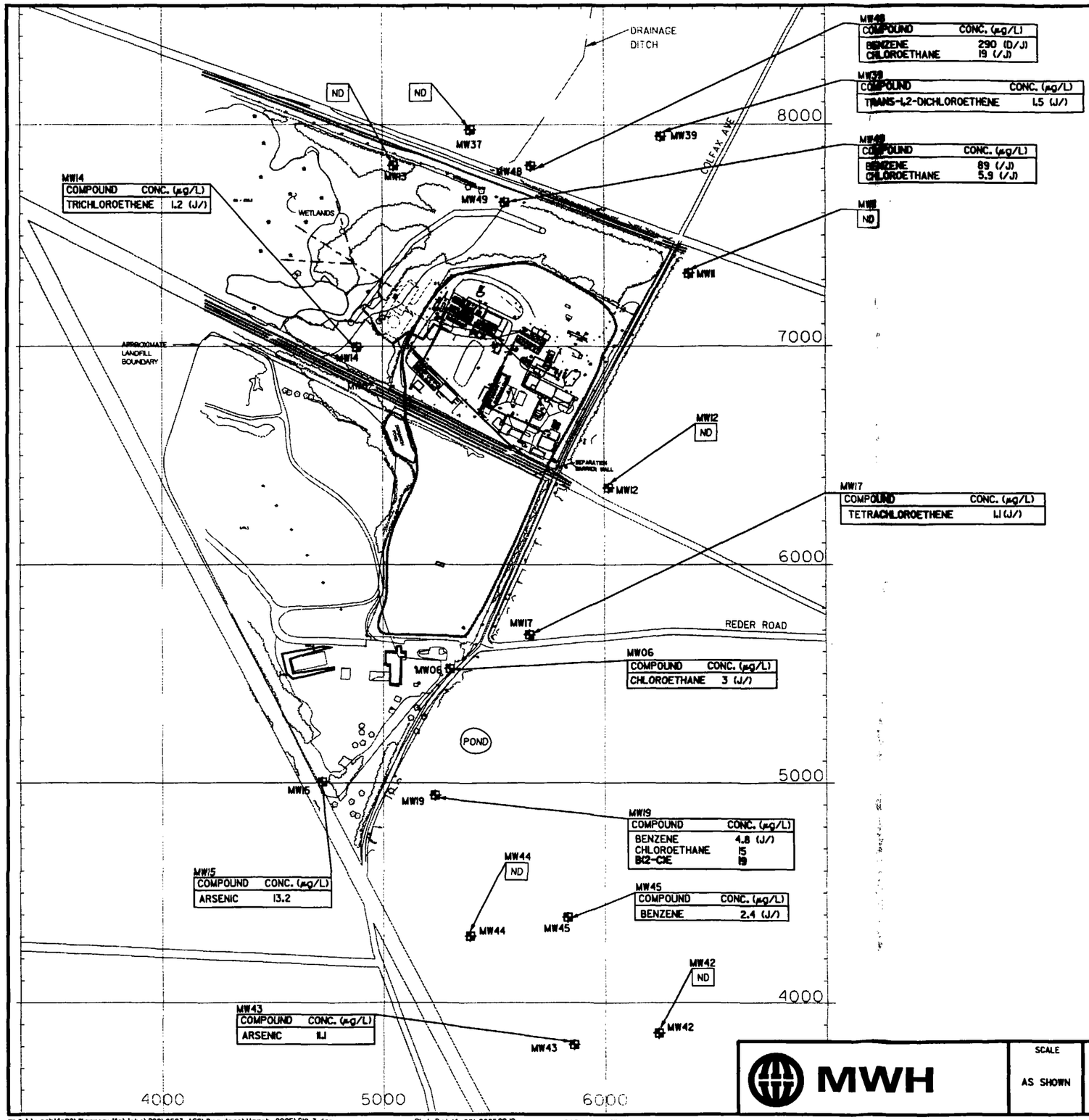
N

0 500 1000

SCALE IN FEET

MWH	SCALE	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	LOWER AQUIFER POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 2005	FIGURE
	AS SHOWN			2

FILE: \\uschi4s02\Warrenville\Jobs\209\0603 ACS\Drawings\March 2005\Figure 2.dgn Plot Date: 27-MAY-2005D:36 CAS/ALC



MW48
COMPOUND	CONC. (µg/L)
BENZENE	290 (D/J)
CHLOROETHANE	19 (/J)

MW39
COMPOUND	CONC. (µg/L)
TRANS-1,2-DICHLOROETHENE	1.5 (J/)

MW49
COMPOUND	CONC. (µg/L)
BENZENE	89 (/J)
CHLOROETHANE	5.9 (/J)

MW11
ND

LEGEND

MW11 — UPPER AQUIFER WELL LOCATION AND DESIGNATION

BARRIER WALL

PERIMETER GROUND WATER CONTAINMENT SYSTEM

µg/L — MICROGRAMS PER LITER

(J) — INDICATES AN ESTIMATED VALUE (LAB/VALIDATED)

(D) — INDICATES SAMPLE WAS DILUTED (LAB/VALIDATED)

ND — NO COMPOUNDS DETECTED

B(2-C)E — BIS(2-CHLOROETHYL)ETHER

NOTES:
1. CONCENTRATIONS IN BOLD EXCEEDED BASELINE VALUES.

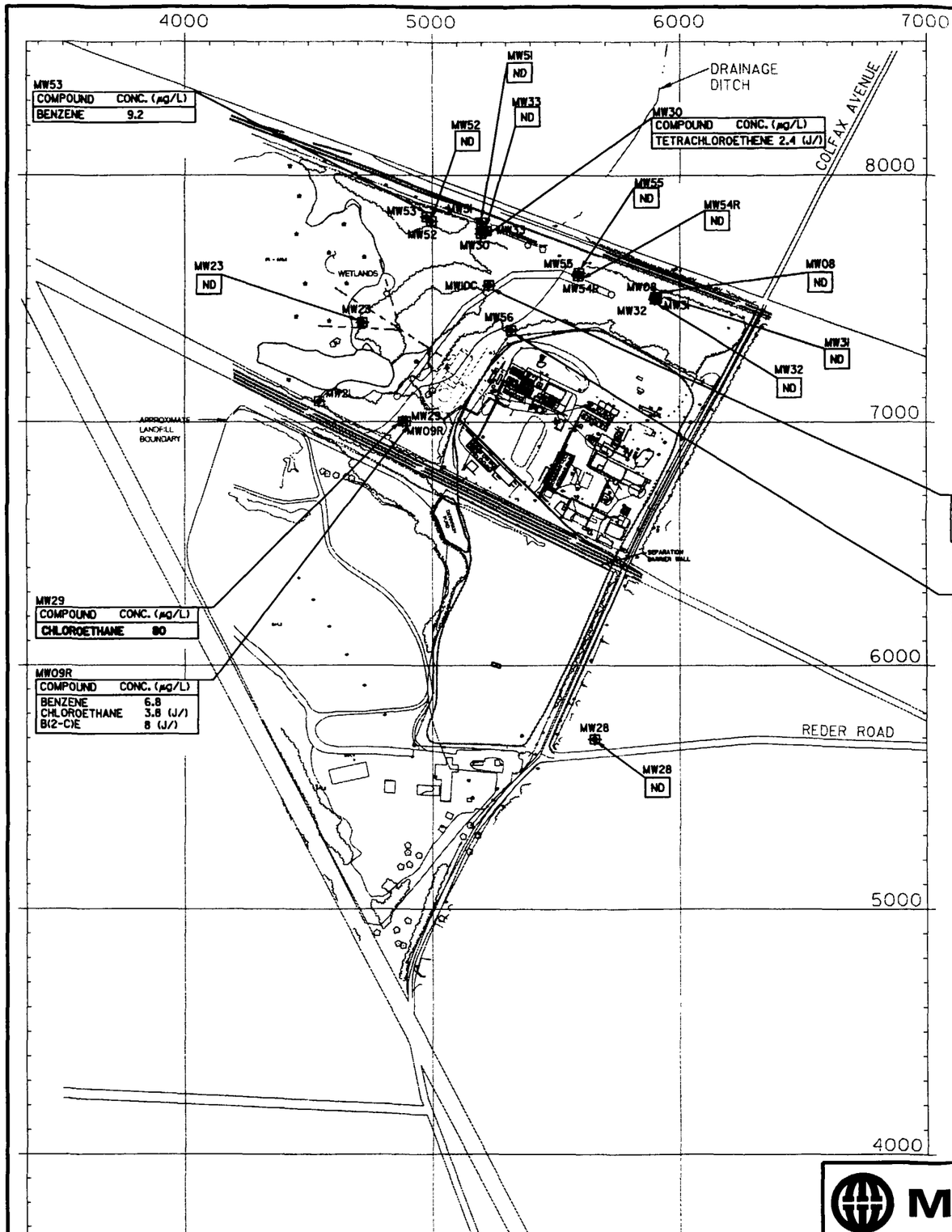
N

0 500 1000

SCALE IN FEET

MWH	SCALE	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	DETECTED COMPOUNDS IN SAMPLES FROM UPPER AQUIFER MONITORING WELLS MARCH 2005	FIGURE
	AS SHOWN			3

FILE:\\uschl4s02\Warrenville\Jobs\209\0603 ACS\Drawings\March 2005\FIG.3.dgn Plot Date 14-JUN-2005 09:12 CAS/ALC/JEF



LEGEND

- BARRIER WALL
- PERIMETER GROUND WATER CONTAINMENT SYSTEM
- MW53 — LOWER AQUIFER WELL LOCATION AND DESIGNATION
- µg/L — MICROGRAMS PER LITER
- (D) — INDICATES SAMPLE WAS DILUTED (LAB/VALIDATED)
- (J) — INDICATES AN ESTIMATED VALUE (LAB/VALIDATED)
- ND — NO COMPOUNDS DETECTED
- B(2-C)E — BIS(2-CHLOROETHYL)ETHER

NOTE: CONCENTRATIONS IN BOLD EXCEEDED BASELINE VALUES

N

0 500 1000

SCALE IN FEET

MWH	SCALE	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	DETECTED COMPOUNDS IN SAMPLES FROM LOWER AQUIFER MONITORING WELLS MARCH 2005	FIGURE
	AS SHOWN			4

FILE: \\uschi4s02\Warrenville\jobs\209\0603 ACS\Drawings\March 2005\FIG.4.dgn Plot Dated 4-JUN-2005 12 CAS/ALC/JEF

Appendix A

MWH

Appendix A
Comparison of March 2005 Results to Maximum Baseline Concentrations

VOC Results

SVOC Results

Inorganic Results

Monitoring Well Volatile Organic Results - March 2005
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	March 2005			
				Result	LQ	DQ	Detect Limit
MW-06	1,1-Dichloroethane	ug/l	21		U		5
MW-06	1,1-Dichloroethene	ug/l	50		U		5
MW-06	1,2-Dichloroethane	ug/l	50		U		5
MW-06	Benzene	ug/l	320		U		5
MW-06	Chloroethane	ug/l	720	3	J		5
MW-06	cis-1,2-Dichloroethene	ug/l			U		5
MW-06	Tetrachloroethene	ug/l	50		U		5
MW-06	trans-1,2-Dichloroethene	ug/l			U		5
MW-06	Trichloroethene	ug/l	50		U		5
MW-06	Vinyl chloride	ug/l	50		U		5
MW-08	1,1-Dichloroethane	ug/l	10		U		5
MW-08	1,1-Dichloroethene	ug/l	10		U		5
MW-08	1,2-Dichloroethane	ug/l	10		U		5
MW-08	Benzene	ug/l	10		U		5
MW-08	Chloroethane	ug/l	10		U		5
MW-08	cis-1,2-Dichloroethene	ug/l			U		5
MW-08	Tetrachloroethene	ug/l	10		U		5
MW-08	trans-1,2-Dichloroethene	ug/l			U		5
MW-08	Trichloroethene	ug/l	10		U		5
MW-08	Vinyl chloride	ug/l	10		U		5
MW-09R	1,1-Dichloroethane	ug/l	200		U		5
MW-09R	1,1-Dichloroethene	ug/l	200		U		5
MW-09R	1,2-Dichloroethane	ug/l	200		U		5
MW-09R	Benzene	ug/l	310	6.8			5
MW-09R	Chloroethane	ug/l	2,900	3.8	J		5
MW-09R	cis-1,2-Dichloroethene	ug/l			U		5
MW-09R	Tetrachloroethene	ug/l	200		U		5
MW-09R	trans-1,2-Dichloroethene	ug/l			U		5
MW-09R	Trichloroethene	ug/l	200		U		5
MW-09R	Vinyl chloride	ug/l	200		U		5
MW-10C	1,1-Dichloroethane	ug/l	150		U		5
MW-10C	1,1-Dichloroethene	ug/l	150		U		5
MW-10C	1,2-Dichloroethane	ug/l	150		U		5
MW-10C	Benzene	ug/l	150	[redacted]	D	J	13
MW-10C	Chloroethane	ug/l	420	25			5
MW-10C	cis-1,2-Dichloroethene	ug/l			U		5
MW-10C	Tetrachloroethene	ug/l	150		U		5
MW-10C	trans-1,2-Dichloroethene	ug/l			U		5
MW-10C	Trichloroethene	ug/l	150		U		5
MW-10C	Vinyl chloride	ug/l	129		U		5
MW-11	1,1-Dichloroethane	ug/l	10		U		5
MW-11	1,1-Dichloroethene	ug/l	10		U		5
MW-11	1,2-Dichloroethane	ug/l	10		U		5
MW-11	Benzene	ug/l	10		U		5
MW-11	Chloroethane	ug/l	10		U		5
MW-11	cis-1,2-Dichloroethene	ug/l			U		5

[redacted] = Exceedance of Highest Baseline Detection

NA = Not Applicable

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendices C and D.

CAS/ALC
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Monitoring Well Volatile Organic Results - March 2005
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	March 2005			
				Result	LQ	DQ	Detect Limit
MW-11	Tetrachloroethene	ug/l	10		U		5
MW-11	trans-1,2-Dichloroethene	ug/l			U		5
MW-11	Trichloroethene	ug/l	10		U		5
MW-11	Vinyl chloride	ug/l	10		U		5
MW-12	1,1-Dichloroethane	ug/l	10		U		5
MW-12	1,1-Dichloroethene	ug/l	10		U		5
MW-12	1,2-Dichloroethane	ug/l	10		U		5
MW-12	Benzene	ug/l	10		U		5
MW-12	Chloroethane	ug/l	10		U		5
MW-12	cis-1,2-Dichloroethene	ug/l			U		5
MW-12	Tetrachloroethene	ug/l	10		U		5
MW-12	trans-1,2-Dichloroethene	ug/l			U		5
MW-12	Trichloroethene	ug/l	10		U		5
MW-12	Vinyl chloride	ug/l	10		U		5
MW-13	1,1-Dichloroethane	ug/l	50		U		5
MW-13	1,1-Dichloroethene	ug/l	50		U		5
MW-13	1,2-Dichloroethane	ug/l	50		U		5
MW-13	Benzene	ug/l	610		U		5
MW-13	Chloroethane	ug/l	570		U		5
MW-13	cis-1,2-Dichloroethene	ug/l			U		5
MW-13	Tetrachloroethene	ug/l	50		U		5
MW-13	trans-1,2-Dichloroethene	ug/l			U		5
MW-13	Trichloroethene	ug/l	50		U		5
MW-13	Vinyl chloride	ug/l	50		U		5
MW-14	1,1-Dichloroethane	ug/l	100		U		5
MW-14	1,1-Dichloroethene	ug/l	100		U		5
MW-14	1,2-Dichloroethane	ug/l	100		U		5
MW-14	Benzene	ug/l	41		U		5
MW-14	Chloroethane	ug/l	1,000		U		5
MW-14	cis-1,2-Dichloroethene	ug/l			U		5
MW-14	Tetrachloroethene	ug/l	100		U		5
MW-14	trans-1,2-Dichloroethene	ug/l			U		5
MW-14	Trichloroethene	ug/l	100	1.2	J		5
MW-14	Vinyl chloride	ug/l	100		U		5
MW-15	1,1-Dichloroethane	ug/l	10		U		5
MW-15	1,1-Dichloroethene	ug/l	10		U		5
MW-15	1,2-Dichloroethane	ug/l	10		U		5
MW-15	Benzene	ug/l	10		U		5
MW-15	Chloroethane	ug/l	10		U		5
MW-15	cis-1,2-Dichloroethene	ug/l			U		5
MW-15	Tetrachloroethene	ug/l	10		U		5
MW-15	trans-1,2-Dichloroethene	ug/l			U		5
MW-15	Trichloroethene	ug/l	10		U		5
MW-15	Vinyl chloride	ug/l	10		U		5
MW-17	1,1-Dichloroethane	ug/l			U		5
MW-17	1,1-Dichloroethene	ug/l			U		5

= Exceedance of Highest Baseline Detection

NA = Not Applicable

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendices C and D.

CAS/ALC
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Monitoring Well Volatile Organic Results - March 2005
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	March 2005			
				Result	LQ	DQ	Detect Limit
MW-17	1,2-Dichloroethane	ug/l			U		5
MW-17	Benzene	ug/l			U		5
MW-17	Chloroethane	ug/l			U		5
MW-17	cis-1,2-Dichloroethene	ug/l			U		5
MW-17	Tetrachloroethene	ug/l		1.1	J		5
MW-17	trans-1,2-Dichloroethene	ug/l			U		5
MW-17	Trichloroethene	ug/l			U		5
MW-17	Vinyl chloride	ug/l			U		5
MW-19	1,1-Dichloroethane	ug/l	10		U		5
MW-19	1,1-Dichloroethene	ug/l	10		U		5
MW-19	1,2-Dichloroethane	ug/l	10		U		5
MW-19	Benzene	ug/l	10	4.8	J		5
MW-19	Chloroethane	ug/l	20	15			5
MW-19	cis-1,2-Dichloroethene	ug/l			U		5
MW-19	Tetrachloroethene	ug/l	10		U		5
MW-19	trans-1,2-Dichloroethene	ug/l			U		5
MW-19	Trichloroethene	ug/l	10		U		5
MW-19	Vinyl chloride	ug/l	10		U		5
MW-23	1,1-Dichloroethane	ug/l	10		U		5
MW-23	1,1-Dichloroethene	ug/l	10		U		5
MW-23	1,2-Dichloroethane	ug/l	10		U		5
MW-23	Benzene	ug/l	10		U		5
MW-23	Chloroethane	ug/l	10		U		5
MW-23	cis-1,2-Dichloroethene	ug/l			U		5
MW-23	Tetrachloroethene	ug/l	10		U		5
MW-23	trans-1,2-Dichloroethene	ug/l			U		5
MW-23	Trichloroethene	ug/l	10		U		5
MW-23	Vinyl chloride	ug/l	10		U		5
MW-28	1,1-Dichloroethane	ug/l	10		U		5
MW-28	1,1-Dichloroethene	ug/l	10		U		5
MW-28	1,2-Dichloroethane	ug/l	10		U		5
MW-28	Benzene	ug/l	10		U		5
MW-28	Chloroethane	ug/l	10		U		5
MW-28	cis-1,2-Dichloroethene	ug/l			U		5
MW-28	Tetrachloroethene	ug/l	10		U		5
MW-28	trans-1,2-Dichloroethene	ug/l			U		5
MW-28	Trichloroethene	ug/l	10		U		5
MW-28	Vinyl chloride	ug/l	10		U		5
MW-29	1,1-Dichloroethane	ug/l	10		U		5
MW-29	1,1-Dichloroethene	ug/l	10		U		5
MW-29	1,2-Dichloroethane	ug/l	10		U		5
MW-29	Benzene	ug/l	10		U		5
MW-29	Chloroethane	ug/l	10	[redacted]			5
MW-29	cis-1,2-Dichloroethene	ug/l			U		5
MW-29	Tetrachloroethene	ug/l	10		U		5
MW-29	trans-1,2-Dichloroethene	ug/l			U		5

[redacted] = Exceedance of Highest Baseline Detection

NA = Not Applicable

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendices C and D.

CAS/ALC
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2090603.030401

Monitoring Well Volatile Organic Results - March 2005
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	March 2005			
				Result	LQ	DQ	Detect Limit
MW-29	Trichloroethene	ug/l	10		U		5
MW-29	Vinyl chloride	ug/l	10		U		5
MW-30	1,1-Dichloroethane	ug/l	10		U		5
MW-30	1,1-Dichloroethene	ug/l	10		U		5
MW-30	1,2-Dichloroethane	ug/l	10		U		5
MW-30	Benzene	ug/l	10		U		5
MW-30	Chloroethane	ug/l	10		U		5
MW-30	cis-1,2-Dichloroethene	ug/l			U		5
MW-30	Tetrachloroethene	ug/l	10	2.4	J		5
MW-30	trans-1,2-Dichloroethene	ug/l			U		5
MW-30	Trichloroethene	ug/l	10		U		5
MW-30	Vinyl chloride	ug/l	10		U		5
MW-31	1,1-Dichloroethane	ug/l	10		U		5
MW-31	1,1-Dichloroethene	ug/l	10		U		5
MW-31	1,2-Dichloroethane	ug/l	10		U		5
MW-31	Benzene	ug/l	10		U		5
MW-31	Chloroethane	ug/l	10		U		5
MW-31	cis-1,2-Dichloroethene	ug/l			U		5
MW-31	Tetrachloroethene	ug/l	10		U		5
MW-31	trans-1,2-Dichloroethene	ug/l			U		5
MW-31	Trichloroethene	ug/l	10		U		5
MW-31	Vinyl chloride	ug/l	10		U		5
MW-32	1,1-Dichloroethane	ug/l	10		U		5
MW-32	1,1-Dichloroethene	ug/l	10		U		5
MW-32	1,2-Dichloroethane	ug/l	10		U		5
MW-32	Benzene	ug/l	10		U		5
MW-32	Chloroethane	ug/l	10		U		5
MW-32	cis-1,2-Dichloroethene	ug/l			U		5
MW-32	Tetrachloroethene	ug/l	10		U		5
MW-32	trans-1,2-Dichloroethene	ug/l			U		5
MW-32	Trichloroethene	ug/l	10		U		5
MW-32	Vinyl chloride	ug/l	10		U		5
MW-33	1,1-Dichloroethane	ug/l	10		U		5
MW-33	1,1-Dichloroethene	ug/l	10		U		5
MW-33	1,2-Dichloroethane	ug/l	10		U		5
MW-33	Benzene	ug/l	10		U		5
MW-33	Chloroethane	ug/l	10		U		5
MW-33	cis-1,2-Dichloroethene	ug/l			U		5
MW-33	Tetrachloroethene	ug/l	10		U		5
MW-33	trans-1,2-Dichloroethene	ug/l			U		5
MW-33	Trichloroethene	ug/l	10		U		5
MW-33	Vinyl chloride	ug/l	10		U		5
MW-37	1,1-Dichloroethane	ug/l	10		U		5
MW-37	1,1-Dichloroethene	ug/l	10		U		5
MW-37	1,2-Dichloroethane	ug/l	10		U		5
MW-37	Benzene	ug/l	10		U		5

= Exceedance of Highest Baseline Detection

NA = Not Applicable

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendices C and D.

CAS/ALC
J:\209\0603 ACS\Database\GW Monitoring\Access2000versions\ACS GW Database_2000.mdb [rptNewResults10VOCs]
2090603.030401

Monitoring Well Volatile Organic Results - March 2005
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	March 2005			
				Result	LQ	DQ	Detect Limit
MW-37	Chloroethane	ug/l	10		U		5
MW-37	cis-1,2-Dichloroethene	ug/l			U		5
MW-37	Tetrachloroethene	ug/l	10		U		5
MW-37	trans-1,2-Dichloroethene	ug/l			U		5
MW-37	Trichloroethene	ug/l	10		U		5
MW-37	Vinyl chloride	ug/l	10		U		5
MW-39	1,1-Dichloroethane	ug/l	10		U		5
MW-39	1,1-Dichloroethene	ug/l	10		U		5
MW-39	1,2-Dichloroethane	ug/l	10		U		5
MW-39	Benzene	ug/l	12		U		5
MW-39	Chloroethane	ug/l	10		U		5
MW-39	cis-1,2-Dichloroethene	ug/l			U		5
MW-39	Tetrachloroethene	ug/l	10		U		5
MW-39	trans-1,2-Dichloroethene	ug/l		1.5	J		5
MW-39	Trichloroethene	ug/l	10		U		5
MW-39	Vinyl chloride	ug/l	10		U		5
MW-42	1,1-Dichloroethane	ug/l	10		U		5
MW-42	1,1-Dichloroethene	ug/l	10		U		5
MW-42	1,2-Dichloroethane	ug/l	10		U		5
MW-42	Benzene	ug/l	10		U		5
MW-42	Chloroethane	ug/l	10		U		5
MW-42	cis-1,2-Dichloroethene	ug/l			U		5
MW-42	Tetrachloroethene	ug/l	10		U		5
MW-42	trans-1,2-Dichloroethene	ug/l			U		5
MW-42	Trichloroethene	ug/l	10		U		5
MW-42	Vinyl chloride	ug/l	10		U		5
MW-43	1,1-Dichloroethane	ug/l	10		U		5
MW-43	1,1-Dichloroethene	ug/l	10		U		5
MW-43	1,2-Dichloroethane	ug/l	10		U		5
MW-43	Benzene	ug/l	10		U		5
MW-43	Chloroethane	ug/l	10		U		5
MW-43	cis-1,2-Dichloroethene	ug/l			U		5
MW-43	Tetrachloroethene	ug/l	10		U		5
MW-43	trans-1,2-Dichloroethene	ug/l			U		5
MW-43	Trichloroethene	ug/l	10		U		5
MW-43	Vinyl chloride	ug/l	10		U		5
MW-44	1,1-Dichloroethane	ug/l	10		U		5
MW-44	1,1-Dichloroethene	ug/l	10		U		5
MW-44	1,2-Dichloroethane	ug/l	10		U		5
MW-44	Benzene	ug/l	10		U		5
MW-44	Chloroethane	ug/l	10		U		5
MW-44	cis-1,2-Dichloroethene	ug/l			U		5
MW-44	Tetrachloroethene	ug/l	10		U		5
MW-44	trans-1,2-Dichloroethene	ug/l			U		5
MW-44	Trichloroethene	ug/l	10		U		5
MW-44	Vinyl chloride	ug/l	10		U		5

= Exceedance of Highest Baseline Detection

NA = Not Applicable

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendices C and D.

CAS/ALC
J:\209\0603 ACS\Database\GW Monitoring\Access2000versions\ACS GW Database_2000.mdb [rptNewResults10VOCs]
2090603.030401

Monitoring Well Volatile Organic Results - March 2005
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	March 2005			
				Result	LQ	DQ	Detect Limit
MW-45	1,1-Dichloroethane	ug/l	80		U		5
MW-45	1,1-Dichloroethene	ug/l	80		U		5
MW-45	1,2-Dichloroethane	ug/l	80		U		5
MW-45	Benzene	ug/l	1,045	2.4	J		5
MW-45	Chloroethane	ug/l	215		U		5
MW-45	cis-1,2-Dichloroethene	ug/l			U		5
MW-45	Tetrachloroethene	ug/l	80		U		5
MW-45	trans-1,2-Dichloroethene	ug/l			U		5
MW-45	Trichloroethene	ug/l	80		U		5
MW-45	Vinyl chloride	ug/l	80		U		5
MW-48	1,1-Dichloroethane	ug/l	500		U		5
MW-48	1,1-Dichloroethene	ug/l	500		U		5
MW-48	1,2-Dichloroethane	ug/l	500		U		5
MW-48	Benzene	ug/l	9,500	290	D	J	13
MW-48	Chloroethane	ug/l	1,000	19		J	5
MW-48	cis-1,2-Dichloroethene	ug/l			U		5
MW-48	Tetrachloroethene	ug/l	500		U		5
MW-48	trans-1,2-Dichloroethene	ug/l			U		5
MW-48	Trichloroethene	ug/l	500		U		5
MW-48	Vinyl chloride	ug/l	500		U		5
MW-49	1,1-Dichloroethane	ug/l	500		U		5
MW-49	1,1-Dichloroethene	ug/l	500		U		5
MW-49	1,2-Dichloroethane	ug/l	500		U		5
MW-49	Benzene	ug/l	6,750	89		J	5
MW-49	Chloroethane	ug/l	715	5.9		J	5
MW-49	cis-1,2-Dichloroethene	ug/l			U		5
MW-49	Tetrachloroethene	ug/l	500		U		5
MW-49	trans-1,2-Dichloroethene	ug/l			U		5
MW-49	Trichloroethene	ug/l	500		U		5
MW-49	Vinyl chloride	ug/l	500		U		5
MW-51	1,1-Dichloroethane	ug/l	100		U		5
MW-51	1,1-Dichloroethene	ug/l	100		U		5
MW-51	1,2-Dichloroethane	ug/l	100		U		5
MW-51	Benzene	ug/l	100		U		5
MW-51	Chloroethane	ug/l	100		U		5
MW-51	cis-1,2-Dichloroethene	ug/l			U		5
MW-51	Tetrachloroethene	ug/l	100		U		5
MW-51	trans-1,2-Dichloroethene	ug/l			U		5
MW-51	Trichloroethene	ug/l	100		U		5
MW-51	Vinyl chloride	ug/l	100		U		5
MW-52	1,1-Dichloroethane	ug/l	100		U		5
MW-52	1,1-Dichloroethene	ug/l	100		U		5
MW-52	1,2-Dichloroethane	ug/l	100		U		5
MW-52	Benzene	ug/l	100		U		5
MW-52	Chloroethane	ug/l	100		U		5
MW-52	cis-1,2-Dichloroethene	ug/l			U		5

= Exceedance of Highest Baseline Detection

NA = Not Applicable

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendices C and D.

CAS/ALC
J:\209\0603 ACS\Database\GW Monitoring\Access2000versions\ACS GW Database_2000.mdb [rptNewResults10VOCs]
2090603.030401

Monitoring Well Volatile Organic Results - March 2005
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	March 2005			
				Result	LQ	DQ	Detect Limit
MW-52	Tetrachloroethene	ug/l	100		U		5
MW-52	trans-1,2-Dichloroethene	ug/l			U		5
MW-52	Trichloroethene	ug/l	100		U		5
MW-52	Vinyl chloride	ug/l	100		U		5
MW-53	1,1-Dichloroethane	ug/l	10		U		5
MW-53	1,1-Dichloroethene	ug/l	10		U		5
MW-53	1,2-Dichloroethane	ug/l	10		U		5
MW-53	Benzene	ug/l	10	9.2			5
MW-53	Chloroethane	ug/l	10		U		5
MW-53	cis-1,2-Dichloroethene	ug/l			U		5
MW-53	Tetrachloroethene	ug/l	10		U		5
MW-53	trans-1,2-Dichloroethene	ug/l			U		5
MW-53	Trichloroethene	ug/l	10		U		5
MW-53	Vinyl chloride	ug/l	10		U		5
MW-54R	1,1-Dichloroethane	ug/l	10		U		5
MW-54R	1,1-Dichloroethene	ug/l	10		U		5
MW-54R	1,2-Dichloroethane	ug/l	10		U		5
MW-54R	Benzene	ug/l	10		U		5
MW-54R	Chloroethane	ug/l	10		U		5
MW-54R	cis-1,2-Dichloroethene	ug/l			U		5
MW-54R	Tetrachloroethene	ug/l	10		U		5
MW-54R	trans-1,2-Dichloroethene	ug/l			U		5
MW-54R	Trichloroethene	ug/l	10		U		5
MW-54R	Vinyl chloride	ug/l	10		U		5
MW-55	1,1-Dichloroethane	ug/l	10		U		5
MW-55	1,1-Dichloroethene	ug/l	10		U		5
MW-55	1,2-Dichloroethane	ug/l	10		U		5
MW-55	Benzene	ug/l	10		U		5
MW-55	Chloroethane	ug/l	10		U		5
MW-55	cis-1,2-Dichloroethene	ug/l			U		5
MW-55	Tetrachloroethene	ug/l	10		U		5
MW-55	trans-1,2-Dichloroethene	ug/l			U		5
MW-55	Trichloroethene	ug/l	10		U		5
MW-55	Vinyl chloride	ug/l	10		U		5
MW-56	1,1-Dichloroethane	ug/l			U		5
MW-56	1,1-Dichloroethene	ug/l			U		5
MW-56	1,2-Dichloroethane	ug/l			U		5
MW-56	Benzene	ug/l		1,200	D	J	42
MW-56	Chloroethane	ug/l		6.4			5
MW-56	cis-1,2-Dichloroethene	ug/l			U		5
MW-56	Tetrachloroethene	ug/l			U		5
MW-56	trans-1,2-Dichloroethene	ug/l			U		5
MW-56	Trichloroethene	ug/l			U		5
MW-56	Vinyl chloride	ug/l			U		5

= Exceedance of Highest Baseline Detection

NA = Not Applicable

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendices C and D.

CAS/ALC
J:\209\0603 ACS\Database\GW Monitoring\Access2000versions\ACS GW Database_2000.mdb [rptNewResults10VOCs]
2090603.030401

Monitoring Well Semi-Volatile Organic Results - March 2005
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	March 2005			
				Result	LQ	DQ	Detect Limit
MW-06	bis(2-chloroethyl) ether	ug/l	56		U		10
MW-09R	bis(2-chloroethyl) ether	ug/l	50	8	J		10
MW-19	bis(2-chloroethyl) ether	ug/l	12	[redacted]			10

[redacted] = Exceedance
NA = Not Applicable

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendices C and D.

CAS/ALC
J:\209\0603 ACS\Database\ACS GW_2002.mdb [rptNewResultsSVOC]
2090603.030401

Monitoring Well Inorganic Results - March 2005
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	March 2005			
				Result	LQ	DQ	Detect Limit
MW-06	Arsenic	ug/l	72		U		10
MW-15	Arsenic	ug/l	59	13.2			10
MW-43	Arsenic	ug/l	81	11.1			10

= Exceedance of Highest Baseline Detection
NA = Not Applicable

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendices C and D.

CAS/ALC
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2090603.030401

Appendix B

MWH

Appendix B
Concentration Vs. Time Plots

Upper Aquifer Monitoring Wells

MW06
MW11
MW12
MW13
MW14
MW15
MW17
MW19
MW37
MW39
MW42
MW43
MW44
MW45
MW48
MW49

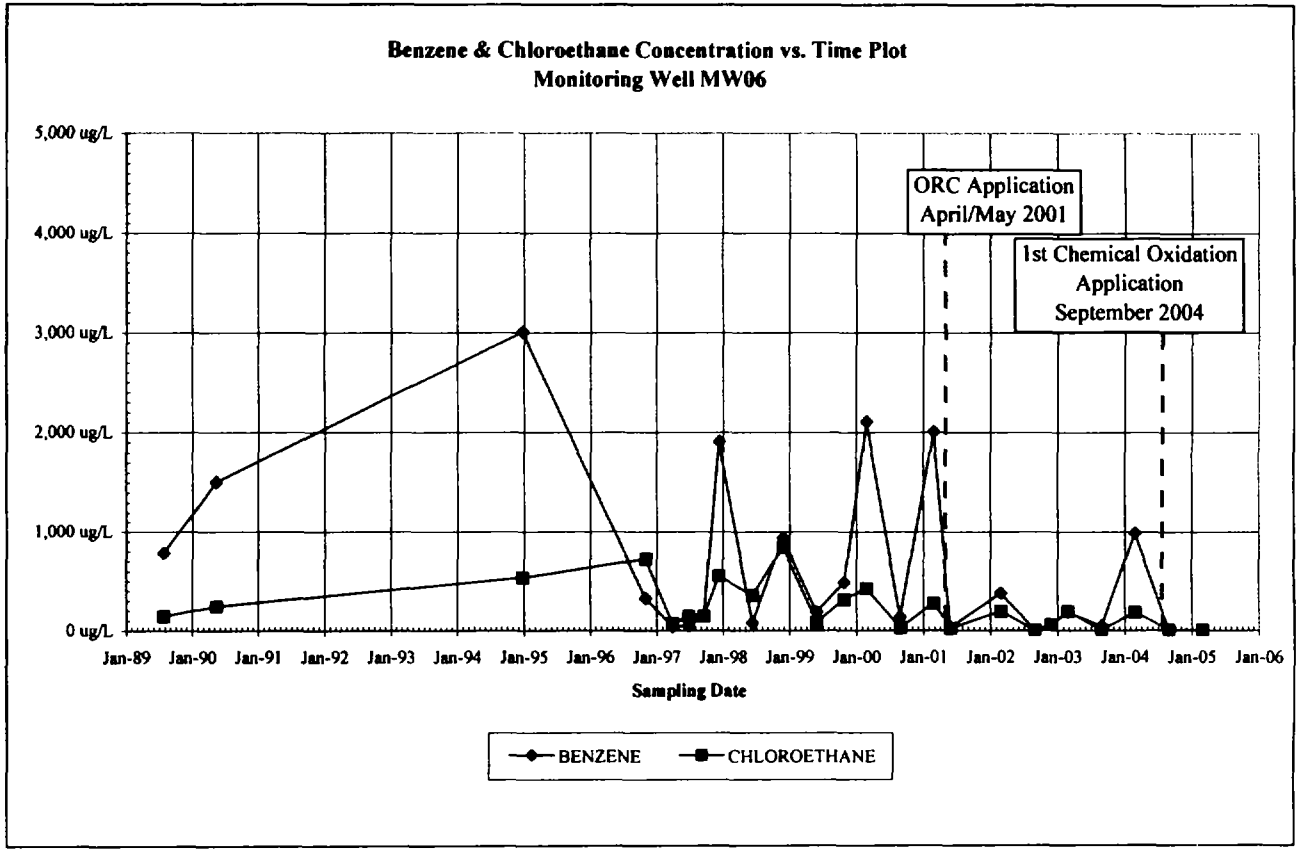
Lower Aquifer Monitoring Wells

MW08
MW09R
MW10C
MW23
MW28
MW29
MW30
MW31
MW32
MW33
MW51
MW52
MW53
MW54R
MW55
MW56

Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW06

DATE	BENZENE	CHLOROETHANE
BASELINE	**320**	**720**
August-89	780 ug/L	140 ug/L
May-90	1,500 ug/L	240 ug/L
December-94	3,000 ug/L	530 ug/L
November-96	320 ug/L	720 ug/L
April-97	35 ug/L	67 ug/L
July-97	39 ug/L	140 ug/L
September-97	140 ug/L	140 ug/L
December-97	1,900 ug/L	550 ug/L
June-98	72 ug/L	350 ug/L
December-98	930 ug/L	840 ug/L
June-99	180 ug/L	78 ug/L
November-99	480 ug/L	310 ug/L
March-00	2,100 ug/L	420 ug/L
September-00	130 ug/L	22 ug/L
March-01	2,000 ug/L	270 ug/L
June-01	26 ug/L	18 ug/L
March-02	370 ug/L	190 ug/L
September-02	BDL	BDL
December-02	54 ug/L	56 ug/L
March-03	180 ug/L	190 ug/L
September-03	39 ug/L	BDL
March-04	980 ug/L	180 ug/L
September-04	2.7 ug/L	2.6 ug/L
March-05	BDL	3 ug/L

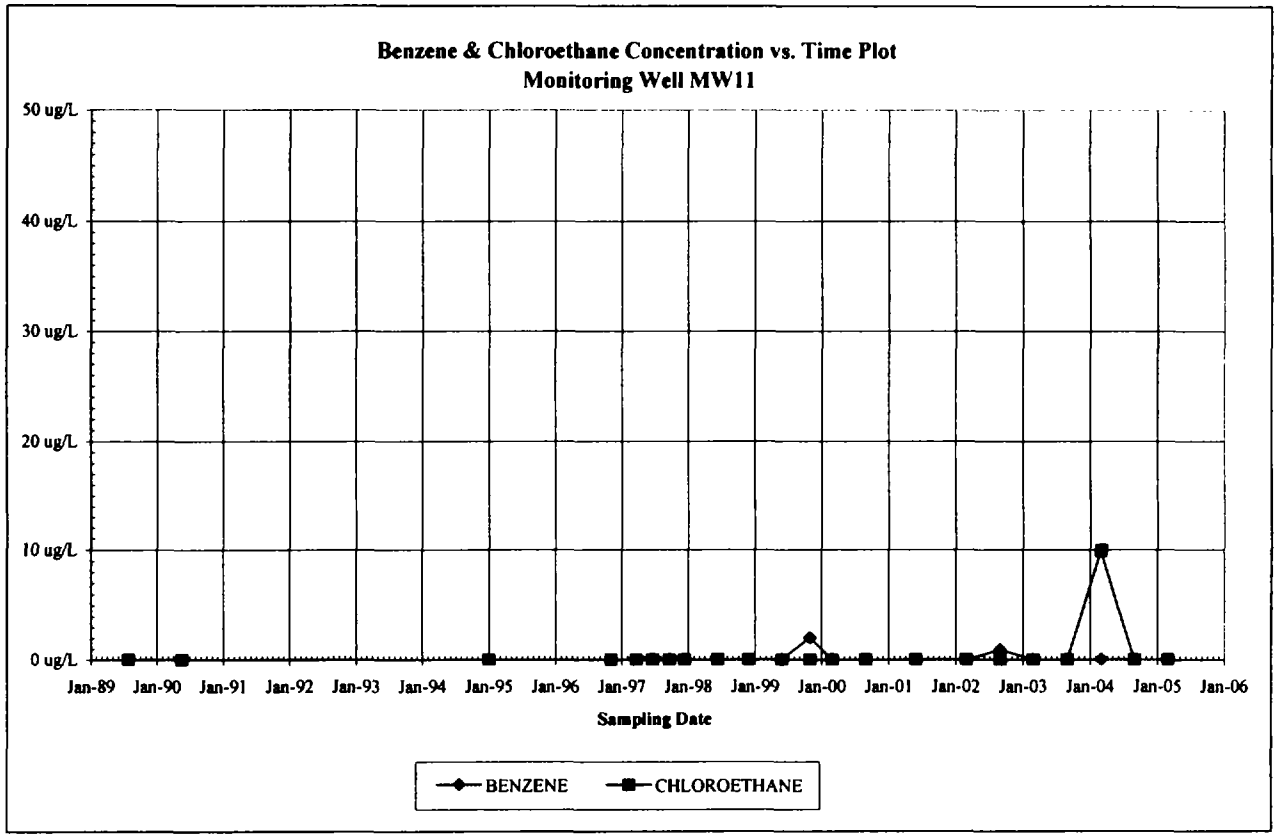
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW11

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89	BDL	BDL
May-90	BDL	BDL
January-95	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	2 ug/L	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	0.9 ug/L	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	9.9
September-04	BDL	BDL
March-05	BDL	BDL

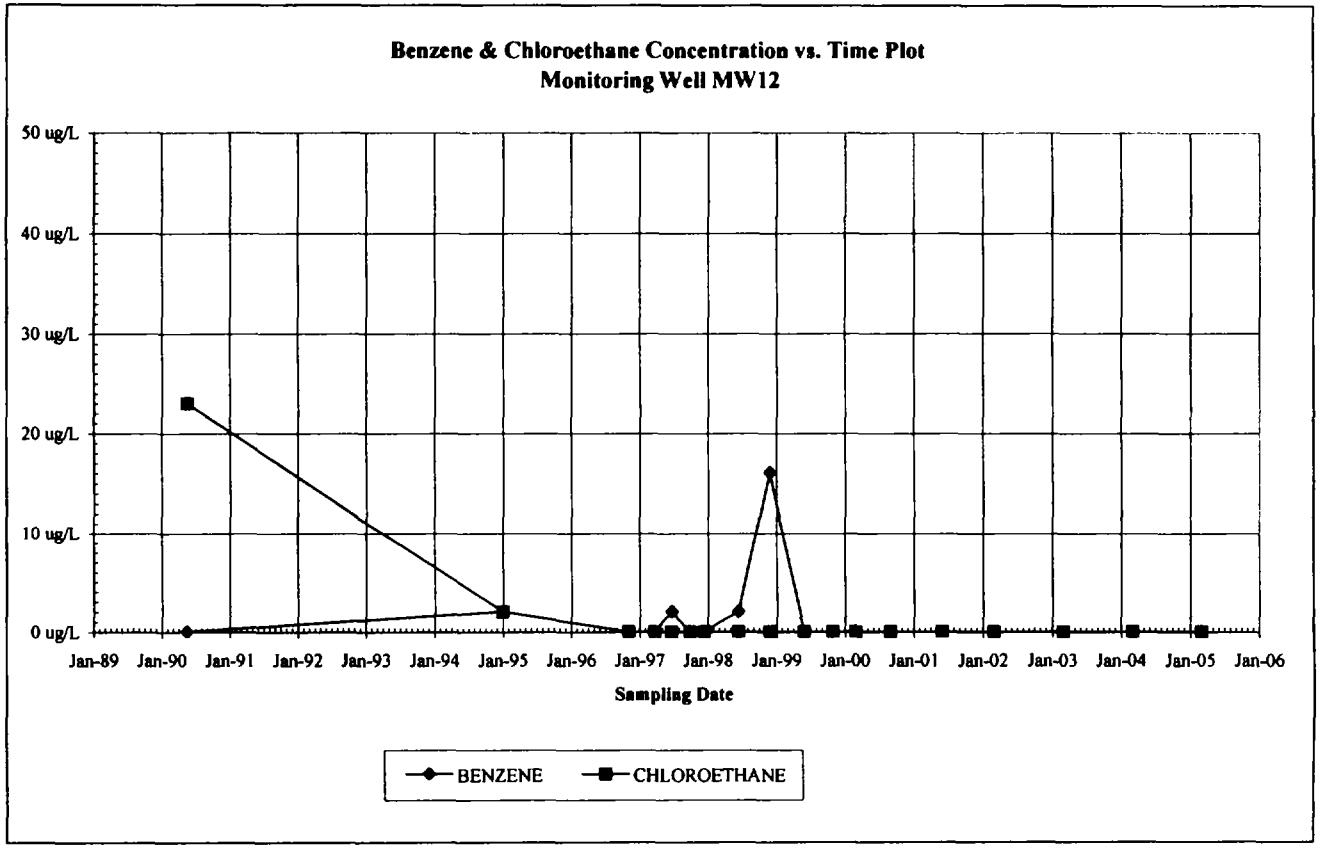
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW12

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90	BDL	23 ug/L
January-95	2 ug/L	2 ug/L
November-96	BDL	BDL
March-97	BDL	BDL
June-97	2 ug/L	BDL
October-97	BDL	BDL
December-97	BDL	BDL
June-98	2 ug/L	BDL
December-98	16 ug/L	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
March-03	BDL	BDL
March-04	BDL	BDL
March-05	BDL	BDL

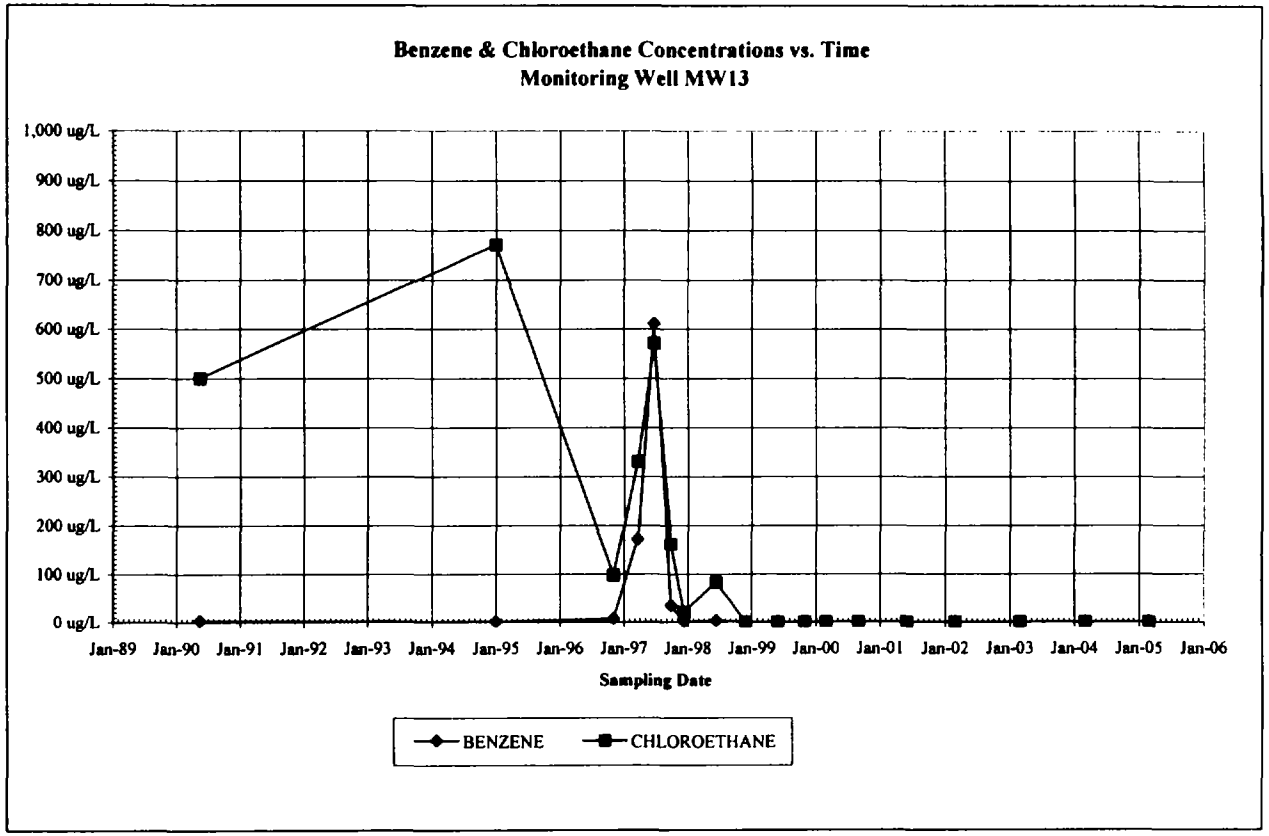
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW13

DATE	BENZENE	CHLOROETHANE
BASELINE	**610**	**570**
August-89		
May-90	2 ug/L	500 ug/L
January-95	BDL	770 ug/L
November-96	6 ug/L	97 ug/L
March-97	170 ug/L	330 ug/L
June-97	610 ug/L	570 ug/L
October-97	33 ug/L	160 ug/L
December-97	BDL	20 ug/L
June-98	2 ug/L	82 ug/L
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
March-03	BDL	BDL
March-04	BDL	BDL
March-05	BDL	BDL

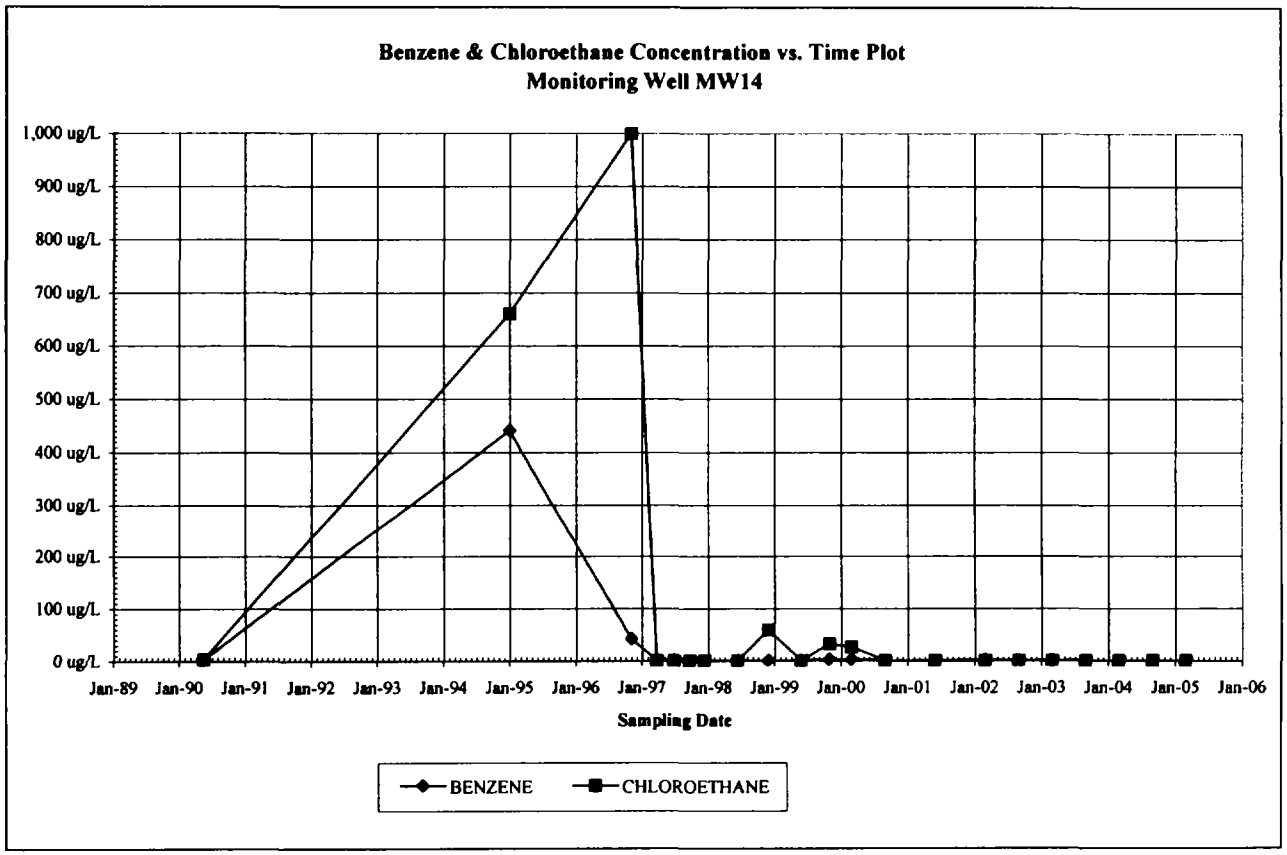
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW14

DATE	BENZENE	CHLOROETHANE
BASELINE	41	1000
August-89		
May-90	2 ug/L	3 ug/L
January-95	440 ug/L	660 ug/L
November-96	41 ug/L	1,000 ug/L
March-97	BDL	BDL
June-97	1 ug/L	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	59 ug/L
June-99	BDL	BDL
November-99	2 ug/L	32 ug/L
March-00	2 ug/L	26 ug/L
September-00	BDL	BDL
June-01	BDL	BDL
March-02	1 ug/L	BDL
September-02	BDL	BDL
March-03	0.7 ug/L	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

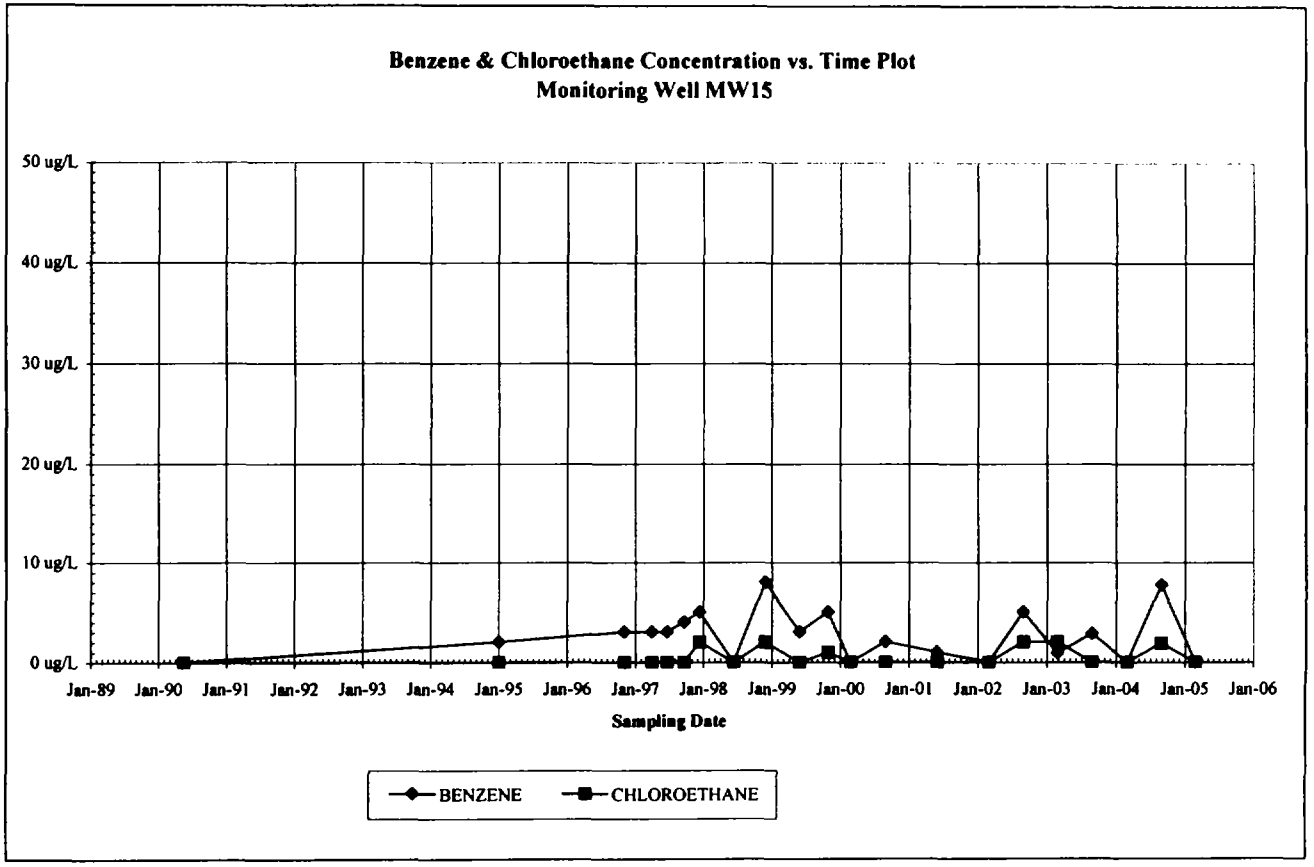
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW15

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90	BDL	BDL
January-95	2 ug/L	BDL
November-96	3 ug/L	BDL
April-97	3 ug/L	BDL
June-97	3 ug/L	BDL
September-97	4 ug/L	BDL
December-97	5 ug/L	2 ug/L
June-98	BDL	BDL
December-98	8 ug/L	2 ug/L
June-99	3 ug/L	BDL
November-99	5 ug/L	1 ug/L
March-00	BDL	BDL
September-00	2 ug/L	BDL
June-01	1 ug/L	BDL
March-02	BDL	BDL
September-02	5 ug/L	2 ug/L
March-03	1 ug/L	2 ug/L
September-03	2.8 ug/L	BDL
March-04	BDL	BDL
September-04	7.7 ug/L	1.9 ug/L
March-05	BDL	BDL

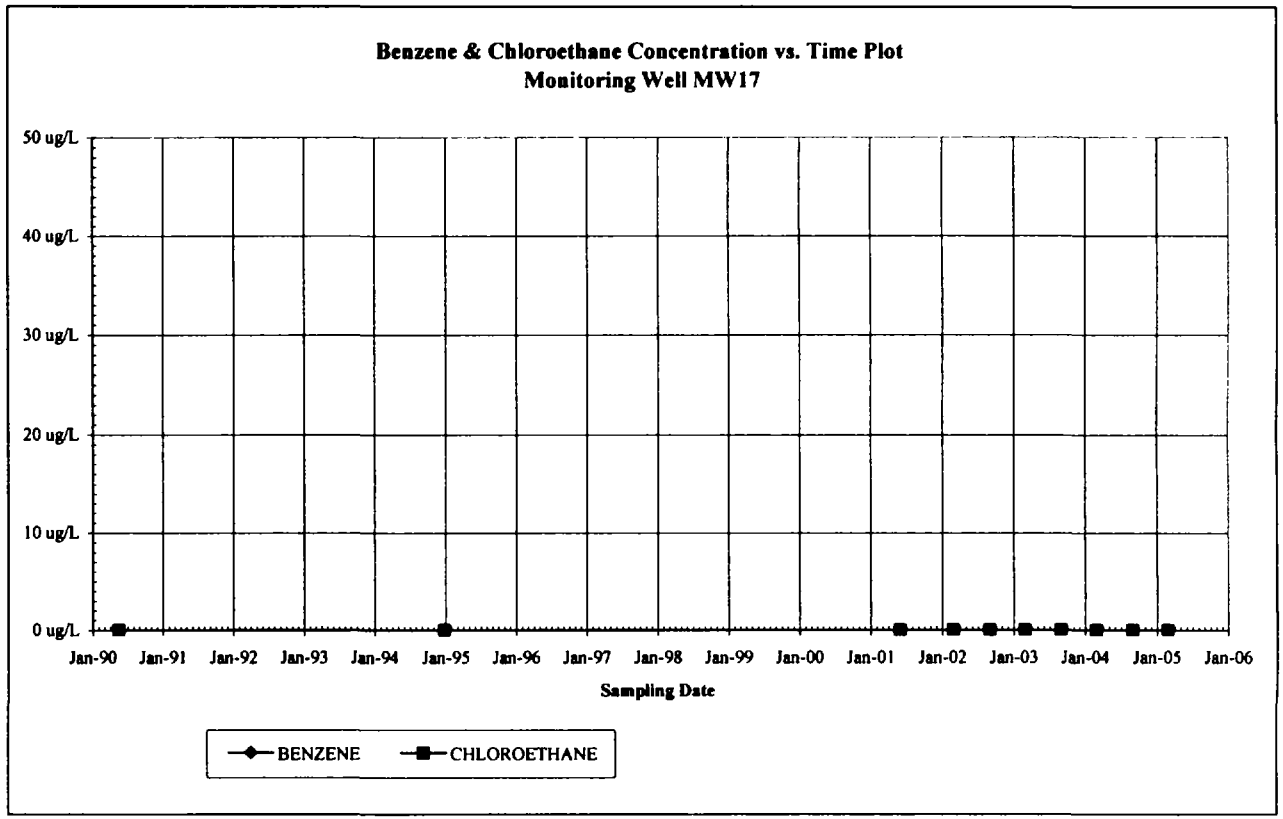
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW17

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
May-90	BDL	BDL
December-94	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

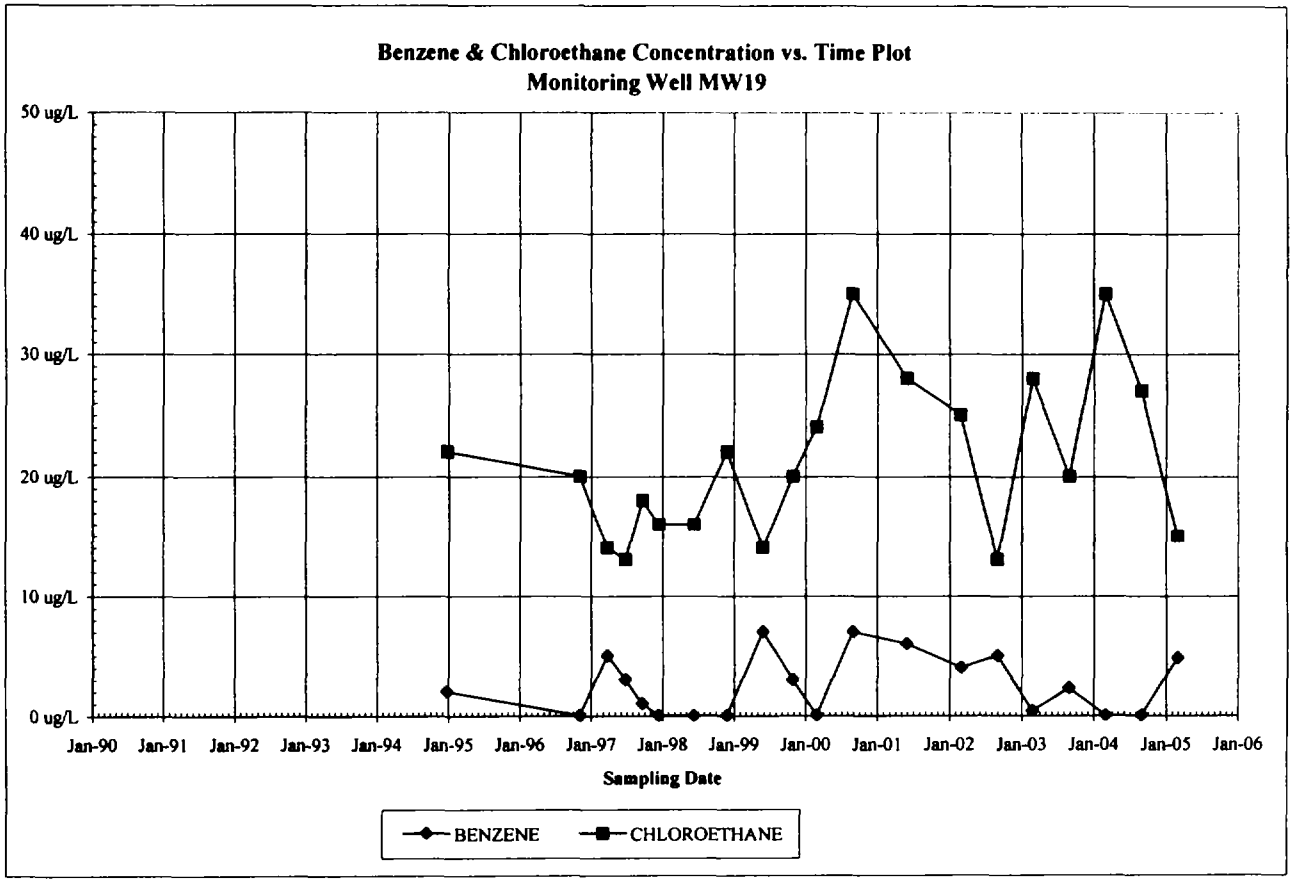
BDL = Below the Detection Limit
Baseline values adopted from nearby abandoned well MW18



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW19

DATE	BENZENE	CHLOROETHANE
BASELINE	10	20
August-89		
May-90		
December-94	2 ug/L	22 ug/L
November-96	BDL	20 ug/L
March-97	5 ug/L	14 ug/L
June-97	3 ug/L	13 ug/L
September-97	1 ug/L	18 ug/L
December-97	BDL	16 ug/L
June-98	BDL	16 ug/L
December-98	BDL	22 ug/L
June-99	7 ug/L	14 ug/L
November-99	3 ug/L	20 ug/L
March-00	BDL	24 ug/L
September-00	7 ug/L	35 ug/L
June-01	6 ug/L	28 ug/L
March-02	4 ug/L	25 ug/L
September-02	5 ug/L	13 ug/L
March-03	0.4 ug/L	28 ug/L
September-03	2.3 ug/L	20 ug/L
March-04	BDL	35 ug/L
September-04	BDL	27 ug/L
March-05	4.8 ug/L	15 ug/L

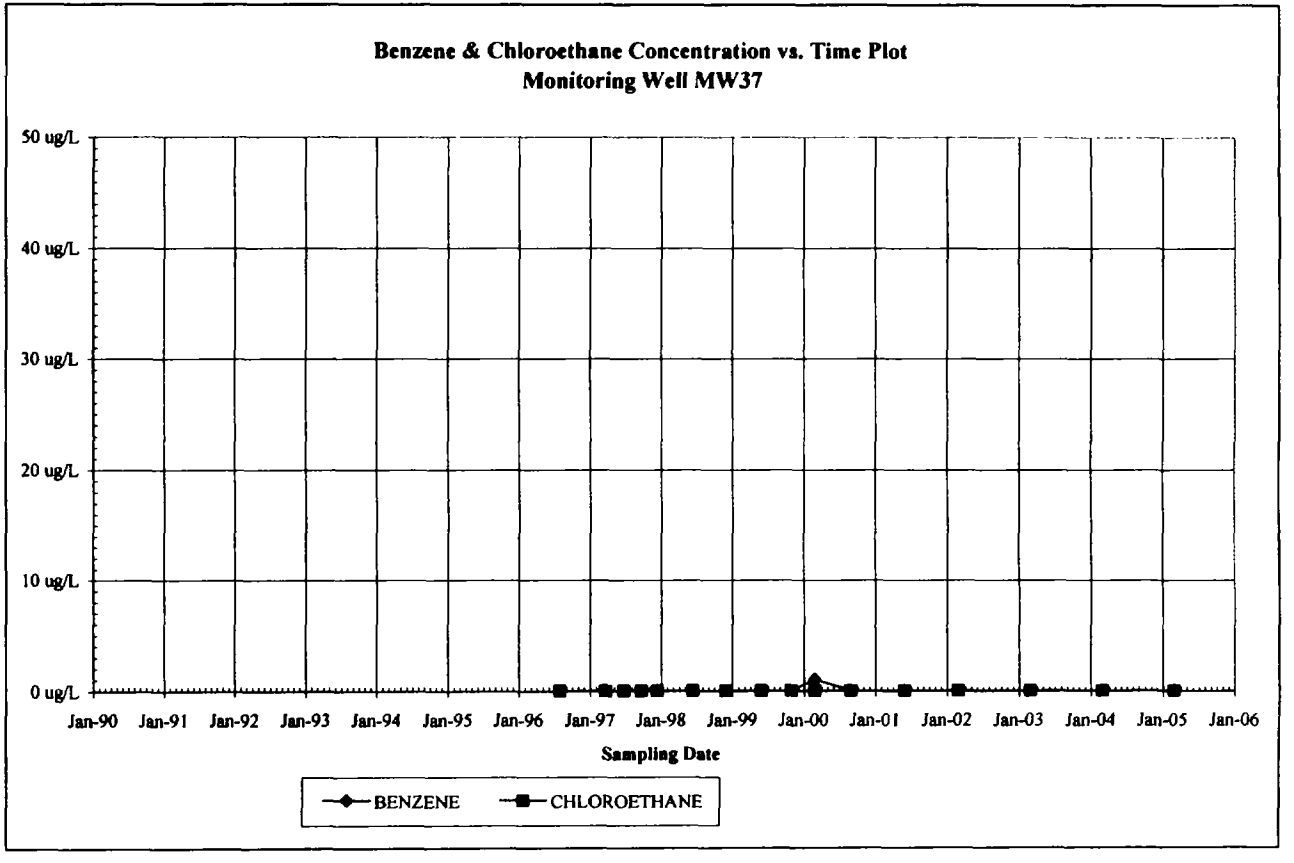
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW37

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	1 ug/L	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
March-03	BDL	BDL
March-04	BDL	BDL
March-05	BDL	BDL

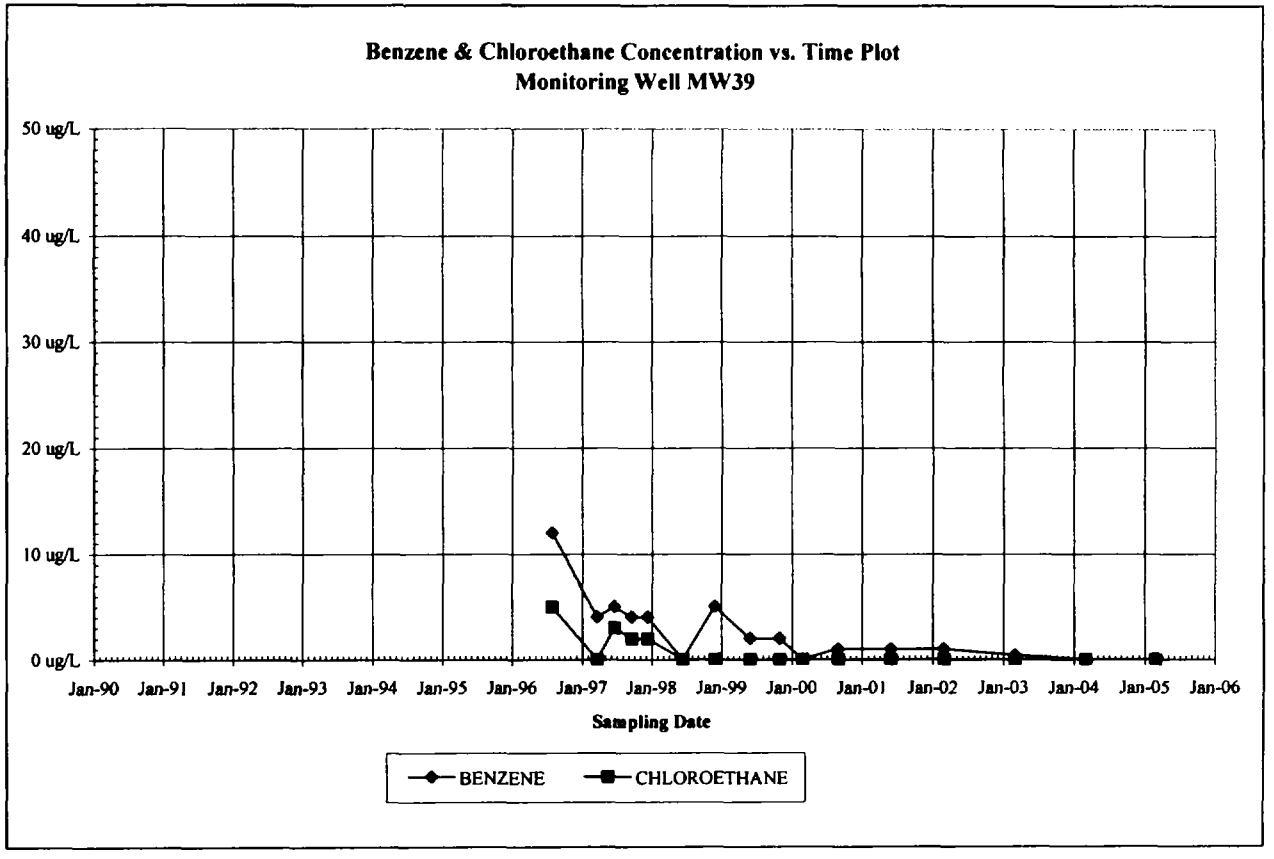
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW39

DATE	BENZENE	CHLOROETHANE
BASELINE	12	10
August-89		
May-90		
December-94		
August-96	12 ug/L	5 ug/L
March-97	4 ug/L	BDL
June-97	5 ug/L	3 ug/L
September-97	4 ug/L	2 ug/L
December-97	4 ug/L	2 ug/L
June-98	BDL	BDL
December-98	5 ug/L	BDL
June-99	2 ug/L	BDL
November-99	2 ug/L	BDL
March-00	BDL	BDL
September-00	1 ug/L	BDL
June-01	1 ug/L	BDL
March-02	1 ug/L	BDL
March-03	0.4 ug/L	BDL
March-04	BDL	BDL
March-05	BDL	BDL

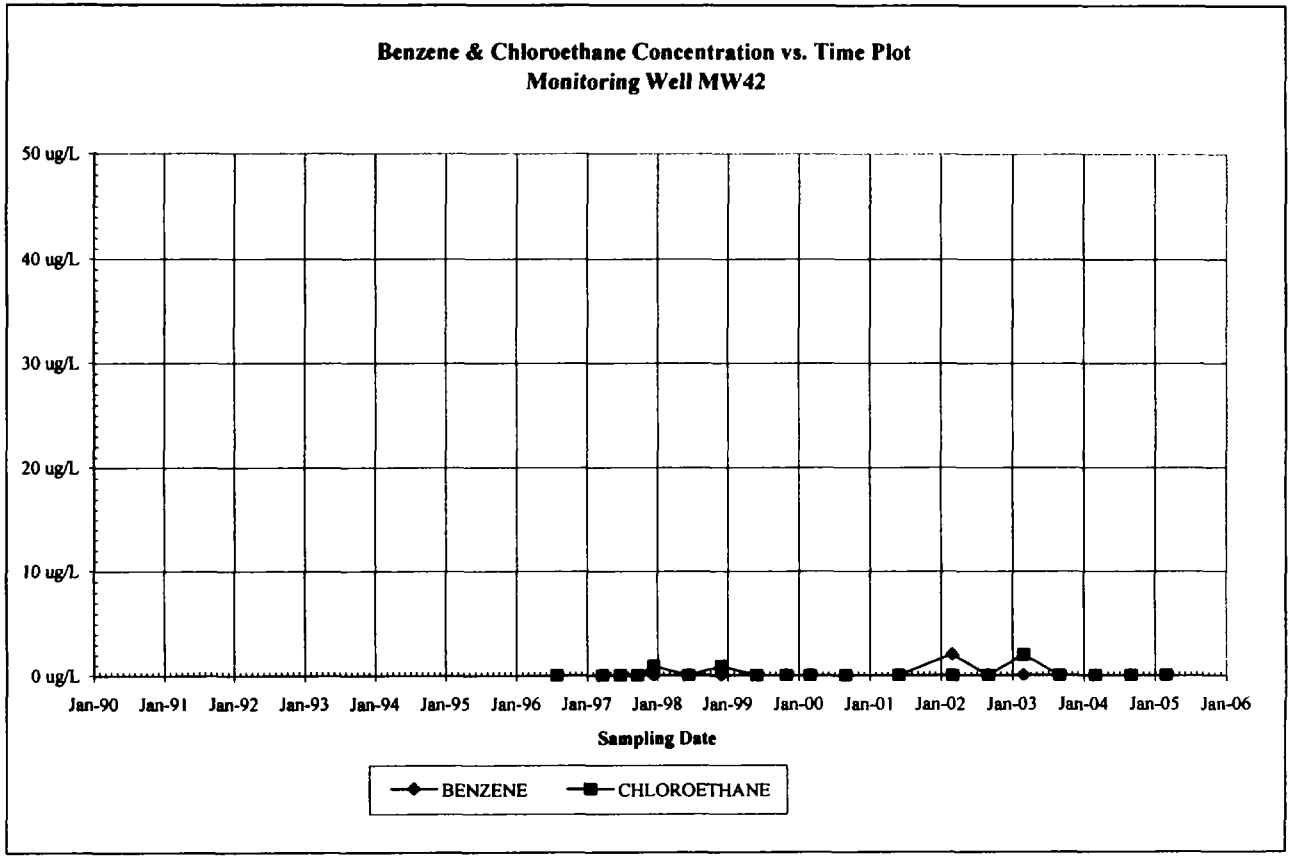
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW42

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	0.9 ug/L
June-98	BDL	BDL
December-98	BDL	0.9 ug/L
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	2 ug/L	BDL
September-02	BDL	BDL
March-03	BDL	2 ug/L
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

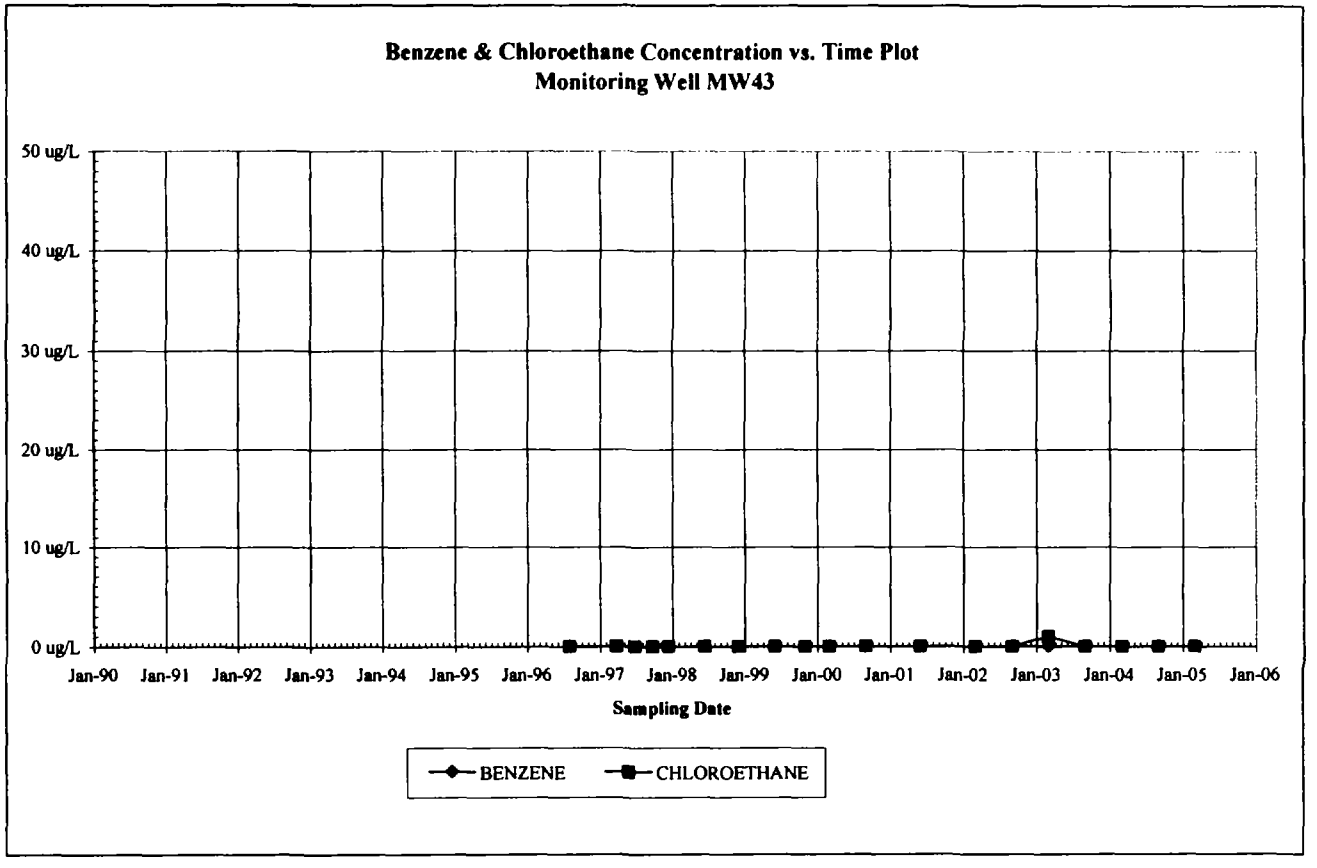
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW43

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	1 ug/L
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

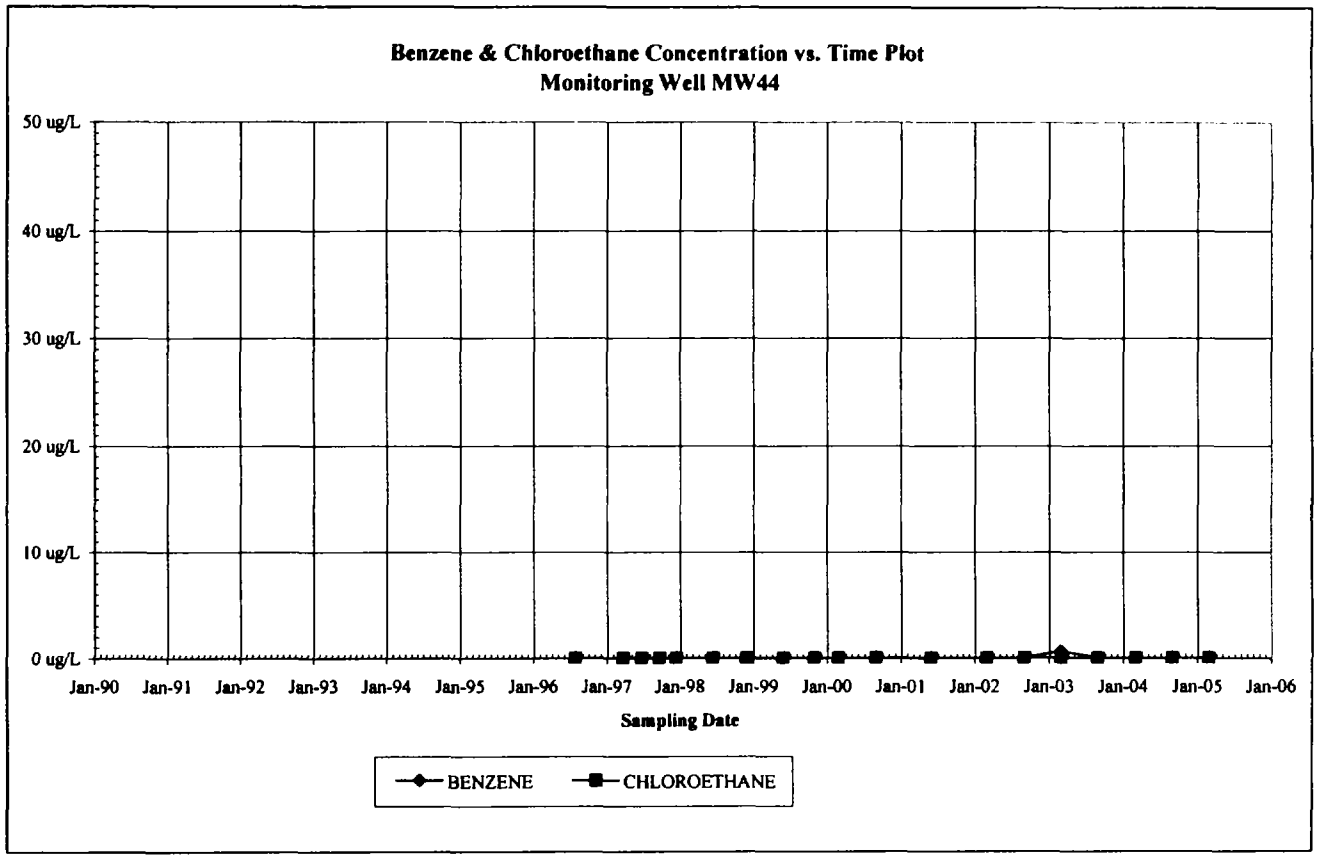
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW44

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	0.6 ug/L	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

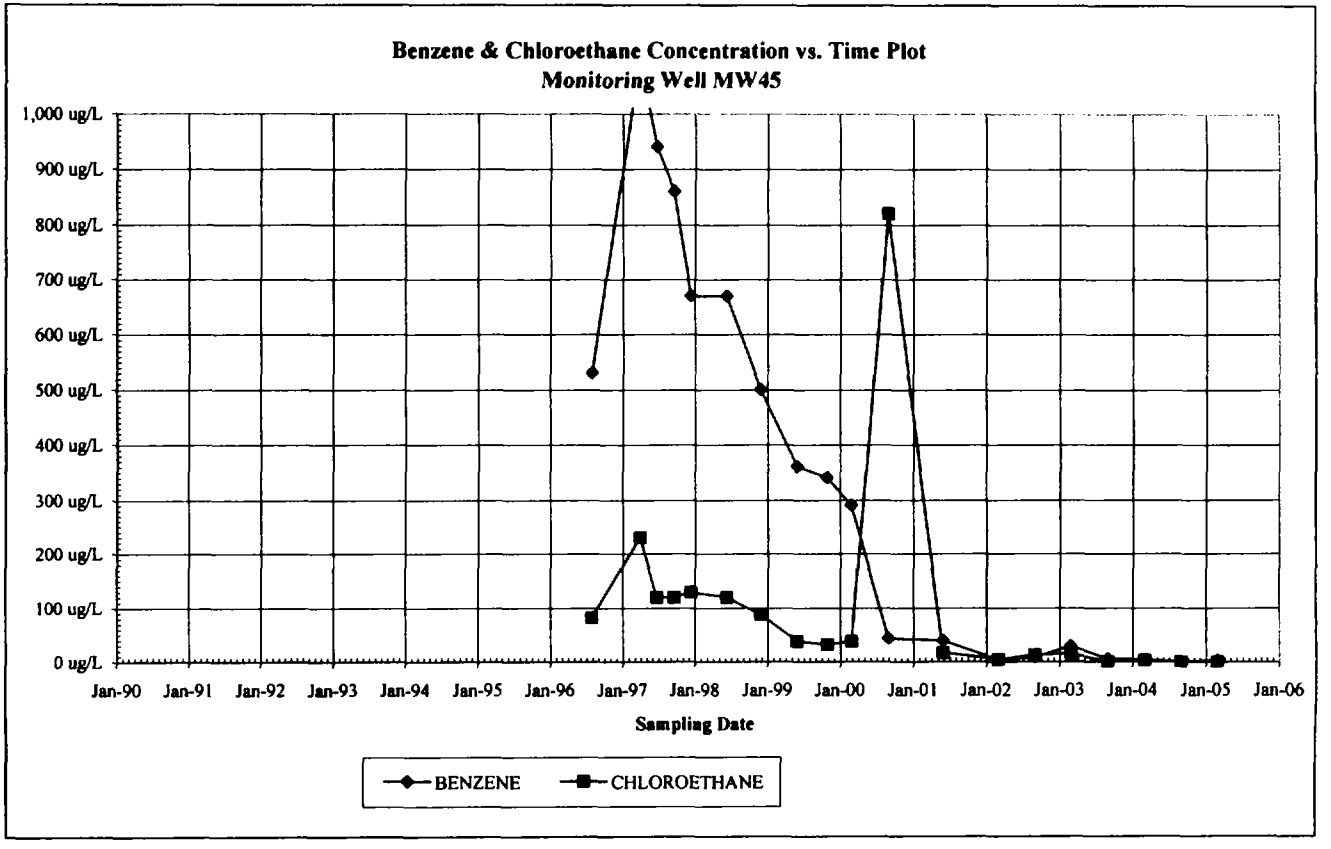
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW45

DATE	BENZENE	CHLOROETHANE
BASELINE	1045	215
August-89		
May-90		
December-94		
August-96	530 ug/L	82 ug/L
April-97	1,100 ug/L	230 ug/L
June-97	940 ug/L	120 ug/L
September-97	860 ug/L	120 ug/L
December-97	670 ug/L	130 ug/L
June-98	670 ug/L	120 ug/L
December-98	500 ug/L	88 ug/L
June-99	360 ug/L	38 ug/L
November-99	340 ug/L	32 ug/L
March-00	290 ug/L	38 ug/L
September-00	43 ug/L	820 ug/L
June-01	39 ug/L	17 ug/L
March-02	3 ug/L	4 ug/L
September-02	8 ug/L	13 ug/L
March-03	29 ug/L	15 ug/L
September-03	5 ug/L	BDL
March-04	3.7 ug/L	2.7 ug/L
September-04	BDL	BDL
March-05	2.4 ug/L	BDL

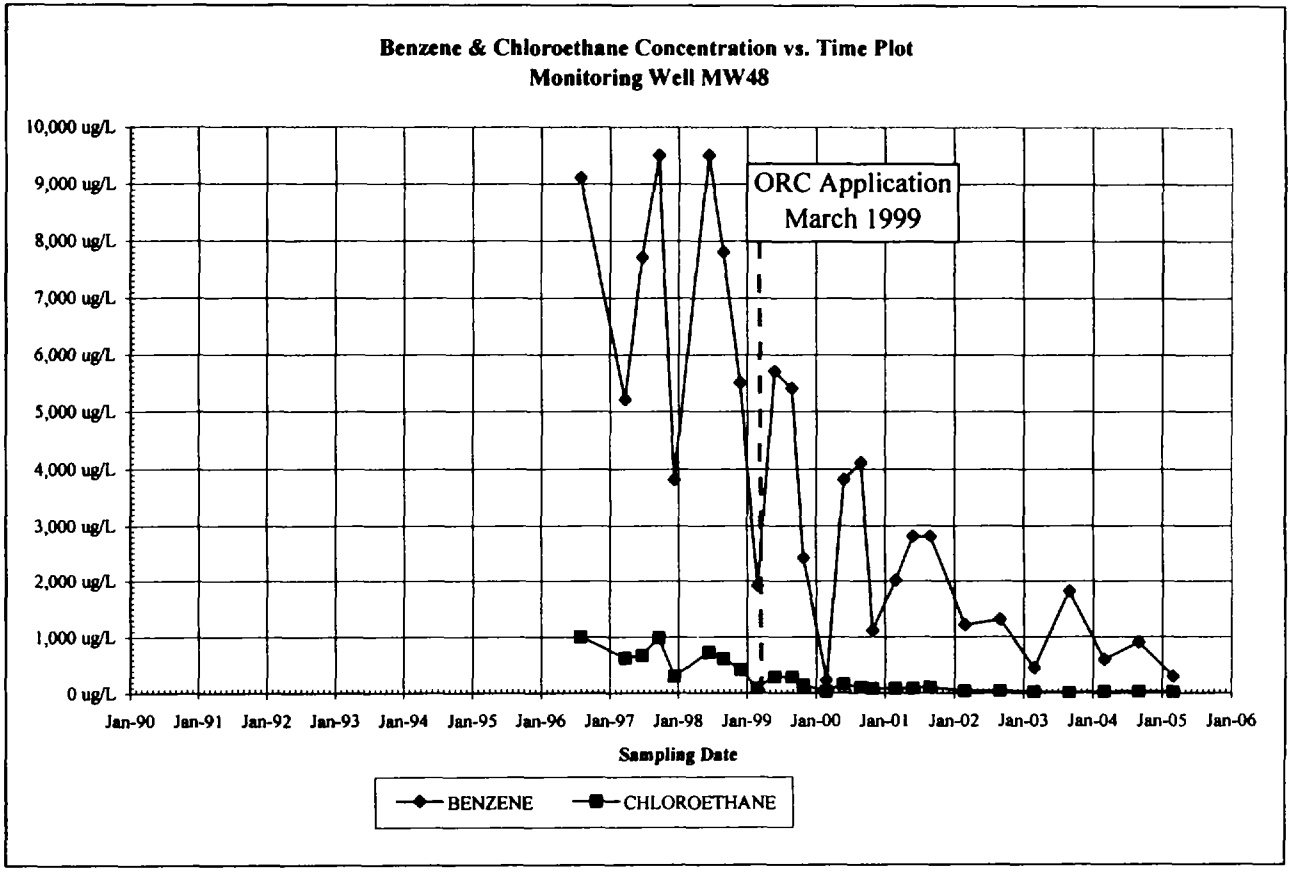
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW48

DATE	BENZENE	CHLOROETHANE
BASELINE	9500	1000
August-89		
May-90		
December-94		
August-96	9,100 ug/L	1,000 ug/L
March-97	5,200 ug/L	620 ug/L
June-97	7,700 ug/L	670 ug/L
September-97	9,500 ug/L	980 ug/L
December-97	3,800 ug/L	300 ug/L
June-98	9,500 ug/L	720 ug/L
September-98	7,800 ug/L	610 ug/L
December-98	5,500 ug/L	420 ug/L
March-99	1,900 ug/L	83 ug/L
June-99	5,700 ug/L	290 ug/L
September-99	5,400 ug/L	290 ug/L
November-99	2,400 ug/L	140 ug/L
March-00	220 ug/L	24 ug/L
June-00	3,800 ug/L	160 ug/L
September-00	4,100 ug/L	100 ug/L
November-00	1,100 ug/L	78 ug/L
March-01	2,000 ug/L	78 ug/L
June-01	2,800 ug/L	80 ug/L
September-01	2,800 ug/L	100 ug/L
March-02	1,200 ug/L	33 ug/L
September-02	1,300 ug/L	32 ug/L
March-03	440 ug/L	15 ug/L
September-03	1,800 ug/L	BDL
March-04	590 ug/L	22 ug/L
September-04	890 ug/L	20 ug/L
March-05	290 ug/L	19 ug/L

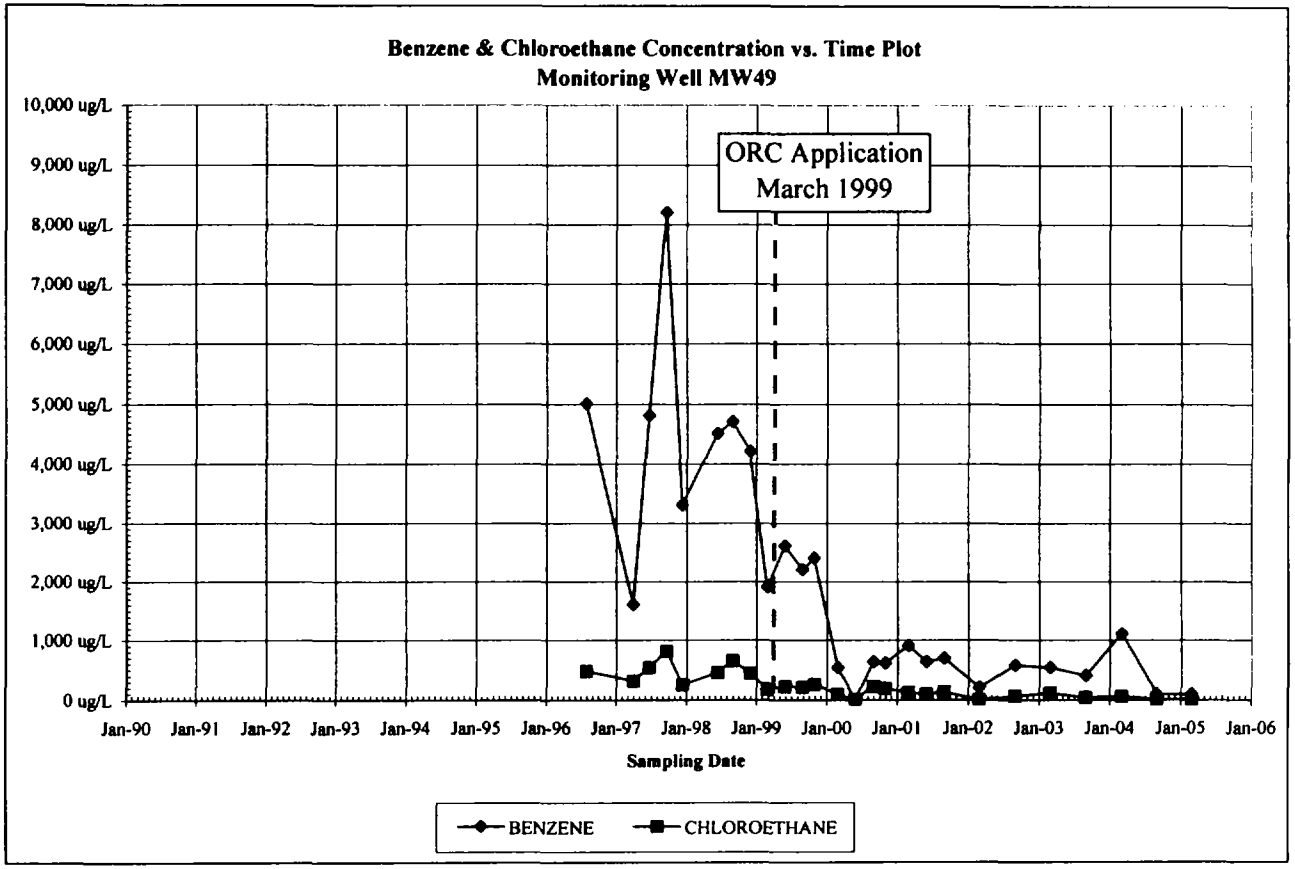
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW49

DATE	BENZENE	CHLOROETHANE
BASELINE	6750	715
August-89		
May-90		
December-94		
August-96	5,000 ug/L	480 ug/L
April-97	1,600 ug/L	310 ug/L
June-97	4,800 ug/L	540 ug/L
September-97	8,200 ug/L	810 ug/L
December-97	3,300 ug/L	250 ug/L
June-98	4,500 ug/L	450 ug/L
September-98	4,700 ug/L	650 ug/L
December-98	4,200 ug/L	440 ug/L
March-99	1,900 ug/L	180 ug/L
June-99	2,600 ug/L	220 ug/L
September-99	2,200 ug/L	210 ug/L
November-99	2,400 ug/L	260 ug/L
March-00	530 ug/L	91 ug/L
June-00	BDL	BDL
September-00	630 ug/L	220 ug/L
November-00	610 ug/L	190 ug/L
March-01	900 ug/L	120 ug/L
June-01	630 ug/L	91 ug/L
September-01	690 ug/L	130 ug/L
March-02	200 ug/L	BDL
September-02	570 ug/L	60 ug/L
March-03	530 ug/L	110 ug/L
September-03	400 ug/L	38 ug/L
March-04	1,100 ug/L	52 ug/L
September-04	90 ug/L	11 ug/L
March-05	89 ug/L	5.9 ug/L

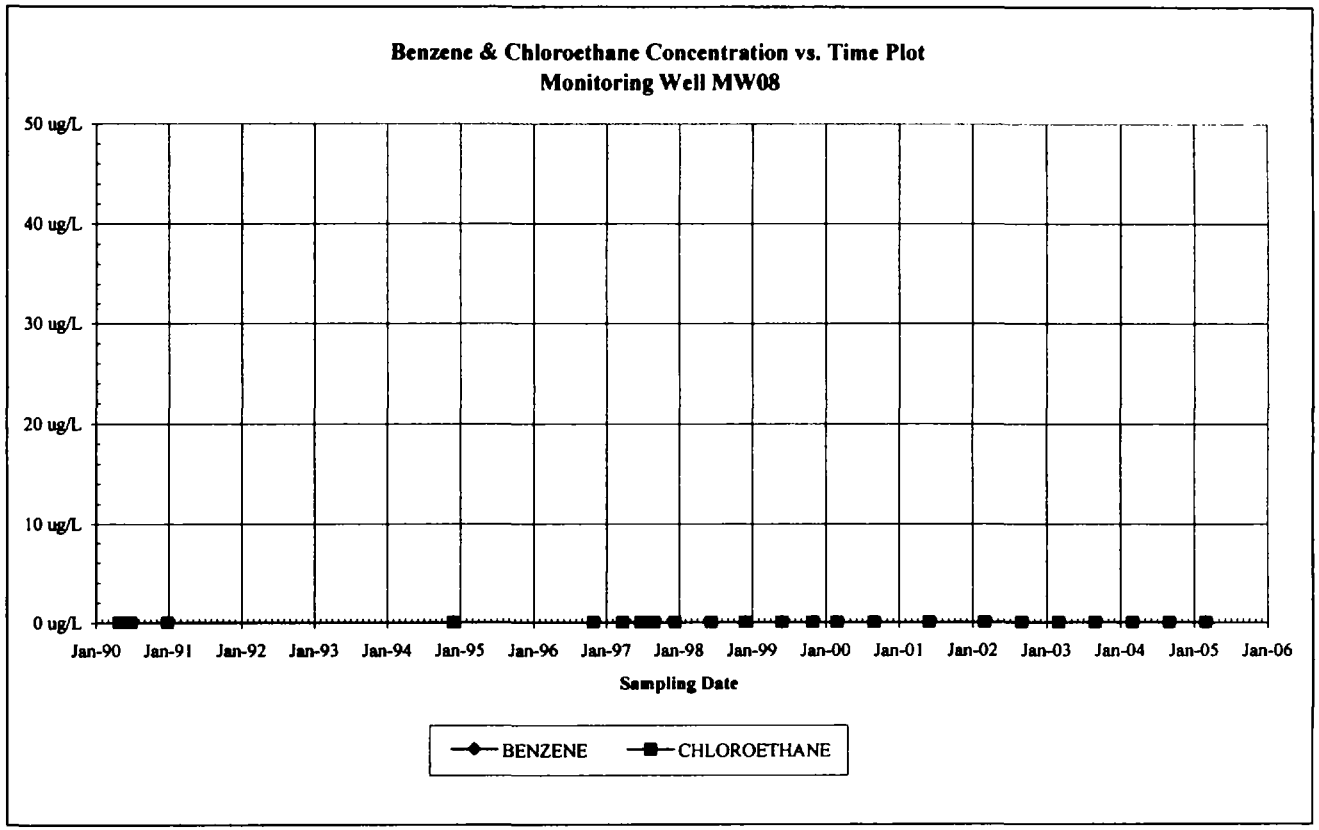
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW08

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
May-90	BDL	BDL
July-90	BDL	BDL
January-91	BDL	BDL
December-94	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

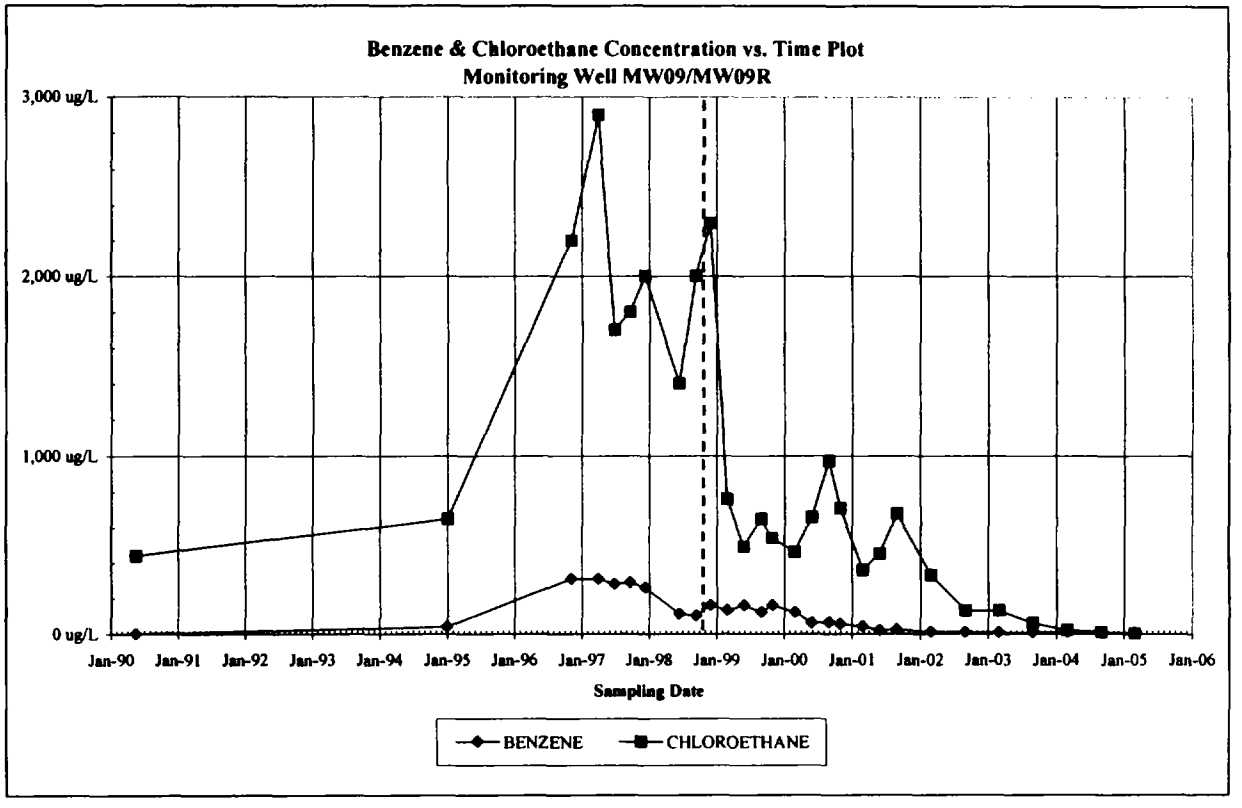
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW09/MW09R

DATE	BENZENE	CHLOROETHANE	
BASELINE	310	2900	
August-89			
May-90	BDL	440 ug/L	
January-95	40 ug/L	650 ug/L	
November-96	310 ug/L	2,200 ug/L	
April-97	310 ug/L	2,900 ug/L	
June-97	280 ug/L	1,700 ug/L	
September-97	290 ug/L	1,800 ug/L	
December-97	260 ug/L	2,000 ug/L	MW09
June-98	110 ug/L	1,400 ug/L	MW09R
September-98	100 ug/L	2,000 ug/L	
December-98	160 ug/L	2,300 ug/L	
March-99	130 ug/L	760 ug/L	
June-99	160 ug/L	490 ug/L	
September-99	120 ug/L	650 ug/L	
November-99	160 ug/L	540 ug/L	
March-00	120 ug/L	460 ug/L	
June-00	60 ug/L	660 ug/L	
September-00	65 ug/L	970 ug/L	
November-00	55 ug/L	710 ug/L	
March-01	41 ug/L	360 ug/L	
June-01	19 ug/L	450 ug/L	
September-01	23 ug/L	680 ug/L	
March-02	11 ug/L	330 ug/L	
September-02	9 ug/L	130 ug/L	
March-03	8 ug/L	130 ug/L	
September-03	6.6 ug/L	61 ug/L	
March-04	8.3 ug/L	22 ug/L	
September-04	6.5 ug/L	11 ug/L	
March-05	6.8 ug/L	3.8 ug/L	

BDL = Below the Detection Limit

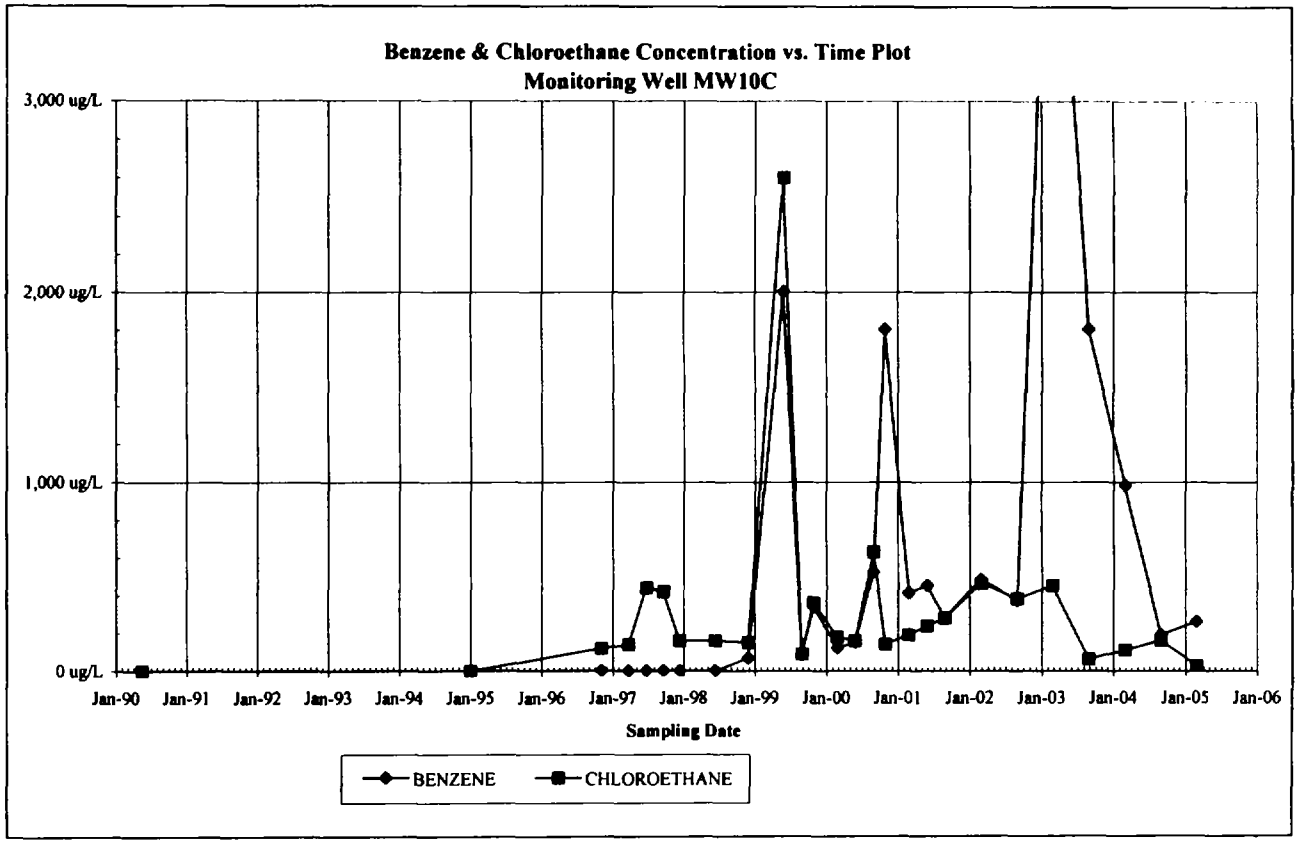


------ Line indicates change to replacement well

Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW10C

DATE	BENZENE	CHLOROETHANE
BASELINE	150	420
August-89		
May-90	BDL	BDL
January-95	BDL	BDL
November-96	BDL	120 ug/L
March-97	BDL	140 ug/L
June-97	BDL	440 ug/L
September-97	BDL	420 ug/L
December-97	BDL	160 ug/L
June-98	BDL	160 ug/L
December-98	66 ug/L	150 ug/L
June-99	2,000 ug/L	2,600 ug/L
September-99	83 ug/L	88 ug/L
November-99	340 ug/L	360 ug/L
March-00	120 ug/L	180 ug/L
June-00	150 ug/L	160 ug/L
September-00	520 ug/L	630 ug/L
November-00	1,800 ug/L	140 ug/L
March-01	410 ug/L	190 ug/L
June-01	450 ug/L	240 ug/L
September-01	280 ug/L	280 ug/L
March-02	480 ug/L	460 ug/L
September-02	370 ug/L	380 ug/L
March-03	4,800 ug/L	450 ug/L
September-03	1,800 ug/L	60 ug/L
March-04	980 ug/L	110 ug/L
September-04	190 ug/L	160 ug/L
March-05	260 ug/L	25 ug/L

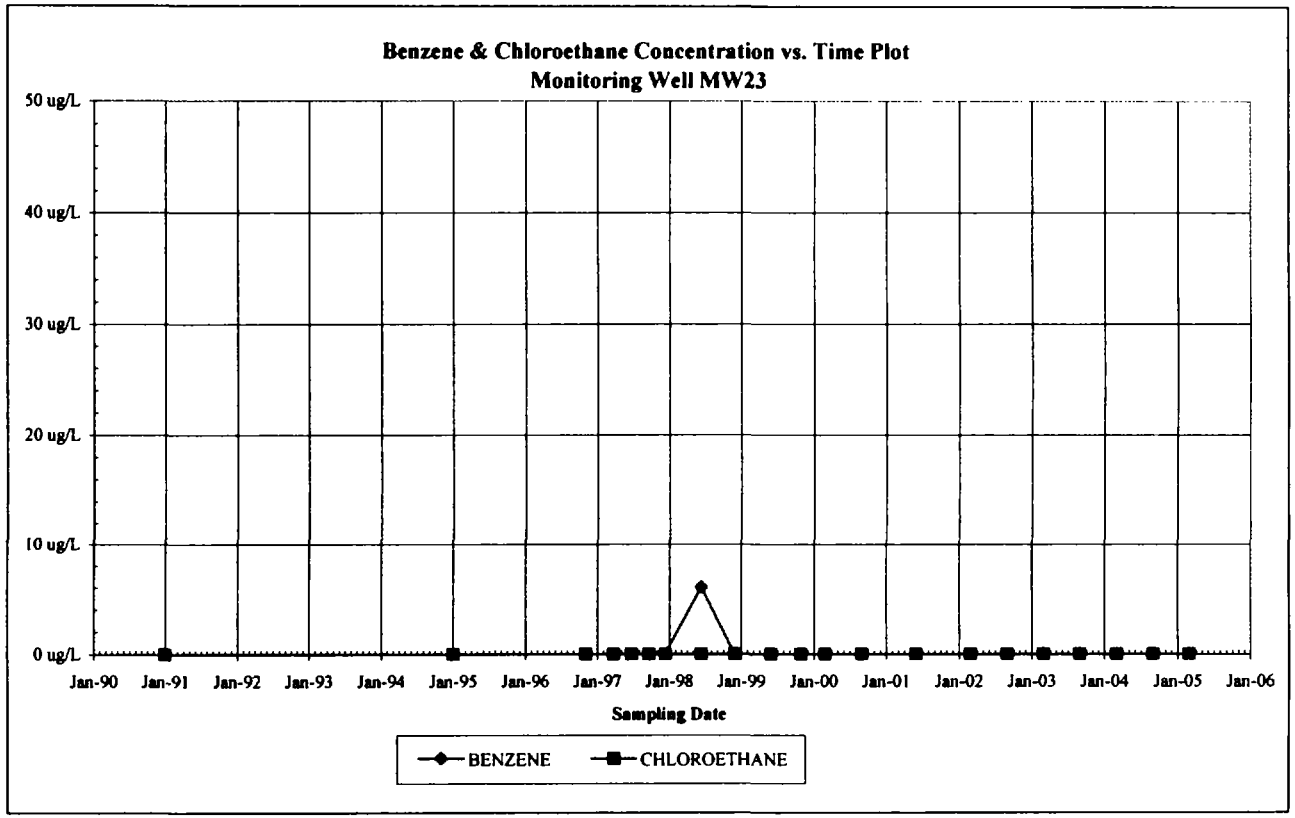
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW23

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
January-91	BDL	BDL
January-95	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	6 ug/L	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

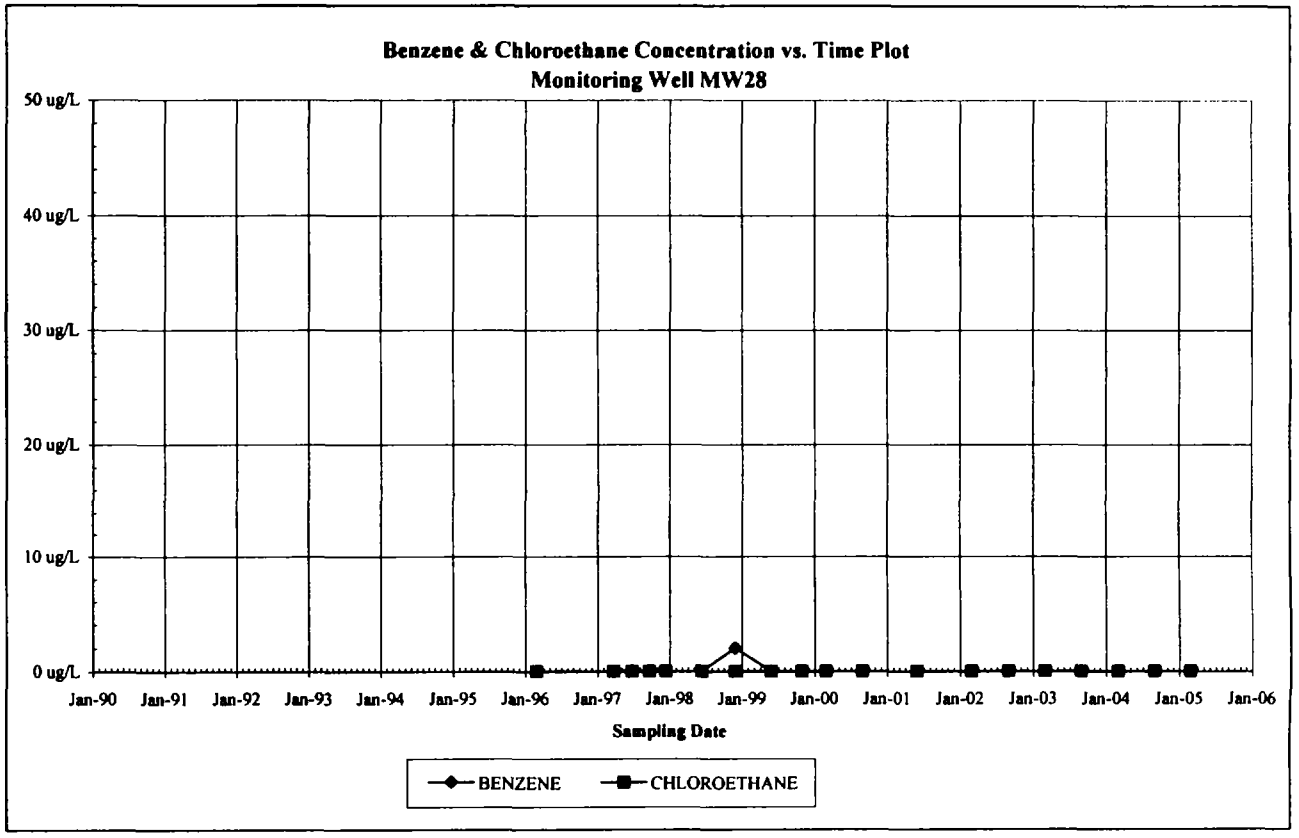
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW28

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
January-95		
March-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	2 ug/L	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

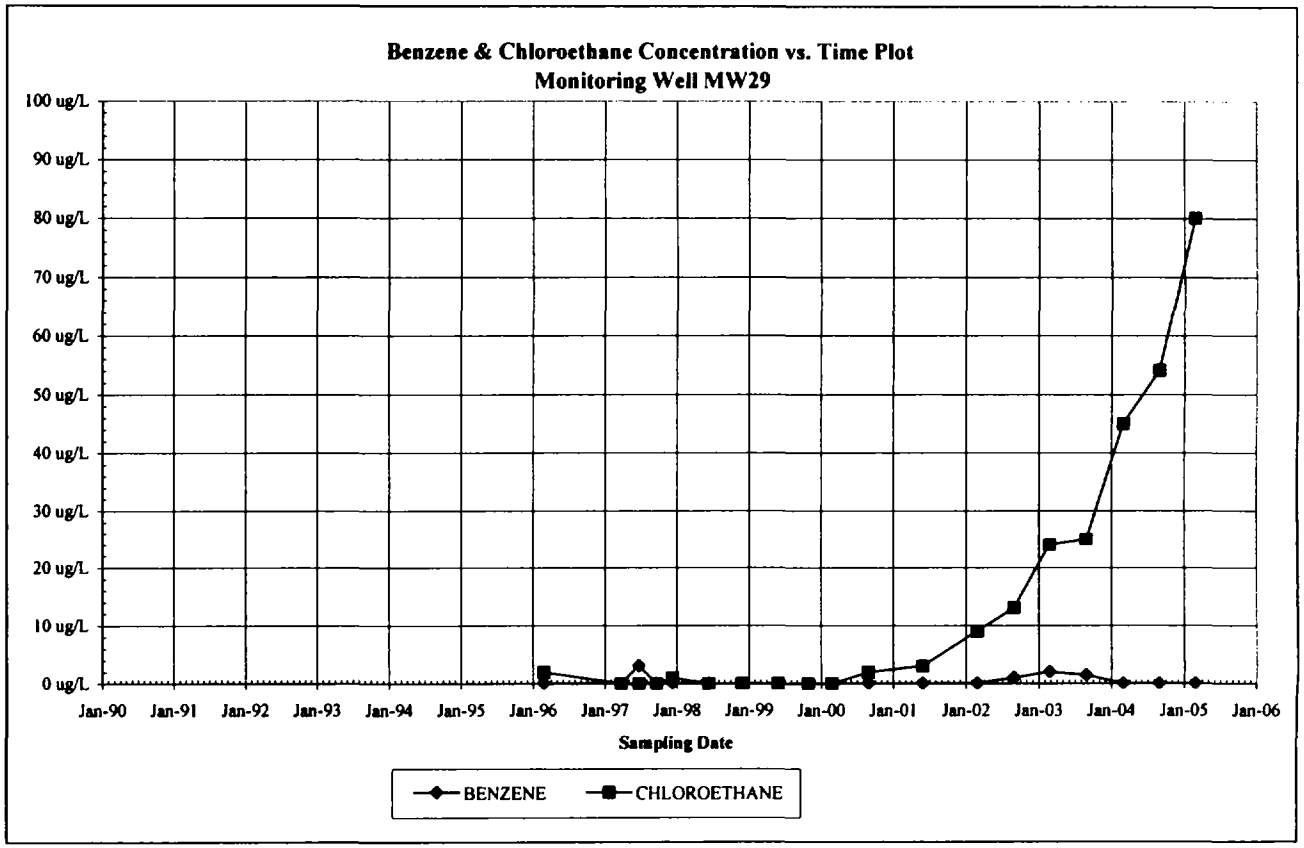
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW29

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
January-95		
March-96	BDL	2 ug/L
March-97	BDL	BDL
June-97	3 ug/L	BDL
September-97	BDL	BDL
December-97	BDL	1 ug/L
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	2 ug/L
June-01	BDL	3 ug/L
March-02	BDL	9 ug/L
September-02	1 ug/L	13 ug/L
March-03	2 ug/L	24 ug/L
September-03	1.4 ug/L	25 ug/L
March-04	BDL	45 ug/L
September-04	BDL	54 ug/L
March-05	BDL	80 ug/L

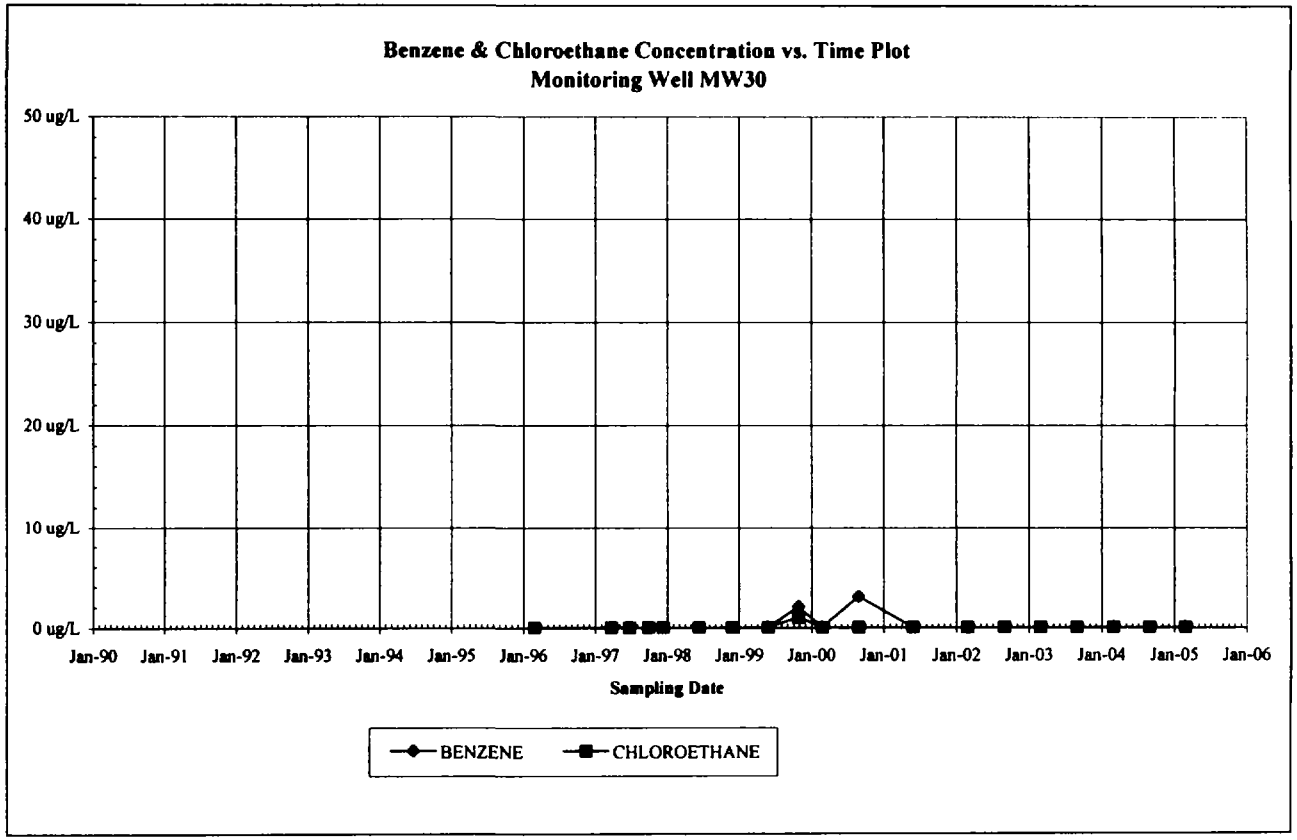
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW30

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
January-95		
March-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
October-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	2 ug/L	1 ug/L
March-00	BDL	BDL
September-00	3 ug/L	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

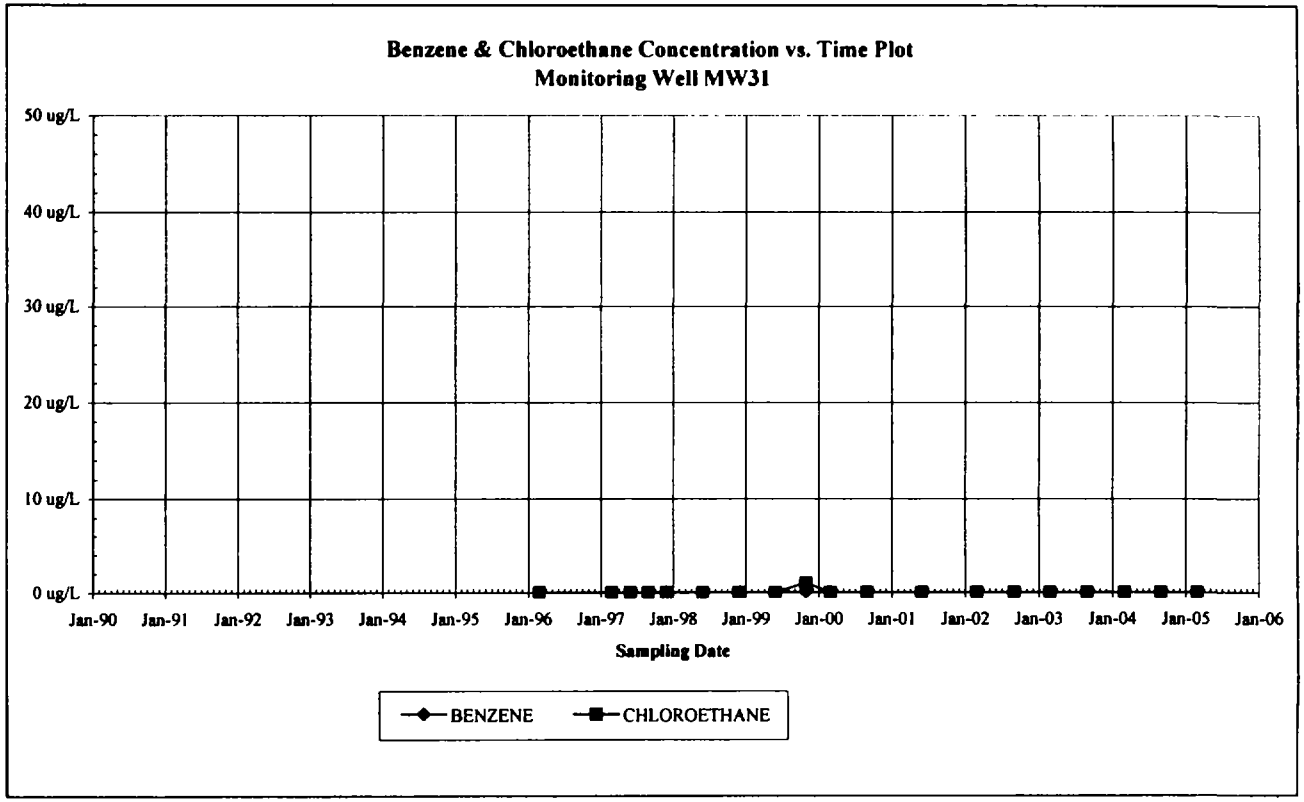
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW31

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
January-95		
March-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	1 ug/L
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

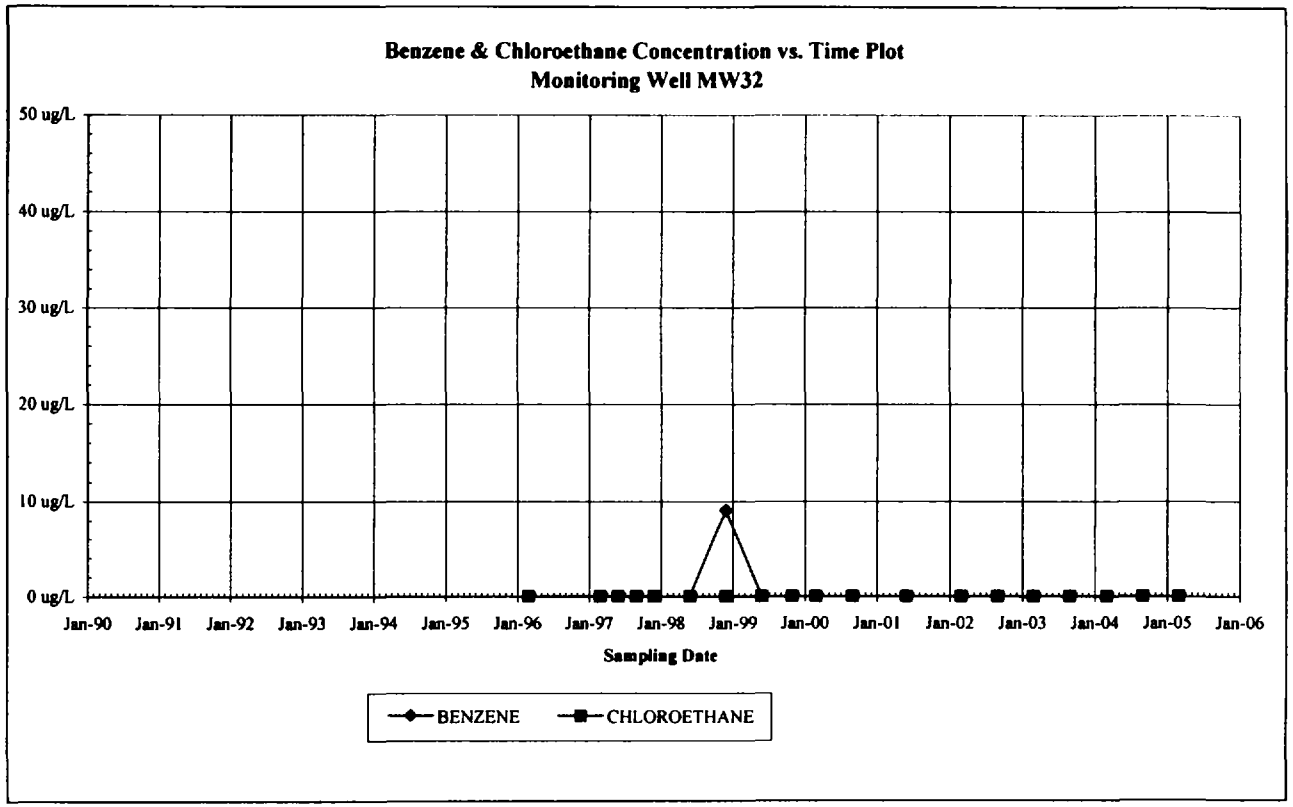
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW32

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
January-95		
March-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	9 ug/L	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

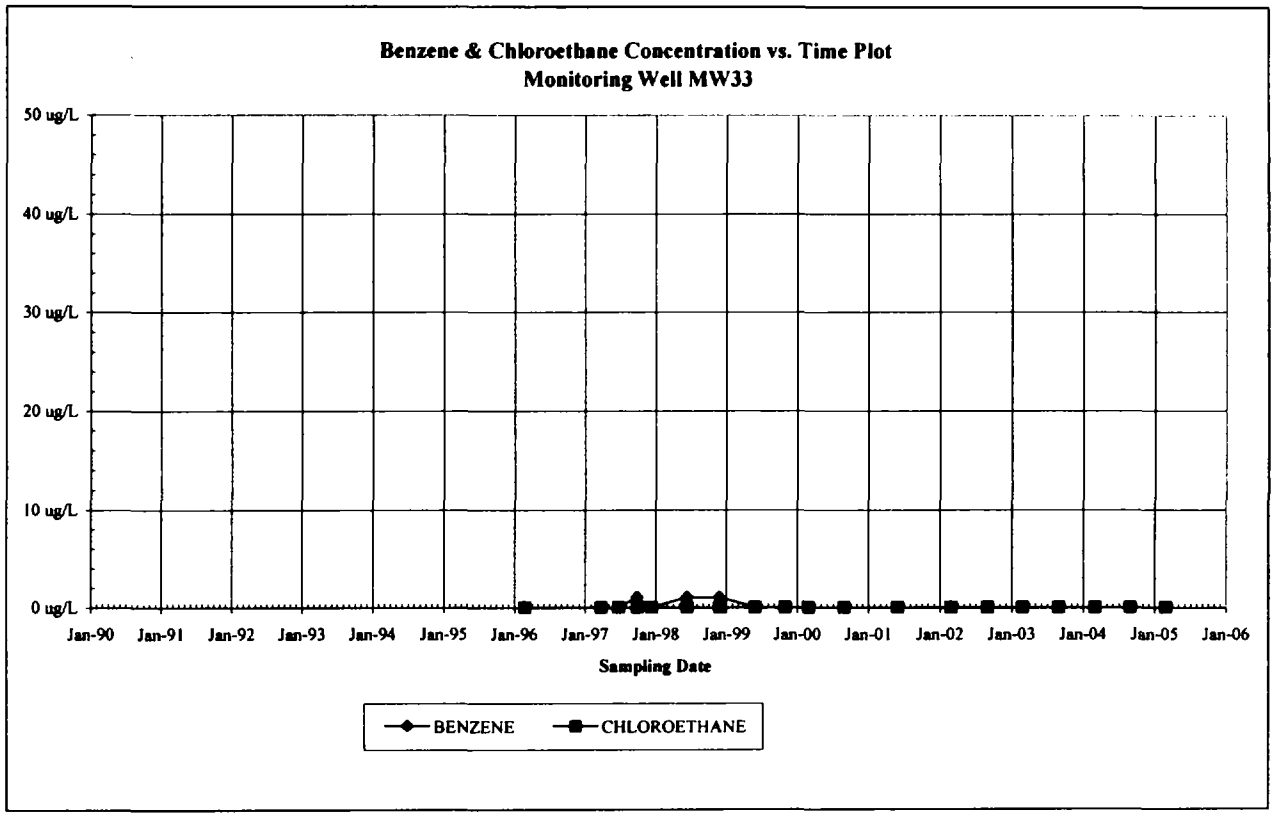
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW33

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
January-95		
March-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
October-97	1 ug/L	BDL
December-97	BDL	BDL
June-98	1 ug/L	BDL
December-98	1 ug/L	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

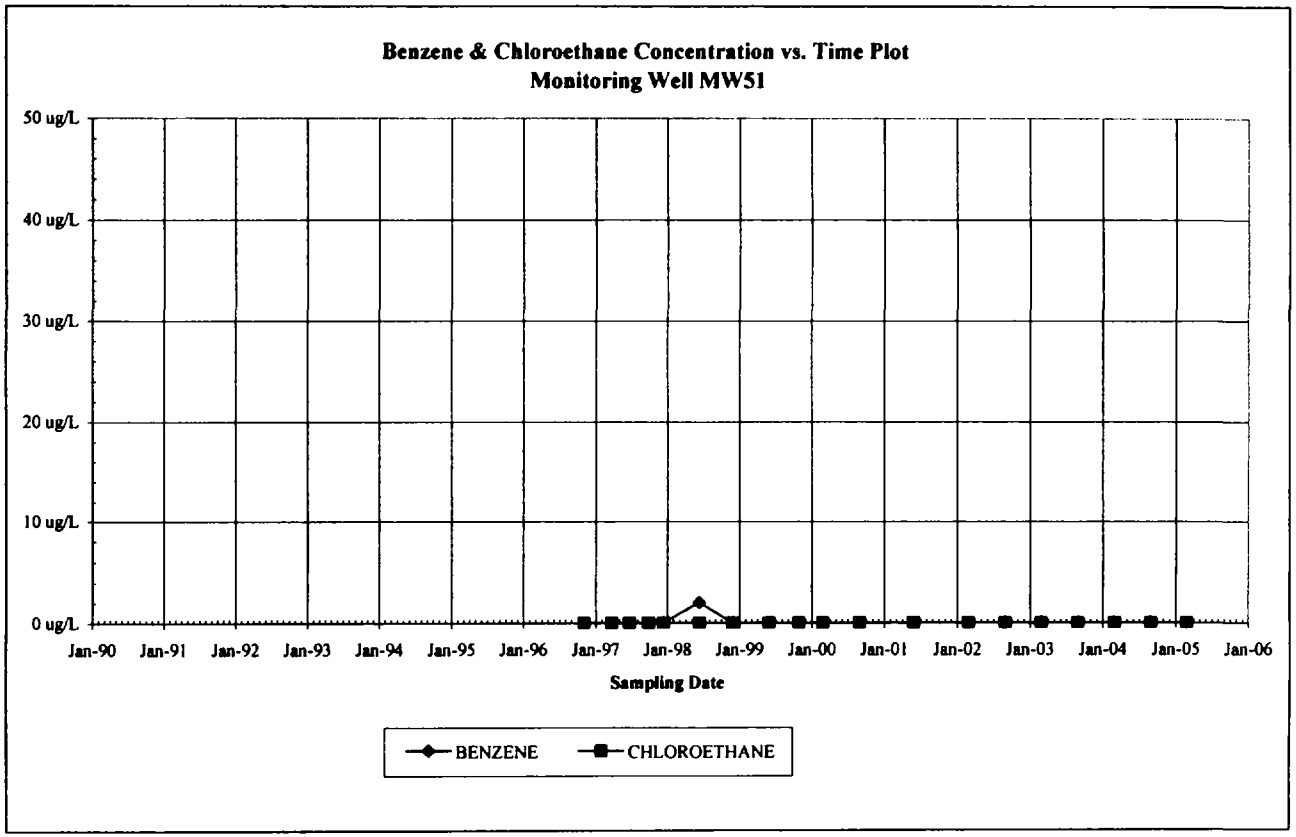
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW51

DATE	BENZENE	CHLOROETHANE
BASELINE	100	100
August-89		
May-90		
January-95		
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
October-97	BDL	BDL
December-97	BDL	BDL
June-98	2 ug/L	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

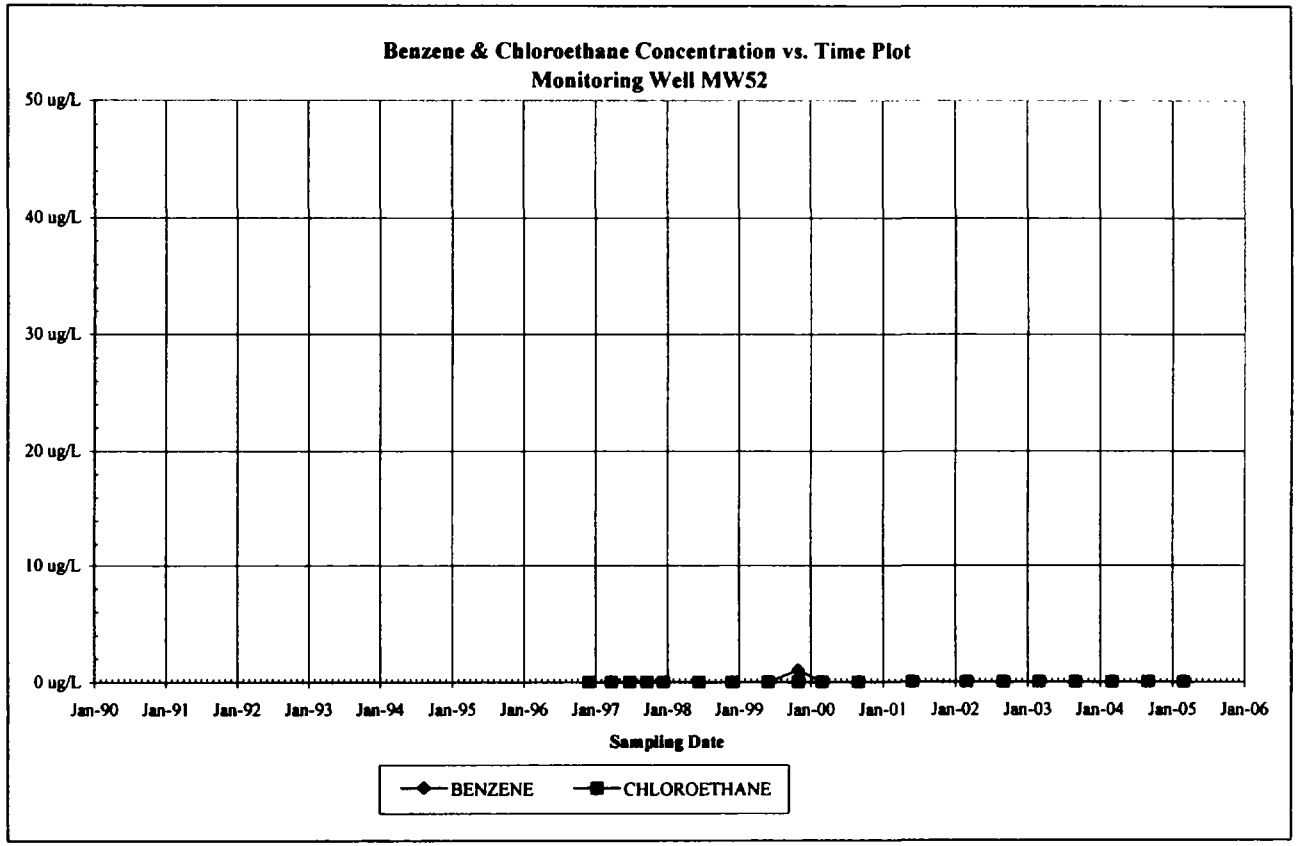
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW52

DATE	BENZENE	CHLOROETHANE
BASELINE	100	100
August-89		
May-90		
January-95		
December-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	1 ug/L	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

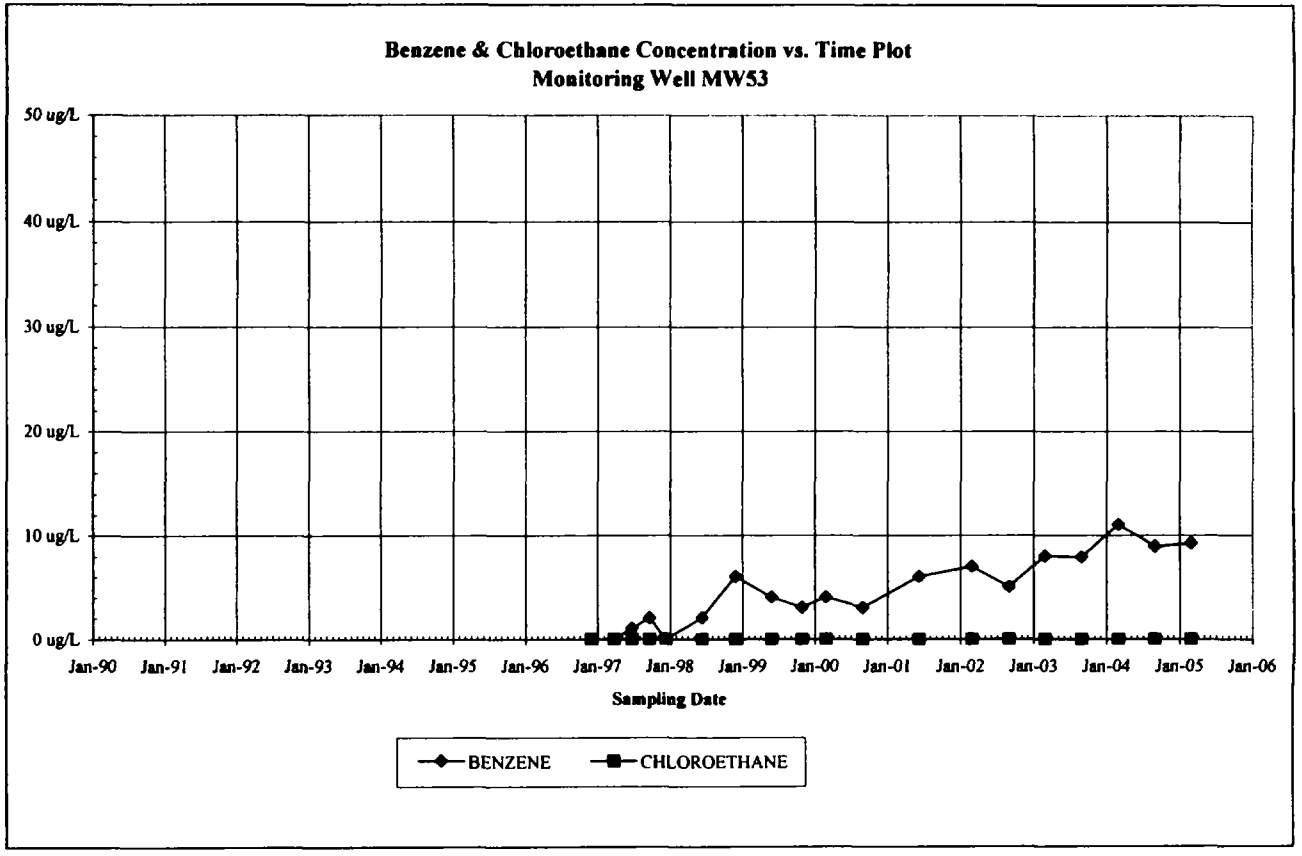
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW53

DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
January-95		
December-96	BDL	BDL
March-97	BDL	BDL
June-97	1 ug/L	BDL
September-97	2 ug/L	BDL
December-97	BDL	BDL
June-98	2 ug/L	BDL
December-98	6 ug/L	BDL
June-99	4 ug/L	BDL
November-99	3 ug/L	BDL
March-00	4 ug/L	BDL
September-00	3 ug/L	BDL
June-01	6 ug/L	BDL
March-02	7 ug/L	BDL
September-02	5 ug/L	BDL
March-03	8 ug/L	BDL
September-03	7.9 ug/L	BDL
March-04	11 ug/L	BDL
September-04	8.9 ug/L	BDL
March-05	9.2 ug/L	BDL

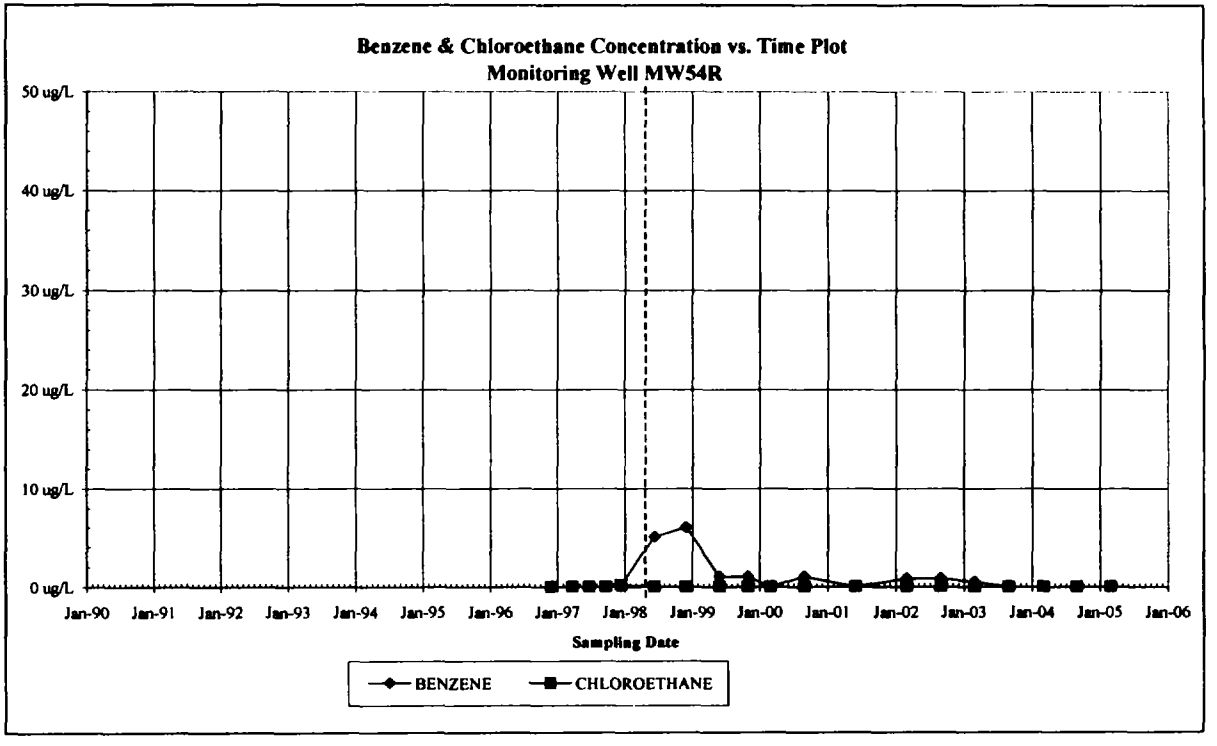
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW54R

DATE	BENZENE	CHLOROETHANE	
BASELINE	10	10	
August-89			
May-90			
January-95			
December-96	BDL	BDL	
March-97	BDL	BDL	
June-97	BDL	BDL	
September-97	BDL	BDL	
December-97	0.1 ug/L	0.2 ug/L	
June-98	5 ug/L	BDL	<- MW54R
December-98	6 ug/L	BDL	
June-99	1 ug/L	BDL	
November-99	1 ug/L	BDL	
March-00	BDL	BDL	
September-00	1 ug/L	BDL	
June-01	BDL	BDL	
March-02	1 ug/L	BDL	
September-02	1 ug/L	BDL	
March-03	0.5 ug/L	BDL	
September-03	BDL	BDL	
March-04	BDL	BDL	
September-04	BDL	BDL	
March-05	BDL	BDL	

BDL = Below the Detection Limit
MW54 was damaged by a vehicle and was replaced with MW54R

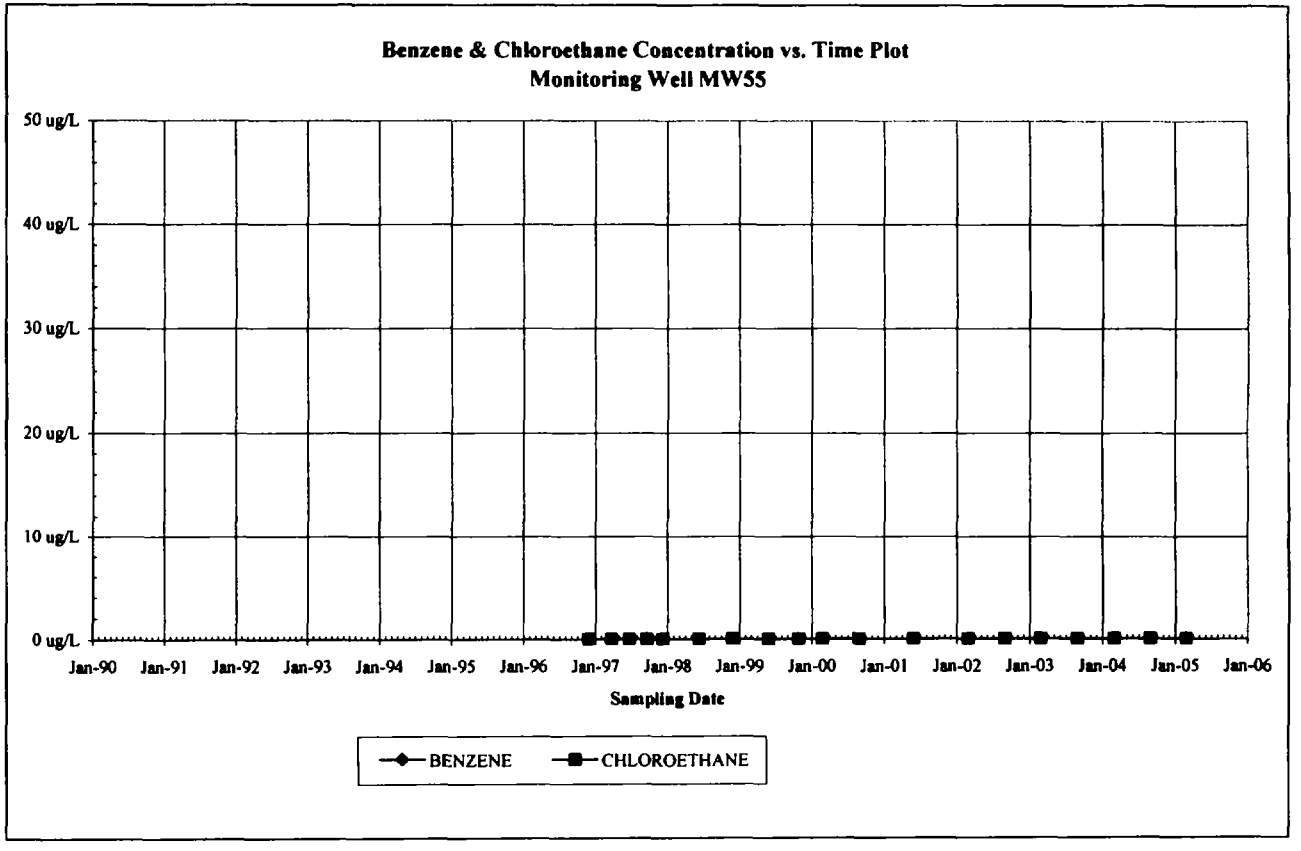


---------- Line indicates change to replacement well

Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW55

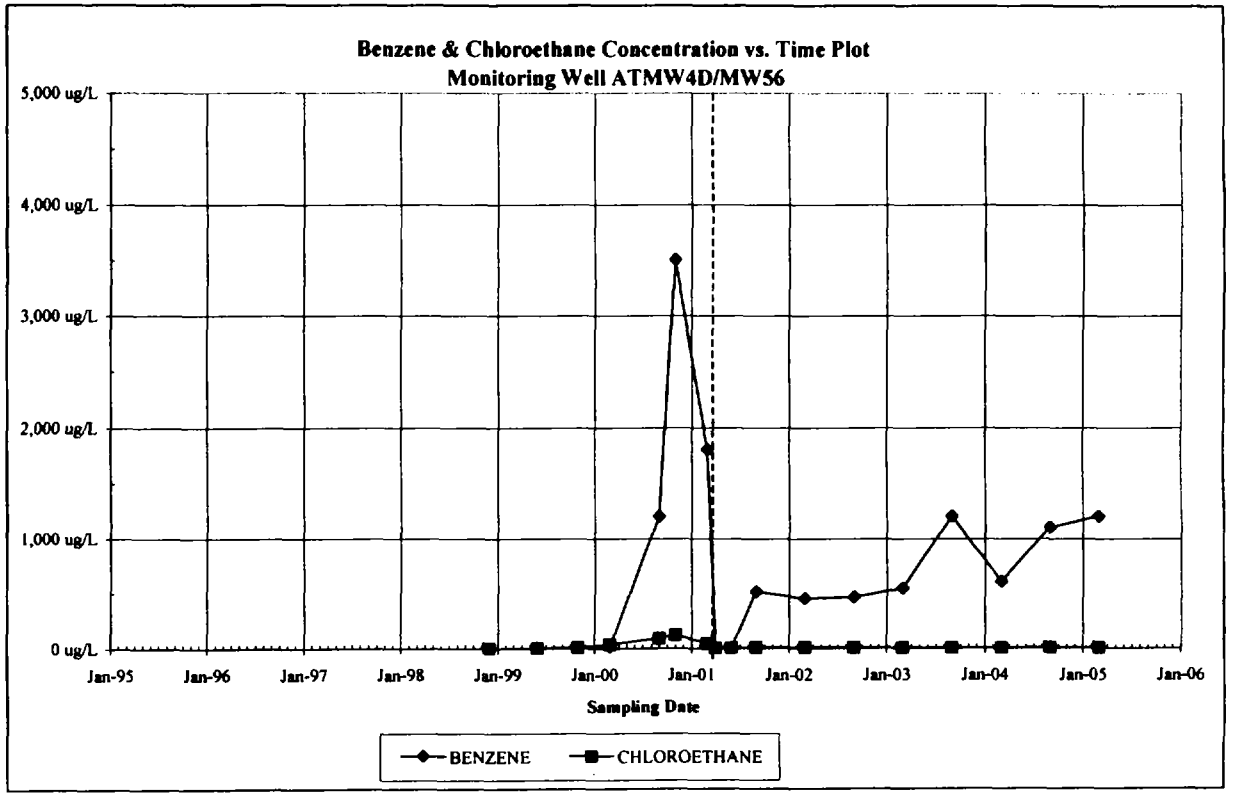
DATE	BENZENE	CHLOROETHANE
BASELINE	10	10
August-89		
May-90		
January-95		
December-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL

BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well ATMW4D-MW56

DATE	BENZENE	CHLOROETHANE	
BASELINE	-	-	
December-98	BDL	BDL	
June-99	BDL	BDL	
November-99	3 ug/L	9 ug/L	
March-00	12 ug/L	34 ug/L	
September-00	1,200 ug/L	88 ug/L	
November-00	3,500 ug/L	120 ug/L	
March-01	1,800 ug/L	42 ug/L	ATMW4D
April-01	BDL	BDL	MW56
June-01	BDL	BDL	
September-01	510 ug/L	10 ug/L	
March-02	450 ug/L	8 ug/L	
September-02	460 ug/L	6 ug/L	
March-03	540 ug/L	4 ug/L	
September-03	1,200 ug/L	BDL	
March-04	600 ug/L	BDL	
September-04	1,100 ug/L	7 ug/L	
March-05	1,200 ug/L	6.4 ug/L	



---------- Line indicates change to replacement wel

Appendix C

MWH

Appendix C
Laboratory Analytical Reports and Data Validation Narratives

Laboratory Analytical Reports
Volatile Organic Compounds - Form I
Sample Delivery Group (SDG) 6107
SDG 6108
SDG 6125

Semi-Volatile Organic Compounds - Form I
SDG 6108

Inorganics - Form I
SDG 6108

Data Validation Narratives
Volatile Organic Compounds
SDG 6107
SDG 6108
SDG 6125

Semi-Volatile Organic Compounds

Inorganics

Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Review

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 6107
CONTRACT # SW-846 8260B

SAMPLE IDENTIFICATIONS: ACSGWDUP01-25, ACSGWMW08-25, ACSGWMW11-25, ACSGWMW12-25, ACSGWMW13-25, ACSGWMW17-25, ACSGWMW23-25, ACSGWMW28-25, ACSGWMW31-25, ACSGWMW32-25, ACSGWMW37-25, ACSGWMW39-25, ACSGWMW42-25, ACSGWMW44-25, ACSGWMW45-25, ACSGWMW52-25, ACSGWMW54R-25, ACSGWMW55-25, ACSGWMW56-25, ACSGWMWEB01-25

The twenty (20) aqueous samples listed above were received intact, refrigerated at a temperature of 3.6°C, with proper documentation, on March 28, 2005. The samples were scheduled for the requested volatile analysis by method 8260B 5ml purge for the requested group of compounds.

The analysis holding time requirements were met for the samples. The pH values of these samples are included on the batch sheet.

None of the samples contained a compound above the Contract Required Quantitation Limit (CRQL) except samples ACSGWMW45-25, ACSGWDUP01-25, and ACSGWMW56-25. Sample ACSGWMW56-25 contained benzene above the initial calibration range. It was reanalyzed at the appropriate dilution. Both sets of data have been reported.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the system monitoring compounds met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples. The associated method blanks met all quality control criteria.

A laboratory control sample was analyzed with each batch for this SDG and they passed all QC criteria. Sample ACSGWMW13-25 was used to prepare the matrix spikes. They passed all QC criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Susan W Bass

Susan W. Bass
Senior Chemist
April 6, 2005

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW requires additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

In the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U: This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J: This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N: This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P: In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than a 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged with a B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on the Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds that are not detected in the sample analysis i.e., compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e., the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610705

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610705B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	2.3	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610705

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610705B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	12	
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	3.2	J
108-87-2	Methylcyclohexane	3.1	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWDUP01-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610705

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610705B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.06	13	J
2. 100-40-3	CYCLOHEXENE, 4-ETHENYL-	11.82	5.9	NJ
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
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23.				
24.				
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27.				
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29.				
30.				

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW08-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610710

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610710B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW08-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610710

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610710B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW08-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610710

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610710B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	5.79	17	NJ
2.		UNKNOWN	8.05	7.0	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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19.					
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22.					
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24.					
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28.					
29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW11-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610701

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610701B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW11-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610701

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610701B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW11-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610701

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610701B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.04	15	J
2.	91-20-3	NAPHTHALENE	16.66	22	NJ
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW12-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610702

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610702B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW12-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610702

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610702B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	3.2	J
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW12-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610702

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610702B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.58	30	J
2.	UNKNOWN	8.05	12	J
3.	LABORATORY ARTIFACT	10.98	5.4	JB
4.	LABORATORY ARTIFACT	13.21	11	J
5.	UNKNOWN	14.86	21	J
6. 91-20-3	NAPHTHALENE	16.67	5.6	NJ
7.				
8.				
9.				
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13.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW13-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610711

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610711B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW13-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610711

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610711B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW13-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610711

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610711B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.05	19	J
2.		LABORATORY ARTIFACT	13.21	7.1	J
3.					
4.					
5.					
6.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW13-25MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 64072

Sample wt/vol: 5 (g/ml) ML Lab File ID: 64072A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	51	
74-87-3	Chloromethane	58	
75-01-4	Vinyl Chloride	65	
74-83-9	Bromomethane	63	
75-00-3	Chloroethane	68	
75-69-4	Trichlorofluoromethane	52	
75-35-4	1,1-Dichloroethene	51	
75-15-0	Carbon disulfide	51	
76-13-1	1,1,2-trichloro-1,2,2-triflu	53	
67-64-1	Acetone	150	
75-09-2	Methylene Chloride	56	B
156-60-5	trans-1,2-Dichloroethene	52	
1634-04-4	Methyl-tert-butyl ether	59	
75-34-3	1,1-Dichloroethane	57	
156-59-2	cis-1,2-Dichloroethene	54	
78-93-3	2-butanone	160	
67-66-3	Chloroform	54	
71-55-6	1,1,1-Trichloroethane	52	
56-23-5	Carbon Tetrachloride	52	
71-43-2	Benzene	53	
107-06-2	1,2-Dichloroethane	58	
79-01-6	Trichloroethene	52	
78-87-5	1,2-Dichloropropane	61	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	57	
108-10-1	4-Methyl-2-pentanone	150	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	57	
79-00-5	1,1,2-Trichloroethane	57	
127-18-4	Tetrachloroethene	51	
591-78-6	2-hexanone	150	
124-48-1	Dibromochloromethane	54	
106-93-4	1,2-Dibromoethane	58	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW13-25MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 64072

Sample wt/vol: 5 (g/ml) ML Lab File ID: 64072A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	53	
100-42-5	Styrene	52	
75-25-2	Bromoform	55	
98-82-8	Isopropyl Benzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	56	
541-73-1	1,3-Dichlorobenzene	52	
106-46-7	1,4-Dichlorobenzene	52	
95-50-1	1,2-Dichlorobenzene	53	
96-12-8	1,2-Dibromo-3-Chloropropane	57	
120-82-1	1,2,4-Trichlorobenzene	54	
1330-20-7	Xylene (total)	160	
79-20-9	Methyl acetate	68	
110-82-7	Cyclohexane	54	
108-87-2	Methylcyclohexane	50	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW13-25MSD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 64073

Sample wt/vol: 5 (g/ml) ML Lab File ID: 64073A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	51	
74-87-3	Chloromethane	53	
75-01-4	Vinyl Chloride	61	
74-83-9	Bromomethane	63	
75-00-3	Chloroethane	64	
75-69-4	Trichlorofluoromethane	52	
75-35-4	1,1-Dichloroethene	52	
75-15-0	Carbon disulfide	52	
76-13-1	1,1,2-trichloro-1,2,2-triflu	52	
67-64-1	Acetone	160	
75-09-2	Methylene Chloride	56	B
156-60-5	trans-1,2-Dichloroethene	53	
1634-04-4	Methyl-tert-butyl ether	60	
75-34-3	1,1-Dichloroethane	58	
156-59-2	cis-1,2-Dichloroethene	56	
78-93-3	2-butanone	160	
67-66-3	Chloroform	54	
71-55-6	1,1,1-Trichloroethane	52	
56-23-5	Carbon Tetrachloride	52	
71-43-2	Benzene	54	
107-06-2	1,2-Dichloroethane	58	
79-01-6	Trichloroethene	52	
78-87-5	1,2-Dichloropropane	61	
75-27-4	Bromodichloromethane	55	
10061-01-5	cis-1,3-Dichloropropene	58	
108-10-1	4-Methyl-2-pentanone	150	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	58	
79-00-5	1,1,2-Trichloroethane	58	
127-18-4	Tetrachloroethene	50	
591-78-6	2-hexanone	150	
124-48-1	Dibromochloromethane	55	
106-93-4	1,2-Dibromoethane	59	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW13-25MSD

Lab Name: COMPUCHEM Method: 8260B

ab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 64073

ample wt/vol: 5 (g/ml) ML Lab File ID: 64073A59

Level: (low/med) LOW Date Received: 03/28/05

Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	53	
100-42-5	Styrene	52	
75-25-2	Bromoform	54	
98-82-8	Isopropyl Benzene	51	
79-34-5	1,1,2,2-Tetrachloroethane	58	
541-73-1	1,3-Dichlorobenzene	54	
106-46-7	1,4-Dichlorobenzene	54	
95-50-1	1,2-Dichlorobenzene	55	
96-12-8	1,2-Dibromo-3-Chloropropane	60	
120-82-1	1,2,4-Trichlorobenzene	55	
1330-20-7	Xylene (total)	160	
79-20-9	Methyl acetate	67	
110-82-7	Cyclohexane	54	
108-87-2	Methylcyclohexane	49	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW17-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610714

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610714B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	1.1	J
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW17-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610714

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610714B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW17-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610714

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610714B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.06	6.1	J
2. 934-74-7	BENZENE, 1-ETHYL-3,5-DIMETHY	14.97	5.4	NJ
3. 95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	15.36	10	NJ
4. 527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL	15.41	16	NJ
5.	UNKNOWN	15.90	7.7	J
6.				
7.				
8.				
9.				
10.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW23-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610712

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610712B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW23-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610712

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610712B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW23-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610712

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610712B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.36	64	J
2.		UNKNOWN	8.04	13	J
3.		LABORATORY ARTIFACT	13.21	6.7	J
4.					
5.					
6.					
7.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW28-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610713

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610713B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW28-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610713

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610713B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW28-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610713

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610713B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.04	19	J
2.		LABORATORY ARTIFACT	13.21	8.1	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW31-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610709

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610709B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW31-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610709

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610709B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW31-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610709

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610709B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1066-40-6	SILANOL, TRIMETHYL-	8.05	30	NJ
2.					
3.					
4.					
5.					
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7.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW32-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610708

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610708B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW32-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610708

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610708B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW32-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610708

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610708B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.83	5.3	J
2. 420-56-4	SILANE, FLUOROTRIMETHYL-	4.36	36	NJ
3.	UNKNOWN	8.05	16	J
4.	LABORATORY ARTIFACT	10.98	6.2	JB
5.	LABORATORY ARTIFACT	13.20	19	J
6.	LABORATORY ARTIFACT	14.84	5.5	JB
7.				
8.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW37-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610719

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610719A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW37-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610719

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610719A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW37-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610719

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610719A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW39-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610707

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610707B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	1.5	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	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW39-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610707

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610707B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW39-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610707

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610707B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.64	52	J
2.		UNKNOWN	8.04	7.4	J
3.		UNKNOWN	17.12	6.3	J
4.					
5.					
6.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW42-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610703

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610703B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW42-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610703

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610703B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW42-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610703

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610703B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.05	19	J
2.	541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	10.99	12	NJ
3.		LABORATORY ARTIFACT	13.21	33	J
4.		LABORATORY ARTIFACT	14.84	10	JB
5.					
6.					
7.					
8.					
9.					
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30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW44-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610706

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610706B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW44-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610706

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610706B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW44-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610706

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610706B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.67	44	J
2.	UNKNOWN	8.05	9.1	J
3.	LABORATORY ARTIFACT	13.21	10	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW45-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610704

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610704B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	2.4	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW45-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610704

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610704B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	12	
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	3.2	J
108-87-2	Methylcyclohexane	3.2	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW45-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610704

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610704B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.05	18	J
2.	100-40-3	CYCLOHEXENE, 4-ETHENYL-	11.82	5.9	NJ
3.		LABORATORY ARTIFACT	13.21	9.3	J
4.		LABORATORY ARTIFACT	14.84	5.4	JB
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW52-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610720

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610720A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW52-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610720

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610720A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW52-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610720

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610720A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.26	11	J
2. 60-29-7	ETHER	5.79	1900	NJ
3.	UNKNOWN	6.24	7.3	J
4.	UNKNOWN	6.89	8.1	J
5. 109-99-9	FURAN, TETRAHYDRO-	8.56	12	NJ
6.	UNKNOWN	8.90	5.5	J
7. 123-91-1	1,4-DIOXANE	9.99	5.6	NJ
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW54R-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610715

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610715B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW54R-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610715

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610715B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW54R-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610715

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610715B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.04	11	J
2.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW55-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610717

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610717B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	11	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW55-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610717

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610717B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW55-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610717

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610717B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.36	72	J
2.	UNKNOWN	8.05	27	J
3.				
4.				
5.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW56-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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	6.4	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	1000	E
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW56-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW56-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW56-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718DA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 8.3

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	42	U
74-87-3	Chloromethane	42	U
75-01-4	Vinyl Chloride	42	U
74-83-9	Bromomethane	42	U
75-00-3	Chloroethane	42	U
75-69-4	Trichlorofluoromethane	42	U
75-35-4	1,1-Dichloroethene	42	U
75-15-0	Carbon disulfide	42	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	42	U
67-64-1	Acetone	96	DJB
75-09-2	Methylene Chloride	42	U
156-60-5	trans-1,2-Dichloroethene	42	U
1634-04-4	Methyl-tert-butyl ether	42	U
75-34-3	1,1-Dichloroethane	42	U
156-59-2	cis-1,2-Dichloroethene	42	U
78-93-3	2-butanone	100	U
67-66-3	Chloroform	42	U
71-55-6	1,1,1-Trichloroethane	42	U
56-23-5	Carbon Tetrachloride	42	U
71-43-2	Benzene	1200	D
107-06-2	1,2-Dichloroethane	42	U
79-01-6	Trichloroethene	42	U
78-87-5	1,2-Dichloropropane	42	U
75-27-4	Bromodichloromethane	42	U
10061-01-5	cis-1,3-Dichloropropene	42	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	42	U
10061-02-6	trans-1,3-Dichloropropene	42	U
79-00-5	1,1,2-Trichloroethane	42	U
127-18-4	Tetrachloroethene	42	U
591-78-6	2-hexanone	100	U
124-48-1	Dibromochloromethane	42	U
106-93-4	1,2-Dibromoethane	42	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW56-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718DA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 8.3

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	42	U
100-41-4	Ethylbenzene	42	U
100-42-5	Styrene	42	U
75-25-2	Bromoform	42	U
98-82-8	Isopropyl Benzene	42	U
79-34-5	1,1,2,2-Tetrachloroethane	42	U
541-73-1	1,3-Dichlorobenzene	42	U
106-46-7	1,4-Dichlorobenzene	42	U
95-50-1	1,2-Dichlorobenzene	42	U
96-12-8	1,2-Dibromo-3-Chloropropane	42	U
120-82-1	1,2,4-Trichlorobenzene	42	U
1330-20-7	Xylene (total)	42	U
79-20-9	Methyl acetate	42	U
110-82-7	Cyclohexane	42	U
108-87-2	Methylcyclohexane	42	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW56-25DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718DA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 8.3

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.46	48	JD
2.					
3.					
4.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMWEB01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610716

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610716B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.9	J
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	U
108-88-3	Toluene	1.5	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMWEB01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610716

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610716B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMWEB01-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610716

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610716B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.56	55	J
2.	UNKNOWN	8.05	5.2	J
3.				
4.				
5.				
6.				
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FORM I VOA-TIC

CompuChem
A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 6108
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS:

ACSGWDUP02-25	ACSGWMW09R-25	ACSGWMW29-25	ACSGWMW49-25
ACSGWDUP03-25	ACSGWMW10C-25	ACSGWMW30-25	ACSGWMW51-25
ACSGWEB02-25	ACSGWMW14-25	ACSGWMW33-25	ACSGWMW53-25
ACSGWEB03-25	ACSGWMW15-25	ACSGWMW43-25	ACSGWTB01-25
ACSGWMW06-25	ACSGWMW19-25	ACSGWMW48-25	

The 19 aqueous samples listed above were received intact, properly refrigerated, with proper documentation, in sealed shipping containers, on March 28 through 30, 2005. The samples were scheduled for the requested analyses of the volatile fraction. SW-846, 3rd Edition, Update 3, Method 8260B were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. This portion of the SDG narrative deals with the volatile fractions only. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for SDG # 6108 are included in the sample data sections.

Volatiles

Analysis holding time requirements were met for all of these samples.

The volatile project analytes chloroethane and benzene were identified above the Quantitation Limit (QL) in some of these samples. Tentatively Identified Compounds (TICs) were found in some of these samples.

In the initial 5 mL purge analysis of samples ACSGWMW10C-25 and ACSGWMW48-25, the on-column amount of benzene exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. These samples were reanalyzed using a smaller aliquot of raw sample to bring the on-column amount into range. We have reported both analyses of these samples.

Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the internal standards met response and retention time criteria in the analyses of these samples.

All the associated method blanks met all quality control criteria. The method blanks contained levels of target analytes within acceptance criteria.

Sample ACSGWMW06-25 was used as the original to prepare the duplicate matrix spikes (MS/MSD). The associated duplicate matrix spikes met all accuracy and precision criteria. The RPD of napthalene did not meet criteria in the comparison of the MS and MSD.

All the associated Laboratory Control Samples (LCS) met all accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Elsie S. Byrd
Senior Scientist I
April 13, 2005

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610803

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610803RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	8.4	
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610803

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610803RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWDUP02-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610803

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610803RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.23	12	J
2.		UNKNOWN	6.88	8.8	J
3.	646-06-0	1,3-DIOXOLANE	8.35	7.1	NJ
4.	109-99-9	FURAN, TETRAHYDRO-	8.55	17	NJ
5.	123-91-1	1,4-DIOXANE	9.97	18	NJ
6.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610811

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610811A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610811

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610811A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610811

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610811A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610808

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610808A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610808

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610808A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWEB02-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610808

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610808A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.06	7.6	J
2.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610813

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610813A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610813

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610813A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610813

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610813A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.04	15	J
2.				
3.				
4.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610812

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610812A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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	3.0	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610812

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610812A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610812

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610812A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.04	5.3	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW09R-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610814

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610814A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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	3.8	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	6.8	
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW09R-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610814

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610814A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW09R-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610814

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610814A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	60-29-7	ETHER	5.78	6.3	NJ
2.		UNKNOWN	8.04	6.1	J
3.		UNKNOWN	9.18	11	J
4.					
5.					
6.					
7.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW10C-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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	25	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	350	E
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW10C-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW10C-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	4.52	7.5	J
2.	UNKNOWN	5.03	13	J
3. 60-29-7	ETHER	5.81	110	NJ
4.				
5.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW10C-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
75-15-0	Carbon disulfide	13	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U
67-64-1	Acetone	31	U
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-butanone	31	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	260	D
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	31	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	31	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW10C-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW10C-25DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHER	1.82	110	NJD
2.				
3.				
4.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW14-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610815

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610815A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	1.2	J
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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW14-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610815

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610815A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW14-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610815

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610815A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW15-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610809

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610809A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	0.88	J
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW15-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610809

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610809A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW15-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610809

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610809A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.04	6.0	J
2. 83-32-9	ACENAPHTHENE	13.98	14	NJ
3. 132-64-9	DIBENZOFURAN	14.86	12	NJ
4.	UNKNOWN	16.90	8.0	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW19-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610810

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610810A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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	15	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	4.8	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW19-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610810

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610810A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW19-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610810

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610810A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHER	5.79	6.6	NJ
2.	UNKNOWN	8.04	5.3	J
3.				
4.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW29-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610816

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610816A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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	80	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	6.3	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW29-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610816

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610816A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW29-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610816

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610816A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW30-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610805

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610805A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	2.4	J
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW30-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610805

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610805A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW30-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610805

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610805A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		*UNKNOWN*	6.25	5.0	J
2.	123-91-1	1,4-DIOXANE	9.99	6.0	NJ
3.					
4.					
5.					
6.					
7.					
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9.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW33-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610804

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610804A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	9.0	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW33-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610804

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610804A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW33-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610804

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610804A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.89	5.3	J
2.	UNKNOWN	8.06	5.7	J
3. 646-06-0	1,3-DIOXOLANE	8.36	6.5	NJ
4. 109-99-9	FURAN, TETRAHYDRO-	8.56	110	NJ
5.	UNKNOWN	9.03	6.1	J
6. 123-91-1	1,4-DIOXANE	9.98	13	NJ
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW43-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610801

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610801A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW43-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610801

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610801A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW43-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610801

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610801A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW48-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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	19	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	330	E
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW48-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW48-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW48-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
75-15-0	Carbon disulfide	13	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U
67-64-1	Acetone	31	U
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-butanone	31	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	290	D
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	31	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	31	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW48-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW48-25DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW49-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610818

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610818RA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(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	5.9	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	89	
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW49-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610818

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610818RA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW49-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610818

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610818RA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW51-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610806

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610806A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW51-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610806

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610806A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW51-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610806

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610806A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHER	5.81	1400	NJ
2.	UNKNOWN	6.89	8.6	J
3.	UNKNOWN	8.05	7.1	J
4. 109-99-9	FURAN, TETRAHYDRO-	8.56	6.6	NJ
5. 123-91-1	1,4-DIOXANE	9.99	8.8	NJ
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW53-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610802

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610802RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	9.2	
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW53-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610802

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610802RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW53-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610802

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610802RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.22	13	J
2.		UNKNOWN	6.87	9.6	J
3.	646-06-0	1,3-DIOXOLANE	8.35	7.6	NJ
4.	109-99-9	FURAN, TETRAHYDRO-	8.55	18	NJ
5.	123-91-1	1,4-DIOXANE	9.97	19	NJ
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWTB01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610807

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610807A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWTB01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610807

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610807A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWTB01-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610807

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610807A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.06	7.2	J
2.					
3.					
4.					
5.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 64430

Sample wt/vol: 5 (g/ml) ML Lab File ID: 64430A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	43	
74-87-3	Chloromethane	64	
75-01-4	Vinyl Chloride	78	
74-83-9	Bromomethane	71	
75-00-3	Chloroethane	84	
75-69-4	Trichlorofluoromethane	50	
75-35-4	1,1-Dichloroethene	42	
75-15-0	Carbon disulfide	47	
76-13-1	1,1,2-trichloro-1,2,2-triflu	43	
67-64-1	Acetone	160	B
75-09-2	Methylene Chloride	52	
156-60-5	trans-1,2-Dichloroethene	45	
1634-04-4	Methyl-tert-butyl ether	57	
75-34-3	1,1-Dichloroethane	58	
156-59-2	cis-1,2-Dichloroethene	49	
78-93-3	2-butanone	170	
67-66-3	Chloroform	51	
71-55-6	1,1,1-Trichloroethane	46	
56-23-5	Carbon Tetrachloride	43	
71-43-2	Benzene	51	
107-06-2	1,2-Dichloroethane	58	
79-01-6	Trichloroethene	43	
78-87-5	1,2-Dichloropropane	62	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	52	
108-10-1	4-Methyl-2-pentanone	160	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	55	
79-00-5	1,1,2-Trichloroethane	52	
127-18-4	Tetrachloroethene	40	
591-78-6	2-hexanone	160	
124-48-1	Dibromochloromethane	47	
106-93-4	1,2-Dibromoethane	51	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 64430

Sample wt/vol: 5 (g/ml) ML Lab File ID: 64430A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	46	
100-42-5	Styrene	41	
75-25-2	Bromoform	43	
98-82-8	Isopropyl Benzene	44	
79-34-5	1,1,2,2-Tetrachloroethane	60	
541-73-1	1,3-Dichlorobenzene	46	
106-46-7	1,4-Dichlorobenzene	47	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-Chloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	46	
1330-20-7	Xylene (total)	140	
79-20-9	Methyl acetate	70	
110-82-7	Cyclohexane	51	
108-87-2	Methylcyclohexane	45	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25MSD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 64431

Sample wt/vol: 5 (g/ml) ML Lab File ID: 64431A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	42	
74-87-3	Chloromethane	56	
75-01-4	Vinyl Chloride	71	
74-83-9	Bromomethane	67	
75-00-3	Chloroethane	78	
75-69-4	Trichlorofluoromethane	48	
75-35-4	1,1-Dichloroethene	41	
75-15-0	Carbon disulfide	46	
76-13-1	1,1,2-trichloro-1,2,2-triflu	42	
67-64-1	Acetone	160	B
75-09-2	Methylene Chloride	50	
156-60-5	trans-1,2-Dichloroethene	45	
1634-04-4	Methyl-tert-butyl ether	55	
75-34-3	1,1-Dichloroethane	55	
156-59-2	cis-1,2-Dichloroethene	47	
78-93-3	2-butanone	160	
67-66-3	Chloroform	50	
71-55-6	1,1,1-Trichloroethane	45	
56-23-5	Carbon Tetrachloride	43	
71-43-2	Benzene	50	
107-06-2	1,2-Dichloroethane	57	
79-01-6	Trichloroethene	42	
78-87-5	1,2-Dichloropropane	60	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	160	
108-88-3	Toluene	47	
10061-02-6	trans-1,3-Dichloropropene	53	
79-00-5	1,1,2-Trichloroethane	51	
127-18-4	Tetrachloroethene	40	
591-78-6	2-hexanone	160	
124-48-1	Dibromochloromethane	46	
106-93-4	1,2-Dibromoethane	50	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25MSD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 64431

Sample wt/vol: 5 (g/ml) ML Lab File ID: 64431A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	47	
100-42-5	Styrene	40	
75-25-2	Bromoform	42	
98-82-8	Isopropyl Benzene	46	
79-34-5	1,1,2,2-Tetrachloroethane	57	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	47	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-Chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	46	
1330-20-7	Xylene (total)	140	
79-20-9	Methyl acetate	67	
110-82-7	Cyclohexane	51	
108-87-2	Methylcyclohexane	46	

FORM I VOA

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG # 6125
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: ACSGWDUP04-25, ACSGWEB04-25, ACSGWTB02-25

The samples listed above were received intact, refrigerated at a temperature of 4.6°C, with proper documentation, in sealed shipping containers, on March 30, 2005. The samples were scheduled for the requested analysis of the volatile fraction. SW-846, 3rd Edition, Update 3, Method 8260B was used to analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for this SDG are included in the sample data sections. This narrative pertains to the volatile fraction only.

VOLATILES:

Analysis holding time requirements were met for each sample. Various volatile Target Compound List (TCL) analytes were identified above the Contract Required Quantitation Limit (CRQL) in the samples. Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG. Each sample also had one TIC detected.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the system monitoring compounds met recovery criteria in the analyses of the sample. All of the internal standards met response and retention time criteria in the analyses of the sample. The associated method blanks met all quality control criteria. The Laboratory Control Samples (LCS) met all recovery criteria. A matrix spike/matrix spike duplicate sample was not designated or performed for this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Katrina L. Travis
Director, Laboratory Operations
April 13, 2005

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP04-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612501

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612501A61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

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

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	13	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	330	E
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP04-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612501

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612501A61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP04-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612501

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612501DR61

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
75-15-0	Carbon disulfide	13	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U
67-64-1	Acetone	31	U
75-09-2	Methylene Chloride	5.5	DJ
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-butanone	31	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	290	D
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	31	U
108-88-3	Toluene	3.0	DJ
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	31	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP04-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612501

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612501DR61

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB04-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612502

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612502A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	8.5	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB04-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612502

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612502A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWTB02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612503

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612503A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWTB02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612503

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612503A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

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a division of Liberty Analytical Corporation
501 Madison Avenue
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SDG NARRATIVE
SDG # 6108
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS:

ACSGWDUP03-25 ACSGWMW06-25 ACSGWMW19-25
ACSGWEB03-25 ACSGWMW09R-25

The five water samples listed above were received intact, properly refrigerated, with proper documentation, in sealed shipping containers, on March 30, 2005. The client was contacted, and the laboratory was instructed to proceed with the analyses. These samples were scheduled for the requested analyses of the semivolatile fraction. SW-846, 3rd Edition, Update 3, Separatory Funnel extraction (Method 3510C), and Method 8270C were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. The client requested for the analysis of the analyte bis(2-chloroethyl)ether (BCEE) only. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # 6108 are included in the sample data sections.

Semivolatile

Extraction and analysis holding time requirements were met for these samples.

The semivolatile project analyte BCEE was identified above the Quantitation Limit (QL) in sample ACSGWMW19-25

Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Tailing factor criteria were met for pentachlorophenol and benzidine. The breakdown criterion was met for DDT. These three compounds have been added to the DFTPP solution and analyzed together. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the surrogates met recovery and retention time criteria in the analyses of these samples.

All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blank met all quality control criteria.

Sample ACSGWMW06-25 was used as the original to prepare the duplicate matrix spikes (MS/MSD) as requested. The associated MS/MSD met all accuracy and precision criteria.

The associated Laboratory Control Sample (LCS) prepared and analyzed along with these samples met overall accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Elsie S. Byr

Elsie S. Byrd
Senior Scientist I
April 12, 2005

Laboratory Notice

Calibration Date(s): 07-MAR-2005 13:53 07-MAR-2005 16:55

Instrument ID: 5972hp64

An initial calibration was analyzed by Method 8270C. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the initial calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8270C, Sec. 7.3.7.1, and Method 8000B, Section 7.5.1.2, we are providing a list of the compounds which failed to meet the limit, and their associated %RSDs. Finally, the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Compound Name	RSD
Pyridine	28.3
Caprolactam	23.9
N-Nitrosodiphenylamine	17.1
Pentachlorophenol	23.8
Benzo(k)fluoranthene	21.8

Average %RSD for all compounds in the Initial Calibration: 7.3 %

Data Reviewer/ID: F. Naegler / 2319

Date: 3/8/05

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer

Robert E. Meierer
Vice President

Revision 6 (3/25/02)

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610811

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610811A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY ·Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610813

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610813A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610812

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610812JA64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW09R-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610814

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610814A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	8.0	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW19-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610810

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610810A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	19	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25MS

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 64399

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 64399A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	65	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25MSD

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 64400

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 64400A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	61	

SW846-METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 6108

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
ACSGWDUP03-25	610811
ACSGWEB03-25	610813
ACSGWMW06-25	610812
ACSGWMW06-25D	64496 DUP
ACSGWMW06-25S	64497 MS
ACSGWMW06-25SD	64498 MSD
ACSGWMW15-25	610809
ACSGWMW43-25	610801

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Susan W. Bass

Date: _____ Title: Senior Chemist

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

SDG NARRATIVE
SDG # 6108

The indicated Sample Delivery Group (SDG) consisting of five (5) water samples were received into the laboratory information management system (LIMS) on March 28, 2005 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 2.2 to 3.7°C. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed, in accordance with SW846 methodology for arsenic only as requested.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike and matrix spike duplicate, CCN = 610812 ID ACSGWMW06-25S and ACSGWMW06-25SD were inside control limits for the requested analyte.

Control limits for matrix spikes recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more. In this case, affected analytes are not flagged even if recoveries are outside percentage recovery control limits.

The sample matrix duplicate, CCN = 610812 ID ACSGWMW06-25D was inside control limits for the requested analyte.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 610812 ID ACSGWMW06-25L was performed in accordance with requirements for ICP analysis.

The adjusted sample concentrations were inside control limits for the requested analyte.

Control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Susan W Bass

Susan W. Bass
Senior Chemist
April 8, 2005

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).

N: This flag indicates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

The extensions: D, S, SD, L. A, added to the end of the client ID represent as follows:

D: matrix duplicate
S: matrix spike
SD: matrix spike duplicate
L: serial dilution
A: post digestion spike

Method Codes:

P: ICP PLASMA
CV: MERCURY COLD VAPOR AA
CA: MIDI-DISTILLATION SPECTROPHOTOMETRIC

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610811

Level (low/med): LOW Date Received: 3/30/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610813

Level (low/med): LOW Date Received: 3/30/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610812

Level (low/med): LOW Date Received: 3/30/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW15-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610809

Level (low/med): LOW Date Received: 3/30/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	13.2			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW43-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610801

Level (low/med): LOW Date Received: 3/28/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	11.1			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

LDC #13397
May 2, 2005

MWH Americas, Inc.
175 West Jackson Blvd, Suite 1900
Chicago, IL 60604-2814
ATTN: Mr. Chad Smith

SUBJECT: ACS-89, Data Validation

Dear Mr. Smith,

SUBJECT: Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Summary Report for the ACS-89 Project

Enclosed is the Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Summary Report for the ACS-89 project.

We appreciate this opportunity to support MWH Americas, Ic. in the performance of this project. Please feel free to call me at (760) 634-0437 if you have any questions.

Please feel free to contact us if you have any questions.

Sincerely,

Erlinda T. Rauto
Operations Manager/Senior Chemist

V:\LOGIN\MWH\ACS\13397COVP.wpd

PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, COMPLETENESS SUMMARY REPORT

American Chemical Service

4/29/05

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Glossary

CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
DQO	Data Quality Objectives
IDL	Instrument Detection Limit
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
mg/Kg	Milligrams per Kilogram
MS/MSD	Matrix Spike / Matrix Spike Duplicate
PARCC	Precision,Accuracy,Representativeness,Comparability, Completeness
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance / Quality Control
RPD	Relative Percent Difference
RRF	Relative Response Factor
RL	Reporting Limit
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
ug/Kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation

PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, COMPLETENESS SUMMARY REPORT
American Chemical Service

1.0 INTRODUCTION

Remedial design/ remedial action was conducted at the American Chemical Service, Inc. NPL Site in Griffith, Indiana. This part of the site investigation included the collection and analyses of 32 groundwater monitoring wells and quality control (QC) samples. The analyses were performed by the following methods:

Volatile Organics by EPA SW 846 Method 8260B
Bis(2-chloroethyl)ether by EPA SW 846 Method 8270C
Arsenic by EPA SW 846 Method 6010B

Analytical services were provided by Compuchem who performed analyses on the groundwater samples. The samples were grouped into sample delivery groups (SDGs) of up to 20 field samples received by the laboratory. The environmental samples are associated with QA/QC samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I in Appendix A is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, and matrix. All shaded samples in Table I in Appendix A were reviewed under EPA Level 4 guidelines.

Approximately ten percent of the analytical data were validated according to EPA Level 4 data validation procedures and ninety percent of the analytical data were validated according to EPA Level 3 data validation procedures. The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: *The Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan,* November 2001, *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, February 1994, and the *EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste.*

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, and comparability (PARCC) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The PARCC summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCC criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 8 presents a summary of the PARCC criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. Qualitative PARCC criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors in sample data may result from incomplete equipment

decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: trip blanks, equipment rinsate blanks, field duplicates, method blanks, laboratory control samples (LCSs), surrogate spikes, matrix spike/matrix spike duplicates (MS/MSDs), and laboratory duplicates.

Before conducting the PARCC evaluation, the analytical data were validated according to the *Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan,* November 2001, and the Functional Guidelines for Organic Data Review (USEPA 1999) and Inorganic Data Review (USEPA, 1994) and EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste. Samples not meeting the project procedures manual and the Functional Guideline acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

J — Estimated The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.

R — Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.

UB — Analyte was not detected at or above the indicated concentration due to blank contamination. The "UB" flag is used to qualify any result detected in an environmental sample at a concentration less than 10 times the value of the concentration in any associated blank for common laboratory contaminants and less than 5 times the concentration in any associated blank for all other contaminants

B — Analyte was positively detected in a sample and in an associated blank. The "B" flag is used to to qualify any result detected in an environmental sample at a concentration greater than 10 times the value of the concentration in any associated blank for common laboratory contaminants and greater than 5 times the concentration in any associated blank for all other contaminants

UJ — Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, internal standard, or other spike recovery.

Once the data are reviewed and qualified according to the *Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan,* November 2001 and the functional guidelines, the data set is then evaluated using PARCC

criteria. PARCC criteria provide an evaluation of overall data usability. The following is a discussion of PARCC criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data. Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where D1 and D2 are the reported concentrations for sample and duplicate analyses. Precision is primarily assessed by calculating an RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. Non-aqueous LCSs are prepared using solid media approved by the American Society for Testing and Materials (ASTM) for their homogeneity. The LCS measures laboratory efficiency in recovering target analytes from either a solid or aqueous matrix in the absence of matrix interferences.

For inorganics analysis, one primary sample is analyzed and accompanied by an unspiked laboratory duplicate. The data reviewer compares the reported results of the primary analysis and the laboratory duplicate, then calculates RPDs, which are used to assess laboratory precision.

Laboratory and field sampling precision are further evaluated by calculating RPDs for aqueous field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in either MS/MSD samples or LCS/LCSD indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the reporting limit or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation,

analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, MS/MSD, and standard, for volatile organic (VOC), semivolatile (SVOC), chlorinated pesticides and polychlorinated biphenyl (PCBs) analyses. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:
A = measured concentration in the spiked sample
B = measured concentration of the spike compound in the unspiked sample
C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS, and surrogate compounds added to environmental samples is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blank samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, equipment rinsate blanks, and trip blanks.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis. Additionally, for inorganic analyses, initial and continuing calibration blanks consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Contaminants found in both the environmental sample and a blank sample are assumed to be laboratory artifacts if the concentration in the environmental sample is less than 10 times the blank value for common laboratory contaminants; methylene chloride, acetone, 2-butanone, and phthalate esters or 5 times the blank value for other laboratory contaminants.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedances can cause loss of sample constituents due to biodegradation, precipitation, volatization, and chemical degradation.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCC criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 95 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

where:
%C = percent completeness
T = total number of sample results
R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the FSP or QAPP, with the number determined above.

The following sections present a review of QC data for each analytical method.

2.0 VOLATILE ORGANIC COMPOUNDS

A total of forty six water samples including dilutions were analyzed for volatile organic compounds (VOC) by EPA SW 846 Method 8260B. All volatile data were assessed to be valid since none of the 2208 total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 *Instrument Calibration*

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Relative response factor (RRF), percent relative standard deviation (%RSD), and percent difference (%D) are the three major parameters used to measure the effectiveness

of instrument calibration. RRF is a measure of the relative spectral response of an analyte compared to its internal standard. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The relative response factors for these compounds were within acceptance criteria for of 0.05 in the initial calibration and/or the continuing calibration standards

Forty nine VOC results were qualified detected estimated (J) and non-detected estimated (UJ). The percent difference between the initial calibration mean relative response factors and the continuing calibration relative response factors for methyl acetate, chloromethane, bromomethane and dichlorodifluoromethane were outside the acceptance criteria of 25 percent. The affected samples are identified in the data validation reports.

2.1.2 Surrogates

Fourteen VOC results were qualified detected estimated (J). The surrogate percent recovery for bromoflourobenzene and 1,2-dichloroethane-d4 were outside the acceptance criteria. The details regarding the qualification of results are provided in the data validation reports.

2.1.3 MS/MSD Samples

No data were qualified based on MS/MSD nonconformances. For those SDGs with MS/MSD results, the recoveries were evaluated against the acceptance criteria.

2.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

2.1.5 Internal Standards

No data were qualified based on internal standard nonconformances. The recoveries and retention times were evaluated against the acceptance criteria.

2.1.6 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

2.1.7 Compound Quantitation and Target Identification

All compound quantitation and target identification was found to be acceptable.

Four VOC results were qualified detected estimated (J). Benzene results were reported above the calibration range. The details regarding the qualification of results are provided in the data validation reports.

2.2 Representativeness

2.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

2.2.2 Blanks

Method blanks and trip blanks were collected and analyzed to evaluate representativeness. The concentration for an individual target compounds in any of the three types of QA/QC blanks were used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results for organic compounds based on the following criteria. The validation qualifier codes used in the blank summary tables are described below.

> Results Below the RL If a sample result for the blank contaminant was less than the RL and less than 10 times the blank value for common contaminants or 5 times the blank value for other contaminants, the sample result was amended as a non-detected at the RL for the target compound and qualified with UB
>
> Results Above the RL If a sample result for the blank contaminant was greater than the sample RL and less than 10 times the blank value for common contaminants or 5 times the blank value for other contaminants, the sample result for the blank contaminant was amended as a non-detect at the concentration reported in the sample results and qualified with UB.
>
> If a sample result for the blank contaminant was greater than 10 times the blank value for common contaminants or 5 times the blank value for other contaminants, the result was not amended and qualified with B.

2.2.2.1 Method Blanks

As a result of method blank contamination, three acetone results and five lab artifacts were qualified as non-detected (UB). The details regarding the qualification of results are provided in the data validation reports.

2.2.2.2 Trip Blanks and Equipment Balanks

No QC issues were associated with the trip and equipment blanks for this analysis.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target compounds detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

2.4 Completeness

The completeness level attained for volatile organic field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.0 Bis(2-chloroethyl)ether

A total of five water samples were analyzed for bis(2-chloroethyl)ether by EPA SW 846 Method 8270C. All data were assessed to be valid since none of the 5 total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

As previously discussed in Section 2.1.1, initial and continuing calibration results provide a means of evaluating accuracy.

No data were qualified based on initial and continuing calibrations.

3.1.2 Surrogates

No data were qualified based on surrogate recovery nonconformances. In cases where individual recoveries exceeded criteria, the QC exceedance was judged to have no impact on the data quality and no qualifications were made.

3.1.3 MS/MSD Samples

No data were qualified based on MS/MSD nonconformances. For those SDGs with MS/MSD results, the recoveries were evaluated against the acceptance criteria.

3.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

3.1.5 Internal Standards

No data were qualified based on internal standard nonconformances. The recoveries and retention times were evaluated against the acceptance criteria.

3.1.6 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

3.1.8 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

3.2 Representativeness

3.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

3.2.2 Blanks

As previously discussed in Section 2.2.2, method blanks, equipment rinsate blanks, and field blanks were analyzed to evaluate representativeness.

3.2.2.1 Method Blanks

No QC issues were associated with the method blanks for this analysis.

3.2.2.2 Equipment Rinsate and Field Blanks

No equipment rinsate and field blanks were associated with this group of samples for this analysis.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target compounds detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

3.4 Completeness

The completeness level attained for bis(2-chloroethyl)ether field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

4.0 Arsenic

A total of five water samples were analyzed for arsenic by EPA SW 846 Method 6010B. All data were assessed to be valid since none of the five total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

4.1 Precision and Accuracy

4.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the on going calibration acceptability of the analytical system. The most critical of the two calibration parameters, r, has the potential to affect data accuracy across an SDG when it is outside the

acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations and/or percent recoveries in the continuing calibration verifications were within the acceptance criteria of ≥ 0.995 and 90-110 percent, respectively.

4.1.2 MS Samples

No data were qualified based on MS nonconformances For those SDGs with MS results, the recoveries were evaluated against the acceptance criteria.

4.1.3 Duplicate (DUP) Samples

No data were qualified based on duplicate nonconformances. For those SDGs with DUP results, the relative percent differences/differences were evaluated against the acceptance criteria. In cases where RPDs or differences exceeded criteria, the QC exceedance was judged to have no impact on the data quality and no qualifications were made.

4.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

4.1.5 ICP Serial Dilution

ICP serial dilution was not required by the method.

4.1.6 ICP Interference Check Sample

No data were qualified based on interference check sample nonconformances. All recoveries were evaluated against the acceptance criteria.

4.1.7 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

4.1.8 Sample Result Verification

All sample results were found to be acceptable.

4.2 Representativeness

4.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

4.2.2 Blanks

Method blanks and field blanks were collected and analyzed to evaluate representativeness. The concentration for an individual target compounds in any of the three types of QA/QC blanks were used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results for inorganic analytes based on the following criteria. The validation qualifier codes are described below.

> Results Above and Below the RL If a sample result for the blank contaminant was less than or greater than the RL and less than 5 times the blank value, the sample result was amended as a non-detected for the target compound and qualified with UB
>
> If a sample result for the blank contaminant was greater than 5 times the blank value, the result was not amended and qualified with B.

4.2.2.1 Method Blanks

No QC issues were associated with the method blanks for this analysis.

4.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target analytes detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

4.4 Completeness

The completeness level attained for metal field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

5.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted according to the laboratory SOW.

6.0 SUMMARY OF PARCC CRITERIA

The validation reports present the PARCC results for all SDGs. Each PARCC criterion is discussed in detail in the following sections.

6.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as MS/MSD, LCS, and surrogates. The precision and accuracy of the data set were considered acceptable after integration of qualification of estimated results as specifically noted in the data validation reports.

6.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable after qualification for blank contamination.

6.3 Comparability

Sampling frequency requirements were met in obtaining duplicates and necessary field blanks. The laboratory used standard analytical methods for their analyses. The analytical results were reported in correct standard units. Holding times, sample preservation, and sample integrity were within QC criteria. The overall comparability is considered acceptable.

6.4 Completeness

Of the 2074 total analytes reported, none of the sample results were rejected. The completeness for all SDGs is as follows:

Parameter/Method	Total Analytes	No. of Rejects	%Completeness
Volatiles	2208	0	100
Bis(2-chloroethyl)ether	5	0	100
Arsenic	5	0	100
Total	**2218**	**0**	**100**

The completeness percentage based on rejected data met the 95 percent DQO goal. A less quantifiable loss of data occurred in the application of blank qualifications.

ACS-89
Data Validation Reports
LDC# 13397

Bis(2-chloroethyl)ether

LDC Report# 13397B2

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: March 28, 2005

LDC Report Date: April 28, 2005

Matrix: Water

Parameters: Bis(2-chloroethyl)ether

Validation Level: EPA Level III & IV

Laboratory: CompuChem

Sample Delivery Group (SDG): 6108

Sample Identification

ACSGWMW19-25
ACSGWDUP03-25**
ACSGWMW06-25
ACSGWEB03-25
ACSGWMW09R-25
ACSGWMW06-25MS
ACSGWMW06-25MSD

**Indicates sample underwent EPA Level IV review.

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Bis(2-chloroethyl)ether.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No bis(2-chloroethyl)ether contaminants were found in the method blanks.

Sample ACSGWEB03-25 was identified as an equipment blank. No bis(2-chloroethyl)ether contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples ACSGWDUP03-25** and ACSGWMW06-25 were identified as field duplicates. No bis(2-chloroethyl)ether was detected in any of the samples.

ACS-89
Bis(2-chloroethyl)ether - Data Qualification Summary - SDG 6108

No Sample Data Qualified in this SDG

ACS-89
Bis(2-chloroethyl)ether - Laboratory Blank Data Qualification Summary - SDG 6108

No Sample Data Qualified in this SDG

ACS-89
Bis(2-chloroethyl)ether - Field Blank Data Qualification Summary - SDG 6108

No Sample Data Qualified in this SDG

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW19-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610810

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610810A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4--------	Bis(2-chloroethyl)ether	19	

FORM I SV 8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610811

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610811A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	10	U

FORM I SV 8270C

4/29/05

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY ·Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610813

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610813A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	--------Bis(2-chloroethyl)ether_____	10	U

FORM I SV 8270C

4/7/05

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610812

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610812JA64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	10	U

FORM I SV 8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW09R-25

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610814

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 610814A64

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/31/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/01/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	8.0	J

FORM I SV 8270C

Fq/2/06

LDC #: 13397B2 **VALIDATION COMPLETENESS WORKSHEET** Date: 4/26/05
SDG #: 6108 Level III/IV Page: 1 of 1
Laboratory: CompuChem Reviewer: JVZ
2nd Reviewer: [illegible]

METHOD: GC/MS Bis(2chloroethyl)ether (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/28/05
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	No SPCC RRF, no CCCs
IV.	Continuing calibration	A	↓
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	Not reviewed for Level III validation.
XII.	Compound quantitation/CRQLs	A	Not reviewed for Level III validation.
XIII.	Tentitatively identified compounds (TICs)	N	Not reviewed for Level III validation.
XIV.	System performance	A	Not reviewed for Level III validation.
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 2, 3
XVII.	Field blanks	ND	EB = 4

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation

Water

1	ACSGWMW19-25	11	SBLKBT	21		31	
2	ACSGWDUP03-25**	12		22		32	
3	ACSGWMW06-25	13		23		33	
4	ACSGWEB03-25	14		24		34	
5	ACSGWMW09R-25	15		25		35	
6	ACSGWMW06-25MS	16		26		36	
7	ACSGWMW06-25MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 17397 BV
SDG #: 6/08

VALIDATION FINDINGS CHECKLIST

Reviewer: JC
2nd Reviewer: Q

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?		✓		
Did the initial calibration meet the curve fit acceptance criteria?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) ≥ 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			

LC #: 13397 BV
SC #: 6108

VALIDATION FINDINGS CHECKLIST

Page: 2 of 3
Reviewer: JG
2nd Reviewer: G

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		✓		
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC #: 13397 B2
SDG #: 6108

VALIDATION FINDINGS CHECKLIST

Reviewer: JM
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
XVII. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

LDC # 131 731 | LIC ON DIN WO SHE | Page: 1 of 1

SDG #: 6104

Initial Calibration Calculation Verification

Reviewer: JTG

2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (50 std)	Recalculated RRF (40 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	VAL	3/07/05	~~Phenol (1st internal standard)~~ Bis(2-chloroethyl)ether	1.426	1.426	1.3988889	1.3995	1.905	1.969
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 133982
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	H605093 1A64	3/21/05	Bis(2-chloroethyl)ether ~~Phenol (1st internal standard)~~	1.4000	1.3044571	1.3044571	6.79	6.79
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 13397 B2
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #2

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	68.7935	69	69	0
2-Fluorpbiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 13797B2
SDG #: 6/6

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: JG
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MS - MSD I * 2/(MS + MSD) MS = Matrix spike percent recovery MSD = Matrix spike duplicate percent recovery

MS/MSD samples: 6/7

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	—	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Bis (2-chloroethyl) ether	80	80	0	64.64	61.39	81	81	77	77	5	5
2-Chlorophenol											
1,4-Dichlorobenzene											
N-Nitroso-di-n-propylamine											
1,2,4-Trichlorobenzene											
4-Chloro-3-methylphenol											
Acenaphthene											
4-Nitrophenol											
2,4-Dinitrotoluene											
Pentachlorophenol											
Pyrene											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

MSDCLC.2S

LDC #: 13397B2
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: JC
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA

Where: SSC = Spike concentration
SA = Spike added

RPD = I LCS - LCSD I * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: SBTLCS

Compound	Spike Added (ug/L)		Spike Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Bis (2-chloroethyl) ether Phenol	80	NA	64.3	NA	80	80				
2-Chlorophenol										
1,4-Dichlorobenzene										
N-Nitroso-di-n-propylamine										
1,2,4-Trichlorobenzene										
4-Chloro-3-methylphenol										
Acenaphthene										
4-Nitrophenol										
2,4-Dinitrotoluene										
Pentachlorophenol										
Pyrene										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 19397 B2
SDG #: 4104

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JG
2nd reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. _____ . ND :

Conc. = ( )( )( )( )( )
( )( )( )( )( )

=

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

ACS-89
Data Validation Reports
LDC# 13397

Arsenic

LDC Report# 13397B4

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: March 22 through March 28, 2005

LDC Report Date: April 22, 2005

Matrix: Water

Parameters: Arsenic

Validation Level: EPA Level III & IV

Laboratory: CompuChem

Sample Delivery Group (SDG): 6108

Sample Identification

ACSGWMW43-25
ACSGWMW15-25
ACSGWDUP03-25**
ACSGWMW06-25
ACSGWEB03-25
ACSGWMW06-25MS
ACSGWMW06-25MSD
ACSGWMW06-25DUP

**Indicates sample underwent EPA Level IV review

Introduction

This data review covers 8 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Arsenic.
This review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable.

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Sample ACSGWEB03-25 was identified as an equipment blank. No arsenic contaminants were found in this blank.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not required by the method.

XI. Sample Result Verification

All sample result verifications met validation criteria for samples on which a NFESC Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

XIII. Field Duplicates

Samples ACSGWDUP03-25** and ACSGWMW06-25 were identified as field duplicates. No arsenic was detected in any of the samples.

ACS-89
Arsenic - Data Qualification Summary - SDG 6108

No Sample Data Qualified in this SDG

ACS-89
Arsenic - Laboratory Blank Data Qualification Summary - SDG 6108

No Sample Data Qualified in this SDG

ACS-89
Arsenic - Field Blank Data Qualification Summary - SDG 6108

No Sample Data Qualified in this SDG

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610811

Level (low/med): LOW Date Received: 3/30/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P

9/4/9/05

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610813

Level (low/med): LOW Date Received: 3/30/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: 4/29/05

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610812

Level (low/med): LOW Date Received: 3/30/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P

4/29/05

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW15-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610809

Level (low/med): LOW Date Received: 3/30/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	13.2			P

4/29/05

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWMW43-25

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix (soil/water): WATER Lab Sample ID: 610801

Level (low/med): LOW Date Received: 3/28/05

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	11.1			P

4/29/05

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

LDC #: 13397B4

SDG #: 6108

Laboratory: CompuChem

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 4-22-05

Page: 1 of 1

Reviewer: MG

2nd Reviewer: MM

METHOD: Arsenic (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3-22-05 through 3-28-05
II.	Calibration	A	
III.	Blanks	A	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	A	MS/MSD
VI.	Duplicate Sample Analysis	A	DUP
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	" "
X.	*ICP Serial Dilution*	A	
XI.	Sample Result Verification	A	Not reviewed for Level III validation.
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	ND	D = 3+4
XIV.	Field Blanks	ND	EB = 5

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation

all water

1	ACSGWMW43-25	11		21		31	
2	ACSGWMW15-25	12		22		32	
3	ACSGWDUP03-25**	13		23		33	
4	ACSGWMW06-25	14		24		34	
5	ACSGWEB03-25	15		25		35	
6	ACSGWMW06-25MS	16		26		36	
7	ACSGWMW06-25MSD	17		27		37	
8	ACSGWMW06-25DUP	18		28		38	
9	PBW	19		29		39	
10		20		30		40	

Notes:

LDC #: 1339784
SDG #: 6108

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: [illegible]

Method: Metals (EPA SW 826 Method 6010/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury and 85-115% for cyanide) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
Was a midrange cyanide standard distilled?			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. ICP Interference Check Samples				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
IV. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			
VI. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients ≥ 0.995?			✓	
Do all applicable analysis have duplicate injections?			✓	

LDC #: 13397B4
SDG #: 6108

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: Lm

Validation Area	Yes	No	NA	Findings/Comments
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%?			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
VII. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the IDL?	✓			
Were all percent differences (%Ds) ≤ 10%?	✓			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
VIII. Internal Standards (EPA SW 846 Method 6020)				
Were all the percent recoveries (%R) within the 30-120% of the intensity of the internal standard in the associated initial calibration?			✓	
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.		✓		
XIII. Field Blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.		✓		

LDC #: 13397 B4
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: MG
2nd Reviewer: MJ

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
1329 ICV	ICP (Initial calibration)	As	991.2	996.0	99.5	99.5	Y
	GFAA (Initial calibration)						
	CVAA (Initial calibration)						
2204 CCV7	ICP (Continuing calibration)	As	991.7	1000.0	99.2	99.2	
	GFAA (Continuing calibration)						
	CVAA (Continuing calibration)						
	Cyanide (Initial calibration)						
	Cyanide (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 13397B4
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MG
2nd Reviewer: HY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result). True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration, D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L), SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
1405 ICSAB	ICP interference check	As	103.4 (µg/L)	97 (µg/L)	106.6	106.2	Y
1904 LCS	Laboratory control sample	As	862.6 (µg/L)	1000.0 (µg/L)	86.3	86.3	
1947 6	Matrix spike	As	(SSR-SR) 34.62 (µg/L)	40.00 (µg/L)	86.6	86.6	
1932/1940 8	Duplicate	As	3.6 U (µg/L)	3.6 U (µg/L)	0	—	
1932/2001 4	ICP serial dilution	As	3.6 U (µg/L)	18.0 U (µg/L)	0	—	

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC.4SW

LDC #: 13397B4
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: MG
2nd reviewer: MY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for the level IV sample = N.D. were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)(\%S)}$

Recalculation:

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor
%S = Decimal percent solids

Sample ID	Analyte	Reported Concentration ( )	Calculated Concentration ( )	Acceptable (Y/N)

LDC Report# 13397B1

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: March 24 through March 29, 2005

LDC Report Date: April 27, 2005

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level III & IV

Laboratory: CompuChem

Sample Delivery Group (SDG): 6108

Sample Identification

ACSGWMW43-25	ACSGWMW48-25DL
ACSGWMW53-25**	ACSGWMW06-25MS
ACSGWDUP02-25	ACSGWMW06-25MSD
ACSGWMW33-25	
ACSGWMW30-25	
ACSGWMW51-25**	
ACSGWTB01-25	
ACSGWEB02-25	
ACSGWMW15-25	
ACSGWMW19-25	
ACSGWDUP03-25**	
ACSGWMW06-25	
ACSGWEB03-25	
ACSGWMW09R-25	
ACSGWMW14-25**	
ACSGWMW29-25	
ACSGWMW10C-25	
ACSGWMW10C-25DL	
ACSGWMW49-25**	
ACSGWMW48-25	

**Indicates sample underwent EPA Level IV review.

Introduction

This data review covers 23 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for selected compounds.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

Average relative response factors (RRF) for all system performance check compounds (SPCCs) were within method criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
4/4/05	Methyl acetate	26.53	ACSGWMW43-25 ACSGWMW33-25 ACSGWMW30-25 ACSGWMW51-25** ACSGWTB01-25 ACSGWEB02-25 VBLKSS	J (all detects) UJ (all non-detects)	A
4/6/05	Chloromethane	27.14	ACSGWMW15-25 ACSGWMW19-25 ACSGWDUP03-25** ACSGWMW06-25 ACSGWEB03-25 ACSGWMW09R-25 VBLKST	J (all detects) UJ (all non-detects)	A

Date	Compound	%D	Associated Samples	Flag	A or P
4/7/05	Dichlorodifluoromethane Chloromethane	79.38 47.50	ACSGWMW14-25** ACSGWMW29-25 ACSGWMW10C-25 ACSGWMW48-25 VBLKXG	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
4/12/05	Bromomethane	69.43	ACSGWMW10C-25DL ACSGWMW49-25** ACSGWMW48-25DL VBLKAM	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values for all system performance check compounds (SPCCs) were within method criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKSS	4/4/05	Methylene chloride	1.0 ug/L	ACSGWMW43-25 ACSGWMW33-25 ACSGWMW30-25 ACSGWMW51-25** ACSGWTB01-25 ACSGWEB02-25
VBLKWG	4/5/05	Acetone	9.8 ug/L	ACSGWMW53-25** ACSGWDUP02-25
VBLKST	4/6/05	Acetone	7.2 ug/L	ACSGWMW15-25 ACSGWMW19-25 ACSGWDUP03-25** ACSGWMW06-25 ACSGWEB03-25 ACSGWMW09R-25
VBLKXG	4/7/05	Acetone	7.5 ug/L	ACSGWMW14-25** ACSGWMW29-25 ACSGWMW10C-25 ACSGWMW48-25

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
ACSGWMW29-25	Acetone	6.3 ug/L	13UB ug/L

Sample ACSGWTB01-25 was identified as a trip blank. No volatile contaminants were found in this blank.

Samples ACSGWEB02-25, ACSGWEB03-25, and samples ACSGWEB04-05 (from SDG 6125) was identified as equipment blanks. No volatile contaminants were found in these blanks with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
ACSGWEB04-05	3/29/05	Acetone	8.5 ug/L	ACSGWMW10C-25 ACSGWMW10C-25DL ACSGWMW49-25** ACSGWMW48-25 ACSGWMW48-25DL

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
ACSGWMW48-25	1,2-Dichloroethane-d4	121 (80-120)	All TCL compounds	J (all detects)	P
VBLKAM	Bromofluorobenzene	123 (80-120)	All TCL compounds	J (all detects)	P
ACSGWMW49-25**	Bromofluorobenzene	125 (80-120)	All TCL compounds	J (all detects)	P
ACSGWMW10C-25DL	Bromofluorobenzene	126 (80-120)	All TCL compounds	J (all detects)	P
ACSGWMW48-25DL	Bromofluorobenzene	123 (80-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
ACSGWMW10C-25 ACSGWMW48-25	Benzene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

Raw data were not evaluated for the samples reviewed by Level III criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples ACSGWMW53-25** and ACSGWDUP02-25, samples ACSGWDUP03-25** and ACSGWMW06-25, samples ACSGWMW48-25 and ACSGWDUP04-25 (from SDG 6125), and samples ACSGWMW48-25DL and ACSGWDUP04-25DL (from SDG 6125) were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	ACSGWMW53-25**	ACSGWDUP02-25	
Benzene	9.2	8.4	9

Compound	Concentration (ug/L)		RPD
	ACSGWDUP03-25**	ACSGWMW06-25	
Chloroethane	5.0U	3.0	200

Compound	Concentration (ug/L)		RPD
	ACSGWMW48-25	ACSGWDUP04-25	
Chloroethane	19	13	38
Benzene	330	330	0

Compound	Concentration (ug/L)		RPD
	ACSGWMW48-25DL	ACSGWDUP04-25DL	
Methylene chloride	13U	5.5	200
Benzene	290	290	0
Toluene	13U	3.0	200

ACS-89
Volatiles - Data Qualification Summary - SDG 6108

SDG	Sample	Compound	Flag	A or P	Reason
6108	ACSGWMW43-25 ACSGWMW33-25 ACSGWMW30-25 ACSGWMW51-25** ACSGWTB01-25 ACSGWEB02-25	Methyl acetate	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
6108	ACSGWMW15-25 ACSGWMW19-25 ACSGWDUP03-25** ACSGWMW06-25 ACSGWEB03-25 ACSGWMW09R-25	Chloromethane	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
6108	ACSGWMW14-25** ACSGWMW29-25 ACSGWMW10C-25 ACSGWMW48-25	Dichlorodifluoromethane Chloromethane	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
6108	ACSGWMW10C-25DL ACSGWMW49-25** ACSGWMW48-25DL	Bromomethane	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
6108	ACSGWMW48-25 ACSGWMW49-25** ACSGWMW10C-25DL ACSGWMW48-25DL	All TCL compounds	J (all detects)	P	Surrogate recovery (%R)
6108	ACSGWMW10C-25 ACSGWMW48-25	Benzene	J (all detects)	A	Compound quantitation and CRQLs

ACS-89
Volatiles - Laboratory Blank Data Qualification Summary - SDG 6108

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
6108	ACSGWMW29-25	Acetone	13UB ug/L	A

ACS-89
Volatiles - Field Blank Data Qualification Summary - SDG 6108

No Sample Data Qualified in this SDG

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610803

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610803RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	8.4	
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610803

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610803RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWDUP02-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610803

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610803RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.23	12	J
2.	UNKNOWN	6.88	8.8	J
3. 646-06-0	1,3-DIOXOLANE	8.35	7.1	NJ
4. 109-99-9	FURAN, TETRAHYDRO-	8.55	17	NJ
5. 123-91-1	1,4-DIOXANE	9.97	18	NJ
6.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610811

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610811A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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 uJ
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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610811

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610811A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/7/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWDUP03-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610811

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610811A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

4/7/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610808

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610808A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610808

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610808A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/8/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWEB02-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610808

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610808A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.06	7.6	J
2.					
3.					
4.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610813

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610813A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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 UJ
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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610813

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610813A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWEB03-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610813

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610813A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.04	15	J
2.				
3.				
4.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610812

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610812A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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 UJ
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	3.0	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610812

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610812A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

Katmos

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW06-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610812

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610812A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.04	5.3	J
2.				
3.				
4.				
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FORM I VOA-TIC

Catalos

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW09R-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610814

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610814A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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 UJ
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	3.8	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	6.8	
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

Katzalos

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW09R-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610814

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610814A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

Fatalos

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW09R-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610814

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610814A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHER	5.78	6.3	NJ
2.	UNKNOWN	8.04	6.1	J
3.	UNKNOWN	9.18	11	J
4.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW10C-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
75-71-8	Dichlorodifluoromethane	5.0	U	UJ
74-87-3	Chloromethane	5.0	U	UJ
75-01-4	Vinyl Chloride	5.0	U	
74-83-9	Bromomethane	5.0	U	
75-00-3	Chloroethane	25		
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U	
67-64-1	Acetone	13	U	
75-09-2	Methylene Chloride	5.0	U	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl-tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
78-93-3	2-butanone	13	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	350	E	J
107-06-2	1,2-Dichloroethane	5.0	U	
79-01-6	Trichloroethene	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	13	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	13	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	

FORM I VOA

4/19/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW10C-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW10C-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	4.52	7.5	J
2.		UNKNOWN	5.03	13	J
3.	60-29-7	ETHER	5.81	110	NJ
4.					
5.					
6.					
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW10C-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U UJ
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
75-15-0	Carbon disulfide	13	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U
67-64-1	Acetone	31	U
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-butanone	31	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	260	D J
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	31	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	31	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW10C-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW10C-25DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610817

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610817DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHER	1.82	110	NJD
2.				
3.				
4.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW14-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610815

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610815A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U UJ
74-87-3	Chloromethane	5.0	U UJ
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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	1.2	J
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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/20/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW14-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610815

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610815A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

Fatalos

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW14-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610815

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610815A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW15-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610809

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610809A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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 UJ
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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	0.88	J
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/7/06

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW15-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610809

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610809A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW15-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610809

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610809A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.04	6.0	J
2. 83-32-9	ACENAPHTHENE	13.98	14	NJ
3. 132-64-9	DIBENZOFURAN	14.86	12	NJ
4.	UNKNOWN	16.90	8.0	J
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW19-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610810

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610810A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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 UJ
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	15	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	4.8	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/5/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW19-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610810

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610810A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW19-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610810

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610810A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/06/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHER	5.79	6.6	NJ
2.	UNKNOWN	8.04	5.3	J
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW29-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610816

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610816A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U UJ
74-87-3	Chloromethane	5.0	U UJ
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	80	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	6.3	JB 13 UB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW29-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610816

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610816A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW29-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610816

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610816A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

4/7/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW30-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610805

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610805A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	2.4	J
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW30-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610805

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610805A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW30-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610805

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610805A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.25	5.0	J
2. 123-91-1	1,4-DIOXANE	9.99	6.0	NJ
3.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW33-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610804

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610804A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	9.0	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/4/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW33-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610804

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610804A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW33-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610804

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610804A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.89	5.3	J
2.	UNKNOWN	8.06	5.7	J
3. 646-06-0	1,3-DIOXOLANE	8.36	6.5	NJ
4. 109-99-9	FURAN, TETRAHYDRO-	8.56	110	NJ
5.	UNKNOWN	9.03	6.1	J
6. 123-91-1	1,4-DIOXANE	9.98	13	NJ
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FORM I VOA-TIC

4/20/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW43-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610801

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610801A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW43-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610801

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610801A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/7/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW43-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610801

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610801A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW48-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
75-71-8	Dichlorodifluoromethane	5.0	U	UJ
74-87-3	Chloromethane	5.0	U	UJ
75-01-4	Vinyl Chloride	5.0	U	
74-83-9	Bromomethane	5.0	U	
75-00-3	Chloroethane	19		J
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U	
67-64-1	Acetone	13	U	
75-09-2	Methylene Chloride	5.0	U	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl-tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
78-93-3	2-butanone	13	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	330	E	J
107-06-2	1,2-Dichloroethane	5.0	U	
79-01-6	Trichloroethene	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	13	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	13	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	

FORM I VOA

PQ 12/06

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW48-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4-9-05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW48-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW48-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U ~~UJ~~
74-83-9	Bromomethane	13	U UJ
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
75-15-0	Carbon disulfide	13	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U
67-64-1	Acetone	31	U
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-butanone	31	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	290	D J
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	31	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	31	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW48-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM I VOA

9/4/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW48-25DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610819

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610819DA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW49-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610818

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610818RA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

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

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 UJ
75-00-3	Chloroethane	5.9	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	89	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW49-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610818

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610818RA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW49-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610818

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610818RA61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW51-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610806

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610806A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW51-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610806

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610806A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW51-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610806

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610806A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHER	5.81	1400	NJ
2.	UNKNOWN	6.89	8.6	J
3.	UNKNOWN	8.05	7.1	J
4. 109-99-9	FURAN, TETRAHYDRO-	8.56	6.6	NJ
5. 123-91-1	1,4-DIOXANE	9.99	8.8	NJ
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW53-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610802

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610802RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	9.2	
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW53-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610802

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610802RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW53-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610802

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610802RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.22	13	J
2.	UNKNOWN	6.87	9.6	J
3. 646-06-0	1,3-DIOXOLANE	8.35	7.6	NJ
4. 109-99-9	FURAN, TETRAHYDRO-	8.55	18	NJ
5. 123-91-1	1,4-DIOXANE	9.97	19	NJ
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FORM I VOA-TIC

4/4/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWTB01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610807

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610807A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWTB01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610807

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610807A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

Catalog 4/29/06

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWTB01-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6108

Matrix: (soil/water) WATER Lab Sample ID: 610807

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610807A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.06	7.2	J
2.				
3.				
4.				
5.				
6.				
7.				
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FORM I VOA-TIC

4/29/05

LDC #: 13397B1
SDG #: 6108
Laboratory: CompuChem

VALIDATION COMPLETENESS WORKSHEET
Level III/IV

Date: 4/26/05
Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/24 - 29/05
II.	GC/MS Instrument performance check	A	SPCC RRF
III.	Initial calibration	A	% RSD, r^2
IV.	Continuing calibration	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	Not reviewed for Level III validation.
XII.	Compound quantitation/CRQLs	SW	Not reviewed for Level III validation.
XIII.	Tentitatively identified compounds (TICs)	A	Not reviewed for Level III validation.
XIV.	System performance	N	Not reviewed for Level III validation.
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D_1 = 2, 3 D_2 = 11, 12 D_3 = 20 + ACSGWDUP04-25 D_4 = 21 + ACSGWDUP04-25DL } from 61
XVII.	Field blanks	SW	EB = ~~B~~ *3, ACSGWEB04-05 (from 6/25) *TB = 7

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; * ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation

Water

1	1	ACSGWMW43-25	11	3	ACSGWDUP03-25** D_2	21	5	ACSGWMW48-25DL D_4	31 1 VBLKSS
2	1	ACSGWMW53-25** D_1	12	3	ACSGWMW06-25 D_2	22	4	ACSGWMW06-25MS	32 1 VBLKNG
3	1	ACSGWDUP02-25 D_1	13	3	ACSGWEB03-25	23	4	ACSGWMW06-25MSD	33 3 VBLKST
4	1	ACSGWMW33-25	14	3	ACSGWMW09R-25	24			34 1 VBLKXG
5	1	ACSGWMW30-25	15	4	ACSGWMW14-25**	25			35 5 VBLKAM
6	1	ACSGWMW51-25**	16	4	ACSGWMW29-25	26			36
7	1	ACSGWTB01-25	17	4	ACSGWMW10C-25	27			37
8	1	ACSGWEB02-25	18	5	ACSGWMW10C-25DL	28			38
9	3	ACSGWMW15-25	19	5	ACSGWMW49-25**	29			39
10	3	ACSGWMW19-25	20	4	ACSGWMW48-25 D_3	30			40

I C #: 133971
SDG #: 6108

VALIDATION FINDINGS CHECKLIST

Reviewer: JVG
2nd Reviewer: CD

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	✓			r² ≥ 0.99
Did the initial calibration meet the curve fit acceptance criteria?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) ≥ 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?		✓		
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	✓			
VII. Matrix spike/matrix spike duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			

LDC #: 12397B1
SDG #: 6108

VALIDATION FINDINGS CHECKLIST

Page: 2 of
Reviewer: JV
2nd Reviewer: Q

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	✓			
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	✓			
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			

DC #: 13397 B1
SDG #: 6108

VALIDATION FINDINGS CHECKLIST

Reviewer: JRC
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
XVII. Field Blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene ✓	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Cyclohexane
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Methylcyclohexane
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN Methyl Acetate
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-Isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 13397 B1
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	4/04/05	GT050404 A59	NNNN	26.53		1, 4-8, VBLKSS	J/UJ/A
	4/06/05	GT050406 A59	A	27.14		9-14, VBLKST	
	4/07/05	GT050407 A59	JJ	79.38		15-17, 20, VBLKXG	
			A	47.50			
	4/12/05	CH050412 A61	B	69.43		18, 19, 21, VBLKAM	

LDC #: 13397 B1
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of Y
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 4/04/05
Conc. units: ug/L
Associated Samples: 1, 4-8 (ND)

Compound	Blank ID	Sample Identification								
	VBLKSS									
Methylene chloride	1.0									
Acetone										
CRQL										

Blank analysis date: 4/05/05
Conc. units: ug/L
Associated Samples: 2, 3 (ND)

Compound	Blank ID	Sample Identification								
	VBLKWG									
Methylene chloride										
Acetone	9.8									
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

VALIDATION INDICATORS WORKSHEET

SDG #: 6108

Blanks

Reviewer: JK

2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?

Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 4/06/05

Conc. units: ug/L

Associated Samples: 9 – 14 (Nb)

Compound	Blank ID	Sample Identification								
	VBLK ST									
Methylene chloride										
Acetone	7.2									
CRQL										

Blank analysis date: 4/07/05

Conc. units: ug/L

Associated Samples: 15 – 17 20

Compound	Blank ID	Sample Identification								
	VBLK XG	16								
Methylene chloride										
Acetone	7.5	6.3/13UB								
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 13397 B1
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: JG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: EB Associated Samples: 17 – 21 (ND)

Compound	Blank ID ACSGW EB04-25	Blank ID	Sample Identification							
Sampling Date	3/29/05									
Methylene chloride										
Acetone	8.5									
Chloroform										
CRQL										

Blank units: _____ **Associated sample units:** _____
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: _____ Associated Samples: _____

Compound	Blank ID	Blank ID	Sample Identification							
Sampling Date										
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LI : [illegible] ALK[illegible]ION [illegible]NDI[illegible]S W[illegible]SH[illegible] e: 1 [illegible]

SDG #: 6108

Surrogate Spikes

Reviewer: JVG

2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all surrogate %R within QC limits?

Y (N) N/A If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R out of outside of criteria?

#	Date	Sample ID	Surrogate	%Recovery (Limits)	Qualifications
		20	DCE	121 (80-120)	J dets /P
				( )	
		VBLKAM	BFB	123 ( )	
				( )	
		19		125 ( )	
				( )	
		18		126 ( )	
				( )	
		21		123 ( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	QC Limits (Soil)	QC Limits (Water)
SMC1 (TOL) = Toluene-d8	81-117	88-110
SMC2 (BFB) = Bromofluorobenzene	74-121	86-115
SMC3 (DCE) = 1,2-Dichloroethane-d4	80-120	80-120
SMC4 (DFM) = Dibromofluoromethane	80-120	86-118

LDC #: 13397 B1
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and CRQLs

Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y N N/A Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		17, 20	V > calib range	17, 20	J dets A

Comments: See sample calculation verification worksheet for recalculations

LDC #: 13399B1
SDG #: 6109

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: JVC
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L) 2	3	RPD
V	9.2	8.4	9

Compound	Concentration (ug/L) 11	12	RPD
D	5.0U	3.0	200

Compound	Concentration (ug/L) 20	ACSGWDUP04-25	RPD
D	19	13	38
V	330	330	0

Compound	Concentration (ug/L) 21	ACSGWDUP04-25DL	RPD
E	13U	5.5	200
V	290	290	0
CC	13U	3.0	200

LDC #: 13397B1
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (~~2BB~~ std)	Recalculated RRF (~~2BB~~ std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	3/30/05	Methylene chloride (1st internal standard)	0.29838 ~~0.24838~~	0.29838	0.30218237	0.30218167	2.848	2.848
			~~Trichlorethene~~ CC (2nd internal standard)	0.93400	0.93400	0.95959812	0.95959833	2.254	2.254
	HP59		~~Toluene~~ BB (3rd internal standard)	0.98670	0.98670	1.00234738	1.00234667	4.587	4.587
2	ICAL	4/11/05	Methylene chloride (1st internal standard)	0.24720	0.24720	0.31077348	0.31077333	3.813	3.813
			~~Trichlorethene~~ CC (2nd internal standard)	1.00477	1.00477	1.04160860	1.041600	6.061	6.061
	HP61		~~Toluene~~ BB (3rd internal standard)	1.65969	1.65969	1.73499279	1.7349917	8.148	8.148
3			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
4			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 13397 B1
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 2
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	GTO50404A59	4/04/05	Methylene chloride (1st internal standard)	0.3021800	0.3416933	0.3416933	13.08	13.08
			~~Trichlorethene~~ CC (2nd internal standard)	0.9596000	0.9747220	0.9747220	1.58	1.58
			~~Toluene~~ BB (3rd internal standard)	1.0023500	1.0961609	1.0961609	9.36	9.36
2	GTO50405A59	4/05/05	Methylene chloride (1st internal standard)	0.3021800	0.3071362	0.3071362	1.64	1.64
			~~Trichlorethene~~ CC (2nd internal standard)	0.9596000	0.9213153	0.9213153	3.99	3.99
			~~Toluene~~ BB (3rd internal standard)	1.0023500	1.0519704	1.0519704	4.94	4.94
3	GTO50406A59	4/06/05	Methylene chloride (1st internal standard)	0.3021800	0.2798010	0.2798010	7.40	7.40
			~~Trichlorethene~~ CC (2nd internal standard)	0.9596000	0.8740324	0.8740324	8.92	8.92
			~~Toluene~~ BB (3rd internal standard)	1.0023500	0.9335407	0.9335407	6.86	6.86
4	GTO50407A59	4/07/05	Methylene chloride (1st internal standard)	0.3021800	0.3083298	0.3083298	2.04	2.04
			~~Trichlorethene~~ CC (2nd internal standard)	0.9596000	0.9534295	0.9534295	0.59	0.59
			~~Toluene~~ BB (3rd internal standard)	1.0023500	1.0417709	1.0417709	3.93	3.93

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 13397B1
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 2 of 2
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CH050412A61	4/12/05	Methylene chloride (1st internal standard)	0.3107700	0.3167696	0.3167696	1.93	1.93
			~~Trichlorethene~~ CC (2nd internal standard)	1.0416100	1.0746940	1.0746940	3.18	3.18
			~~Toluene~~ BB (3rd internal standard)	1.7349900	1.7527763	1.7527763	1.02	1.02
2			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
3			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
4			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 13397 B1
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JTG
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 2

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	250	244.86 ✓	98	98	0
Bromofluorobenzene		240.714	96	96	
1,2-Dichloroethane-d4		243.360	97	97	
Dibromofluoromethane		252.135	101	101	✓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 13397 B7
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = I MSC - MSDC I * 2/(MSC + MSDC) MSC = Matrix spike percent recovery MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 22/23

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	----	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	50	50	0	41.98	40.78	84	84	82	82	3	3
Trichloroethene	↓	↓	↓	43.22	42.14	86	86	84	84	3	3
Benzene	↓	↓	↓	51.03	50.19	102	102	100	100	2	2
Toluene	↓	↓	↓	47.55	47.09	95	95	94	94	1	1
Chlorobenzene	↓	↓	↓	47.08	46.27	94	94	93	92	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 13747B1
SDG #: 6108

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboratory control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: YSS LCS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	50	NA	49.28	NA	99	99				
Trichloroethene			49.25		99	99				
Benzene			52.34		105	105				
Toluene			48.58		97	97				
Chlorobenzene			49.94		100	100				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LCSCLC.1SB

LDC #: 13397 B7
SDG #: 61051

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JVK
2nd reviewer: ✓

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #7, V:

Conc. = (87973)(250)( )
(456473)(1.049/5)(5)( )

= 9.18

~ 9.7 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

LDC Report# 13397A1

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: March 21 through March 25, 2005

LDC Report Date: April 29, 2005

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level III

Laboratory: CompuChem

Sample Delivery Group (SDG): 6107

Sample Identification

ACSGWMW11-25
ACSGWMW12-25
ACSGWMW42-25
ACSGWMW45-25
ACSGWDUP01-25
ACSGWMW44-25
ACSGWMW39-25
ACSGWMW32-25
ACSGWMW31-25
ACSGWMW08-25
ACSGWMW13-25
ACSGWMW23-25
ACSGWMW28-25
ACSGWMW17-25
ACSGWMW54R-25
ACSGWMWEB01-25
ACSGWMW55-25
ACSGWMW56-25
ACSGWMW56-25DL
ACSGWMW37-25
ACSGWMW52-25
ACSGWMW13-25MS
ACSGWMW13-25MSD

Introduction

This data review covers 23 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for selected compounds.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

Average relative response factors (RRF) for all system performance check compounds (SPCCs) were within method criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
4/1/05	Methyl acetate	26.88	ACSGWMW11-25 ACSGWMW12-25 ACSGWMW42-25 ACSGWMW45-25 ACSGWDUP01-25 ACSGWMW44-25 ACSGWMW39-25 ACSGWMW32-25 ACSGWMW31-25 ACSGWMW08-25 ACSGWMW13-25 ACSGWMW23-25 ACSGWMW28-25 ACSGWMW17-25 ACSGWMW54R-25 ACSGWMWEB01-25 ACSGWMW55-25	J (all detects) UJ (all non-detects)	A
4/4/05	Methyl acetate	26.53	ACSGWMW56-25 ACSGWMW37-25 ACSGWMW52-25 ACSGWMW13-25MS ACSGWMW13-25MSD VBLKSS	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values for all system performance check compounds (SPCCs) were within method criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKSS	4/4/05	Methylene chloride	1.0 ug/L	ACSGWMW56-25 ACSGWMW37-25 ACSGWMW52-25

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKTG	4/1/05	Lab artifact (10.99) Lab artifact (14.84) Lab artifact (16.59) Lab artifact (18.76)	9.2 ug/L 6.1 ug/L 8.0 ug/L 5.4 ug/L	ACSGWMW11-25 ACSGWMW12-25 ACSGWMW42-25 ACSGWMW45-25 ACSGWDUP01-25 ACSGWMW44-25 ACSGWMW39-25 ACSGWMW32-25 ACSGWMW31-25 ACSGWMW08-25 ACSGWMW13-25 ACSGWMW23-25 ACSGWMW28-25 ACSGWMW17-25 ACSGWMW54R-25 ACSGWMWEB01-25 ACSGWMW55-25
VBLKWG	4/5/05	Acetone	9.8 ug/L	ACSGWMW56-25DL

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
ACSGWMW12-25	Lab artifact (10.98)	5.4 ug/L	5.4UB ug/L
ACSGWMW42-25	Lab artifact (14.84)	10 ug/L	10UB ug/L
ACSGWMW45-25	Lab artifact (14.84)	5.4 ug/L	5.4UB ug/L
ACSGWMW32-25	Lab artifact (10.98) Lab artifact (14.84)	6.2 ug/L 5.5 ug/L	6.2UB ug/L 5.5UB ug/L
ACSGWMW56-25DL (8.3x)	Acetone	96 ug/L	108UB ug/L

Samples ACSGWMWEB01-25 and ACSGWEB02-25 (from SDG 6108) were identified as equipment blanks. No volatile contaminants were found in these blanks with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
ACSGWMWEB01-25	3/23/05	cis-1,2-Dichloroethene Toluene	1.9 ug/L 1.5 ug/L	ACSGWMW32-25 ACSGWMW31-25 ACSGWMW08-25 ACSGWMW23-25 ACSGWMW28-25 ACSGWMW17-25 ACSGWMW54R-25

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
ACSGWMW28-25	1,2-Dichloroethane-d4	122 (80-120)	All TCL compounds	J (all detects)	P
ACSGWMW55-25	1,2-Dichloroethane-d4	122 (80-120)	All TCL compounds	J (all detects)	P
ACSGWMW56-25DL	1,2-Dichloroethane-d4	125 (80-120)	All TCL compounds	J (all detects)	A

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
ACSGWMW56-25	Benzene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples ACSGWMW45-25 and ACSGWDUP01-25 were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	ACSGWMW45-25	ACSGWDUP01-25	
Benzene	2.4	2.3	4
Chlorobenzene	12	12	0
Cyclohexane	3.2	3.2	0
Methylcyclohexane	3.2	3.1	3

ACS-89
Volatiles - Data Qualification Summary - SDG 6107

SDG	Sample	Compound	Flag	A or P	Reason
6107	ACSGWMW11-25 ACSGWMW12-25 ACSGWMW42-25 ACSGWMW45-25 ACSGWDUP01-25 ACSGWMW44-25 ACSGWMW39-25 ACSGWMW32-25 ACSGWMW31-25 ACSGWMW08-25 ACSGWMW13-25 ACSGWMW23-25 ACSGWMW28-25 ACSGWMW17-25 ACSGWMW54R-25 ACSGWMWEB01-25 ACSGWMW55-25 ACSGWMW56-25 ACSGWMW37-25 ACSGWMW52-25	Methyl acetate	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
6107	ACSGWMW28-25 ACSGWMW55-25	All TCL compounds	J (all detects)	P	Surrogate recovery (%R)
6107	ACSGWMW56-25DL	All TCL compounds	J (all detects)	A	Surrogate recovery (%R)
6107	ACSGWMW56-25	Benzene	J (all detects)	A	Compound quantitation and CRQLs

ACS-89
Volatiles - Laboratory Blank Data Qualification Summary - SDG 6107

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
6107	ACSGWMW12-25	Lab artifact (10.99)	5.4UB ug/L	A
6107	ACSGWMW42-25	Lab artifact (14.84)	10UB ug/L	A
6107	ACSGWMW45-25	Lab artifact (14.84)	5.4UB ug/L	A
6107	ACSGWMW32-25	Lab artifact (10.99) Lab artifact (14.84)	6.2UB ug/L 5.5UB ug/L	A
6107	ACSGWMW56-25DL (8.3x)	Acetone	108UB ug/L	A

ACS-89
Volatiles - Field Blank Data Qualification Summary - SDG 6107

No Sample Data Qualified in this SDG

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610705

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610705B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	2.3	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610705

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610705B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	12	
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	3.2	J
108-87-2	Methylcyclohexane	3.1	J

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWDUP01-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610705

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610705B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.06	13	J
2. 100-40-3	CYCLOHEXENE, 4-ETHENYL-	11.82	5.9	NJ
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW08-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610710

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610710B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/4/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW08-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610710

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610710B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
108-90-7	Chlorobenzene	5.0	U	
100-41-4	Ethylbenzene	5.0	U	
100-42-5	Styrene	5.0	U	
75-25-2	Bromoform	5.0	U	
98-82-8	Isopropyl Benzene	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	
1330-20-7	Xylene (total)	5.0	U	
79-20-9	Methyl acetate	5.0	U	UJ
110-82-7	Cyclohexane	5.0	U	
108-87-2	Methylcyclohexane	5.0	U	

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW08-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610710

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610710B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHER	5.79	17	NJ
2.	UNKNOWN	8.05	7.0	J
3.				
4.				
5.				
6.				
7.				
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30.				

FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW11-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610701

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610701B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW11-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610701

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610701B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

9/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW11-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610701

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610701B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.04	15	J
2.	91-20-3	NAPHTHALENE	16.66	22	NJ
3.					
4.					
5.					
6.					
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW12-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610702

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610702B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW12-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610702

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610702B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	3.2	J
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U uJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW12-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610702

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610702B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.58	30	J
2.		UNKNOWN	8.05	12	J
3.		LABORATORY ARTIFACT	10.98	5.4	JB u
4.		LABORATORY ARTIFACT	13.21	11	J
5.		UNKNOWN	14.86	21	J
6.	91-20-3	NAPHTHALENE	16.67	5.6	NJ
7.					
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW13-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610711

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610711B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW13-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610711

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610711B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW13-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610711

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610711B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.05	19	J
2.	LABORATORY ARTIFACT	13.21	7.1	J
3.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW17-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610714

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610714B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	1.1	J
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW17-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610714

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610714B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW17-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610714

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610714B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.06	6.1	J
2.	934-74-7	BENZENE, 1-ETHYL-3,5-DIMETHY	14.97	5.4	NJ
3.	95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	15.36	10	NJ
4.	527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL	15.41	16	NJ
5.		UNKNOWN	15.90	7.7	J
6.					
7.					
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW23-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610712

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610712B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW23-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610712

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610712B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U uJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW23-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610712

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610712B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.36	64	J
2.		UNKNOWN	8.04	13	J
3.		LABORATORY ARTIFACT	13.21	6.7	J
4.					
5.					
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7.					
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FORM I VOA-TIC

9/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW28-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610713

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610713B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW28-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610713

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610713B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/21/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW28-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610713

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610713B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.04	19	J
2.		LABORATORY ARTIFACT	13.21	8.1	J
3.					
4.					
5.					
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW31-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610709

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610709B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW31-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610709

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610709B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW31-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610709

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610709B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1066-40-6	SILANOL, TRIMETHYL-	8.05	30	NJ
2.				
3.				
4.				
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FORM I VOA-TIC

4/7/2005

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW32-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610708

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610708B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW32-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610708

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610708B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW32-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610708

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610708B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.83	5.3	J
2. 420-56-4	SILANE, FLUOROTRIMETHYL-	4.36	36	NJ
3.	UNKNOWN	8.05	16	J
4.	LABORATORY ARTIFACT	10.98	6.2	JB u
5.	LABORATORY ARTIFACT	13.20	19	J
6.	LABORATORY ARTIFACT	14.84	5.5	JB u
7.				
8.				
9.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW37-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610719

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610719A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW37-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610719

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610719A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U uJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW37-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610719

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610719A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW39-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610707

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610707B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	1.5	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	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW39-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610707

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610707B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

9/4/2005

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW39-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610707

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610707B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.64	52	J
2.		UNKNOWN	8.04	7.4	J
3.		UNKNOWN	17.12	6.3	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW42-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610703

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610703B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW42-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610703

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610703B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW42-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610703

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610703B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.05	19	J
2.	541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	10.99	12	NJ
3.		LABORATORY ARTIFACT	13.21	33	J
4.		LABORATORY ARTIFACT	14.84	10	JB u
5.					
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW44-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610706

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610706B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW44-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610706

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610706B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW44-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610706

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610706B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.67	44	J
2.	UNKNOWN	8.05	9.1	J
3.	LABORATORY ARTIFACT	13.21	10	J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW45-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610704

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610704B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	2.4	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW45-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610704

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610704B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	12	
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	3.2	J
108-87-2	Methylcyclohexane	3.2	J

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW45-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610704

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610704B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.05	18	J
2. 100-40-3	CYCLOHEXENE, 4-ETHENYL-	11.82	5.9	NJ
3.	LABORATORY ARTIFACT	13.21	9.3	J
4.	LABORATORY ARTIFACT	14.84	5.4	JB u
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW52-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610720

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610720A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW52-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610720

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610720A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW52-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610720

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610720A59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.26	11	J
2.	60-29-7	ETHER	5.79	1900	NJ
3.		UNKNOWN	6.24	7.3	J
4.		UNKNOWN	6.89	8.1	J
5.	109-99-9	FURAN, TETRAHYDRO-	8.56	12	NJ
6.		UNKNOWN	8.90	5.5	J
7.	123-91-1	1,4-DIOXANE	9.99	5.6	NJ
8.					
9.					
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12.					
13.					
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW54R-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610715

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610715B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/19/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW54R-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610715

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610715B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW54R-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610715

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610715B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.04	11	J
2.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW55-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610717

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610717B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	11	J J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW55-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610717

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610717B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW55-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610717

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610717B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.36	72	J
2.	UNKNOWN	8.05	27	J
3.				
4.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW56-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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	6.4	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	1000	E J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW56-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U uJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW56-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718RA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/04/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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3.				
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW56-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718DA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 8.3

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	42	U
74-87-3	Chloromethane	42	U
75-01-4	Vinyl Chloride	42	U
74-83-9	Bromomethane	42	U
75-00-3	Chloroethane	42	U
75-69-4	Trichlorofluoromethane	42	U
75-35-4	1,1-Dichloroethene	42	U
75-15-0	Carbon disulfide	42	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	42	U
67-64-1	Acetone	96	DJB ~~B~~ 108UBJ
75-09-2	Methylene Chloride	42	U
156-60-5	trans-1,2-Dichloroethene	42	U
1634-04-4	Methyl-tert-butyl ether	42	U
75-34-3	1,1-Dichloroethane	42	U
156-59-2	cis-1,2-Dichloroethene	42	U
78-93-3	2-butanone	100	U
67-66-3	Chloroform	42	U
71-55-6	1,1,1-Trichloroethane	42	U
56-23-5	Carbon Tetrachloride	42	U
71-43-2	Benzene	1200	D J
107-06-2	1,2-Dichloroethane	42	U
79-01-6	Trichloroethene	42	U
78-87-5	1,2-Dichloropropane	42	U
75-27-4	Bromodichloromethane	42	U
10061-01-5	cis-1,3-Dichloropropene	42	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	42	U
10061-02-6	trans-1,3-Dichloropropene	42	U
79-00-5	1,1,2-Trichloroethane	42	U
127-18-4	Tetrachloroethene	42	U
591-78-6	2-hexanone	100	U
124-48-1	Dibromochloromethane	42	U
106-93-4	1,2-Dibromoethane	42	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMW56-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718DA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 8.3

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	42	U
100-41-4	Ethylbenzene	42	U
100-42-5	Styrene	42	U
75-25-2	Bromoform	42	U
98-82-8	Isopropyl Benzene	42	U
79-34-5	1,1,2,2-Tetrachloroethane	42	U
541-73-1	1,3-Dichlorobenzene	42	U
106-46-7	1,4-Dichlorobenzene	42	U
95-50-1	1,2-Dichlorobenzene	42	U
96-12-8	1,2-Dibromo-3-Chloropropane	42	U
120-82-1	1,2,4-Trichlorobenzene	42	U
1330-20-7	Xylene (total)	42	U
79-20-9	Methyl acetate	42	U
110-82-7	Cyclohexane	42	U
108-87-2	Methylcyclohexane	42	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMW56-25DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610718

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610718DA59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/05/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 8.3

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.46	48	JD
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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13.					
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FORM I VOA-TIC

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMWEB01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610716

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610716B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.9	J
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	U
108-88-3	Toluene	1.5	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

9/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWMWEB01-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610716

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610716B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U UJ
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWMWEB01-25

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6107

Matrix: (soil/water) WATER Lab Sample ID: 610716

Sample wt/vol: 5 (g/ml) ML Lab File ID: 610716B59

Level: (low/med) LOW Date Received: 03/28/05

% Moisture: not dec. _____ Date Analyzed: 04/01/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.56	55	J
2.	UNKNOWN	8.05	5.2	J
3.				
4.				
5.				
6.				
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FORM I VOA-TIC

Gtrator

LDC #: 13397A1
SDG #: 6107
Laboratory: CompuChem

VALIDATION COMPLETENESS WORKSHEET
Level III

Date: 4/26/05
Page: 1 of 1
Reviewer: NG
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/21 - 25/05
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD, r2 SPCC RRF
IV.	Continuing calibration	SW	↓
V.	Blanks	SW	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	SW	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 4, 5
XVII.	Field blanks	SW	EB = 16, ACSGW EB02-25* from 6108 ~~ACSGW~~

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

*ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Water

1	1	ACSGWMW11-25	11	1*	ACSGWMW13-25	21	1*	ACSGWMW52-25	31 +1	VBLKTG
2	1	ACSGWMW12-25	12	1	ACSGWMW23-25	22	1*	ACSGWMW13-25MS	32 +1*	VBLKSS
3	1	ACSGWMW42-25	13	1	ACSGWMW28-25	23	1*	ACSGWMW13-25MSD	33 +3	VBLKWG
4	1	ACSGWMW45-25	14	1	ACSGWMW17-25	24			34	
5	1	ACSGWDUP01-25	15	1	ACSGWMW54R-25	25			35	
6	1	ACSGWMW44-25	16	1	ACSGWMWEB01-25	26			36	
7	1	ACSGWMW39-25	17	1	ACSGWMW55-25	27			37	
8	1	ACSGWMW32-25	18	2	ACSGWMW56-25	28			38	
9	1	ACSGWMW31-25	19	3	ACSGWMW56-25DL	29			39	
10	1	ACSGWMW08-25	20	1*	ACSGWMW37-25	30			40	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Cyclohexane
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Methylcyclohexane
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN Methyl Acetate
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: [illegible]7A

SDG #: 6107

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: JVC

2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?

Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	4/01/05	GT050331B59	NNNN	26.88		1-17, VBLKTG	J/UJ/A
			↓				↓
	4/04/05	GT050404A59	↓	26.53		18, 20-23, VBLKS5	↓

LDC #: 13397A1
SDG #: 6107

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 2
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 4/04/05
Conc. units: ug/L
Associated Samples: 18, 20, 21 (ND)

Compound	Blank ID	Sample Identification								
	VBLKSS									
Methylene chloride	1.0									
Acetone										
CRQL										

Blank analysis date: 4/01/05
Conc. units: ug/L
Associated Samples: 1 – 17

Compound	Blank ID	Sample Identification								
	VBLKTG	2	3	4	8					
Methylene chloride										
Acetone										
Lab Artifact (10.98)	9.2	5.4/UB			6.2/UB					
(14.84)	6.1		10/UB	5.4/UB	5.5/UB					
(16.59)	8.0									
(18.76)	5.4									
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

C #: 339 L

SDG #: 6107

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 2 of 2

Reviewer: JVG

2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?

Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 4/05/05

Conc. units: ug/L

Associated Samples: 19

Compound	Blank ID	Sample Identification								
	VBLKWG	19 (8B)								
Methylene chloride										
Acetone	9.8	96/108UB								
CRQL										

Blank analysis date:

Conc. units:

Associated Samples:

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 13397A1
SDG #: 6107

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N /N/A Were field blanks identified in this SDG?
~~Y~~ N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: EB Associated Samples: ~~All except~~ 8-10, 12-15 (ND)

Compound	Blank ID 16	Blank ID___	Sample Identification							
Sampling Date	3/23/05									
Methylene chloride										
Acetone										
Chloroform										
QQQ	1.9									
CC	1.5									
CRQL										

Blank units:_____ **Associated sample units:**_____
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other:_____ Associated Samples:_____

Compound	Blank ID___	Blank ID___	Sample Identification							
Sampling Date										
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

SDG #: 6107

Surrogate Spikes

Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all surrogate %R within QC limits?

Y N N/A If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R out of outside of criteria?

#	Date	Sample ID	Surrogate	%Recovery (Limits)	Qualifications
		13	DCE	122 (80-120)	J dets/P
			↓	( )	↓
		17	↓	122 (↓)	↓
			↓	( )	
		19	↓	125 (↓)	J dets/A
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	QC Limits (Soil)	QC Limits (Water)
SMC1 (TOL) = Toluene-d8	81-117	88-110
SMC2 (BFB) = Bromofluorobenzene	74-121	86-115
SMC3 (DCE) = 1,2-Dichloroethane-d4	80-120	80-120
SMC4 (DFM) = Dibromofluoromethane	80-120	86-118

LDC #: 13397 A1
SDG #: 6107

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and CRQLs

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y N N/A Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		18	V > calib range	18	J dets / A

Comments: See sample calculation verification worksheet for recalculations

DC #: 13397A1
SDG #: 6107

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: DG
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	4	5	
V	2.4	2.3	4
DD	12	12	0
LLLL	3.2	3.2	0
MMMM	3.2	3.1	3

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: March 29, 2005

LDC Report Date: April 28, 2005

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level III

Laboratory: CompuChem

Sample Delivery Group (SDG): 6125

Sample Identification

ACSGWDUP04-25
ACSGWDUP04-25DL
ACSGWEB04-25
ACSGWTB02-25

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for selected compounds.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

Average relative response factors (RRF) for all system performance check compounds (SPCCs) were within method criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
4/12/05	Bromomethane	69.43	ACSGWEB04-25 ACSGWTB02-25 VBLKXG	J (all detects) UJ (all non-detects)	A
4/7/05	Dichlorodifluoromethane Chloromethane	79.38 47.50	ACSGWDUP04-25 ACSGWDUP04-25DL VBLKAM	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values for all system performance check compounds (SPCCs) were within method criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKXG	4/7/05	Acetone	7.5 ug/L	ACSGWEB04-25 ACSGWTB02-25

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
ACSGWEB04-25	Acetone	8.5 ug/L	13UB ug/L

Sample ACSGWTB02-25 was identified as a trip blank. No volatile contaminants were found in this blank.

Sample ACSGWEB04-25 was identified as an equipment blank. No volatile contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
ACSGWEB04-25	3/29/05	Acetone	8.5 ug/L	ACSGWDUP04-25 ACSGWDUP04-25DL

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
ACSGWTB02-25	1,2-Dichloroethane-d4	121 (80-120)	All TCL compounds	J (all detects)	P
VBLKAM	Bromofluorobenzene	123 (80-120)	All TCL compounds	J (all detects)	P
ACSGWDUP04-25	Bromofluorobenzene	123 (80-120)	All TCL compounds	J (all detects)	P
ACSGWDUP04-25DL	Bromofluorobenzene	127 (80-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
ACSGWDUP04-25	Benzene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples ACSGWDUP04-25 and ACSGWMW48-25 (from SDG 6108) and samples ACSGWDUP04-25DL and ACSGWMW48-25DL (from SDG 6108) were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	ACSGWDUP04-25	ACSGWMW48-25	
Chloroethane	13	19	38
Benzene	330	330	0

Compound	Concentration (ug/L)		RPD
	ACSGWDUP04-25DL	ACSGWMW48-25DL	
Methylene chloride	5.5	13U	200
Benzene	290	290	0
Toluene	3.0	13U	200

ACS-89
Volatiles - Data Qualification Summary - SDG 6125

SDG	Sample	Compound	Flag	A or P	Reason
6125	ACSGWEB04-25 ACSGWTB02-25	Bromomethane	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
6125	ACSGWDUP04-25 ACSGWDUP04-25DL	Dichlorodifluoromethane Chloromethane	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
6125	ACSGWTB02-25 ACSGWDUP04-25 ACSGWDUP04-25DL	All TCL compounds	J (all detects)	P	Surrogate recovery (%R)
6125	ACSGWDUP04-25	Benzene	J (all detects)	A	Compound quantitation and CRQLs

ACS-89
Volatiles - Laboratory Blank Data Qualification Summary - SDG 6125

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
6125	ACSGWEB04-25	Acetone	13UB ug/L	A

ACS-89
Volatiles - Field Blank Data Qualification Summary - SDG 6125

No Sample Data Qualified in this SDG

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP04-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612501

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612501A61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
75-71-8	Dichlorodifluoromethane	5.0	U	UJ
74-87-3	Chloromethane	5.0	U	UJ
75-01-4	Vinyl Chloride	5.0	U	
74-83-9	Bromomethane	5.0	U	
75-00-3	Chloroethane	13		J
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U	
67-64-1	Acetone	13	U	
75-09-2	Methylene Chloride	5.0	U	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl-tert-butyl ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
78-93-3	2-butanone	13	U	
67-66-3	Chloroform	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	330	E	J
107-06-2	1,2-Dichloroethane	5.0	U	
79-01-6	Trichloroethene	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	13	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	13	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP04-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612501

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612501A61

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP04-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612501

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612501DR61

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
75-71-8	Dichlorodifluoromethane	13	U	UJ
74-87-3	Chloromethane	13	U	UJ
75-01-4	Vinyl Chloride	13	U	
74-83-9	Bromomethane	13	U	
75-00-3	Chloroethane	13	U	
75-69-4	Trichlorofluoromethane	13	U	
75-35-4	1,1-Dichloroethene	13	U	
75-15-0	Carbon disulfide	13	U	
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U	
67-64-1	Acetone	31	U	
75-09-2	Methylene Chloride	5.5	DJ	J
156-60-5	trans-1,2-Dichloroethene	13	U	
1634-04-4	Methyl-tert-butyl ether	13	U	
75-34-3	1,1-Dichloroethane	13	U	
156-59-2	cis-1,2-Dichloroethene	13	U	
78-93-3	2-butanone	31	U	
67-66-3	Chloroform	13	U	
71-55-6	1,1,1-Trichloroethane	13	U	
56-23-5	Carbon Tetrachloride	13	U	
71-43-2	Benzene	290	D	J
107-06-2	1,2-Dichloroethane	13	U	
79-01-6	Trichloroethene	13	U	
78-87-5	1,2-Dichloropropane	13	U	
75-27-4	Bromodichloromethane	13	U	
10061-01-5	cis-1,3-Dichloropropene	13	U	
108-10-1	4-Methyl-2-pentanone	31	U	
108-88-3	Toluene	3.0	DJ	J
10061-02-6	trans-1,3-Dichloropropene	13	U	
79-00-5	1,1,2-Trichloroethane	13	U	
127-18-4	Tetrachloroethene	13	U	
591-78-6	2-hexanone	31	U	
124-48-1	Dibromochloromethane	13	U	
106-93-4	1,2-Dibromoethane	13	U	

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWDUP04-25DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612501

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612501DR61

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/12/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB04-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612502

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612502A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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 UJ
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	8.5	JB 13UB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

Papalos 9/9

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWEB04-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612502

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612502A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWTB02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612503

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612503A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

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 UJ
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	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
79-01-6	Trichloroethene	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	13	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	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U

FORM I VOA

4/29/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWTB02-25

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6125

Matrix: (soil/water) WATER Lab Sample ID: 612503

Sample wt/vol: 5 (g/ml) ML Lab File ID: 612503A59

Level: (low/med) LOW Date Received: 03/30/05

% Moisture: not dec. _____ Date Analyzed: 04/07/05

GC Column: ZB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	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
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

4/29/05

LDC #: 13397C1
SDG #: 6125
Laboratory: CompuChem

VALIDATION COMPLETENESS WORKSHEET
Level III

Date: 4/26/05
Page: 1 of 1
Reviewer: JTC
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/29/05
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD, r² SPCC RRF
IV.	Continuing calibration	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	N	Client specified
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	SW	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D1 = 1 + ACSGWMW 48-25 D2 = 2 + ACSGWMW48-25D1 (from 6108)
XVII.	Field blanks	SW	EB = 3 *TB = 4

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
*ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: Water

1	ACSGWDUP04-25	11		21		31	
2	ACSGWDUP04-25DL	12		22		32	
3	ACSGWEB04-25	13		23		33	
4	ACSGWTB02-25	14		24		34	
5	VBLKXG	15		25		35	
6	VBLKAM	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL.
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM.
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-Isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 13399C1
SDG #: G125

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	4/12/05	CU050412AG1	B	69.43		3, 4, VBLKXG	J/UJ/A
	4/07/05	GT050407A59	JJ	79.38		1, 2, VBLKAM	— —
			A	47.50		↓	↓

Lab #: 1,579 | CALIBRATION CONDITIONS WORKSHEET | Page 11

SDG #: 4125

Blanks

Reviewer: JVC

2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?

Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 4/07/05

Conc. units: ug/L

Associated Samples: 3, 4

Compound	Blank ID	Sample Identification								
	VBLKXG	3								
Methylene chloride										
Acetone	7.5	8.5/13UB								
CRQL										
TICs:										
Hexamethyl-cyclotrisiloxane										
Octamethyl-cyclotetrasiloxane										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 13397C
SDG #: 6125

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: EB Associated Samples: 1, 2 (ND)

Compound	Blank ID 3	Blank ID ___	Sample Identification							
Sampling Date	3/29/05									
Methylene chloride										
Acetone	8.5									
Chloroform										
CRQL										

Blank units: _____ **Associated sample units:** _____
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: _____ Associated Samples: _____

Compound	Blank ID ___	Blank ID ___	Sample Identification							
Sampling Date										
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LL...: 1, 791 ALI IOI NDI S W CSH e:

SDG #: 6125

Surrogate Spikes

Reviewer: JVG

2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all surrogate %R within QC limits?

Y N N/A If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R out of outside of criteria?

#	Date	Sample ID	Surrogate	%Recovery (Limits)	Qualifications
		4	DCE	121 (80-120)	J dets /P
				( )	
		VBLK AM	BFB	123 ( )	
				( )	
		7		123 ( )	
				( )	
		8		127 ( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	QC Limits (Soil)	QC Limits (Water)
SMC1 (TOL) = Toluene-d8	81-117	88-110
SMC2 (BFB) = Bromofluorobenzene	74-121	86-115
SMC3 (DCE) = 1,2-Dichloroethane-d4	80-120	80-120
SMC4 (DFM) = Dibromofluoromethane	80-120	86-118

LDC #: 13397C1
SDG #: 6175

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and CRQLs

Page: 1 of 1
Reviewer: JC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y N N/A Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		1	√ >calib range	1	J dets /A

Comments: See sample calculation verification worksheet for recalculations

LDC #: 133970I
SDG #: 6125

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JVG
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	1	ACS GW MW 48-25	
D	13	19	38
V	330	330	0

Compound	Concentration ( )		RPD
	2	ACS GW MW 48-25DL	
E	5.5	13 U	200
V	290	290	0
CC	3.0	13 U	200

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Appendix D

MWH

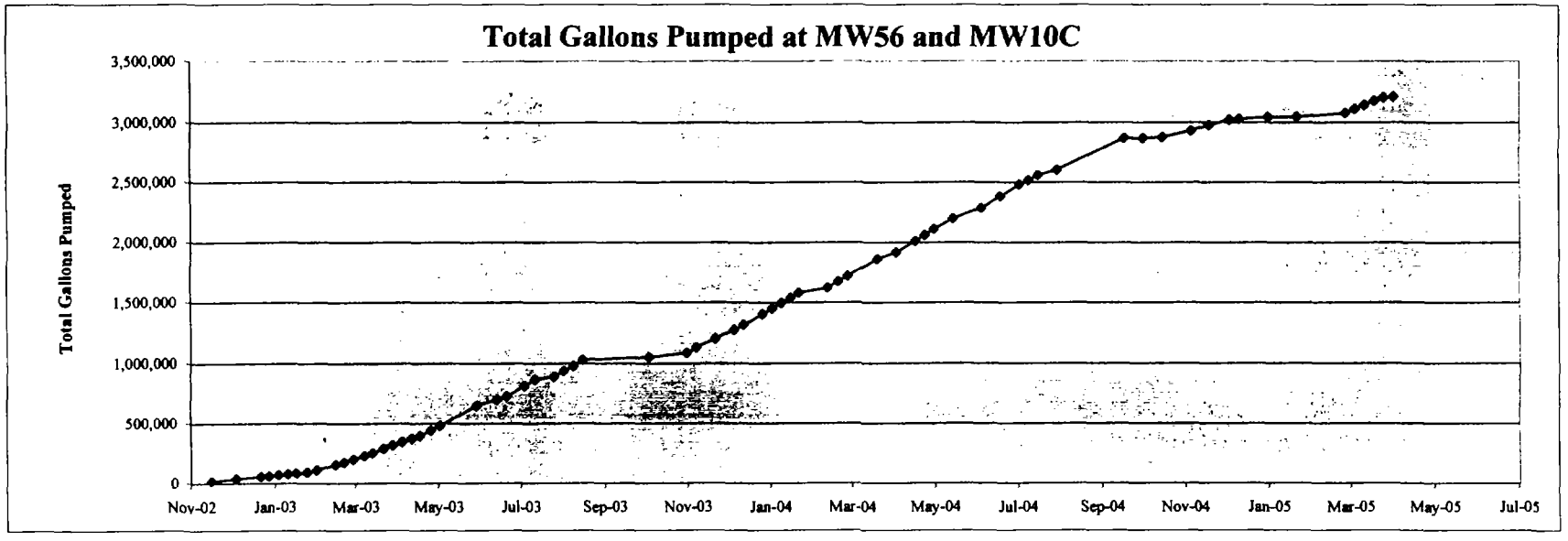
Combined Pumping Data for Lower Aquifer Monitoring Wells MW10C and MW56

MW56 and MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
11/15/02	1.5	12,200	---	---
12/03/02	1.5	33,200	18	1,167
12/21/02	2	51,710	18	1,028
12/27/02	2	56,450	6	790
01/03/03	2	65,040	7	1,227
01/10/03	2	71,710	7	953
01/16/03	2	78,960	6	1,208
01/24/03	2	86,420	8	933
01/31/03	2.5	106,980	7	2,937
02/14/03	2.5	149,520	14	3,039
02/20/03	2.5	168,760	6	3,207
02/27/03	2.5	192,340	7	3,369
03/07/03	3	221,820	8	3,685
03/13/03	3	245,790	6	3,995
03/21/03	3	283,850	8	4,758
03/28/03	3	312,860	7	4,144
04/04/03	3	340,160	7	3,900
04/11/03	3	368,300	7	4,020
04/17/03	3	391,290	6	3,832
04/25/03	3	436,960	8	5,709
05/02/03	3	477,520	7	5,794
05/29/03	3	643,430	27	6,145
06/13/03	3	695,070	15	3,443
06/20/03	3	719,810	7	3,534
07/03/03	3	807,950	13	6,780
07/11/03	3	862,080	8	6,766
07/25/03	4	884,190	14	1,579

MW56 and MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
08/01/03	4	934,060	7	4607
08/08/03	4	971,910	7	5,407
08/15/03	4	1,022,370	7	7,209
10/03/03	4	1,045,300	49	468
10/31/03	4	1,078,690	28	1,193
11/07/03	4	1,123,180	7	6,356
11/21/03	4	1,193,840	14	5,047
12/05/03	4	1,267,440	14	5,257
12/12/03	4	1,307,410	7	5,710
12/26/03	4	1,398,390	14	6,499
01/02/04	4	1,444,530	7	6,591
01/09/04	4	1,489,220	7	6,384
01/16/04	4	1,535,480	7	6,609
01/22/04	4	1,574,780	6	6,550
02/12/04	4	1,616,680	21	1,995
02/20/04	4	1,668,820	8	6,518
02/27/04	4	1,713,950	7	6,447
03/19/04	4	1,857,440	21	6,833
04/02/04	4	1,913,180	14	3,981
04/16/04	4	2,007,400	14	6,730
04/23/04	4	2,056,520	7	7,017
04/30/04	4	2,105,780	7	7,037
05/14/04	4	2,194,180	14	6,314
06/04/04	4	2,280,390	21	4,105
06/18/04	4	2,378,290	14	6,993
07/02/04	4	2,476,180	14	6,992
07/09/04	4	2,514,210	7	5,433

MW56 and MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons	Days Between Measurements	Gallons per Day
07/16/04	4	2,553,780	7	5,653
07/30/04	4	2,597,030	14	3,089
09/17/04	0	2,863,480	49	5,438
10/01/04	0	2,863,480	14	0
10/15/04	0	2,871,660	14	584
11/05/04	2	2,923,790	21	2,482
11/18/04	2	2,971,110	13	3,640
12/03/04	0	3,014,400	15	2,886
12/10/04	2	3,021,400	7	1,000
12/31/04	4	3,034,500	21	624
01/21/05	2	3,037,830	21	159
02/25/05	4	3,069,870	35	915
03/04/05	4	3,102,750	7	4,697
03/11/05	4	3,135,690	7	4,706
03/18/05	4	3,168,010	7	4,617
03/25/05	4	3,195,480	7	3,924
04/01/05	4	3,203,490	7	1,144

GPM - Gallons per minute



J:\209\0603 ACS\Database\GW Monitoring/MW10C_MW56.xls[TOTAL]

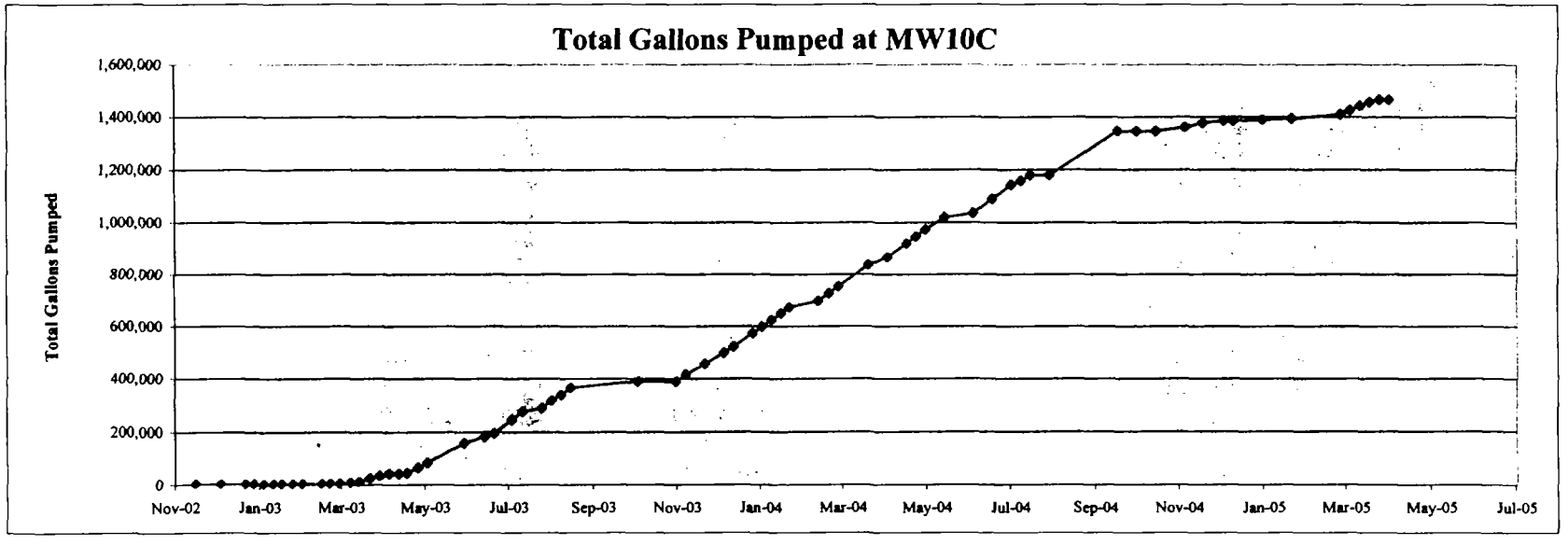
Pumping Data for Lower Aquifer Monitoring Well MW10C

MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
11/15/02	0.5	1,580	---	---
12/03/02	0.5	1,580	18	0
12/21/02	0.5	1,580	18	0
12/27/02	0.5	1,580	6	0
01/03/03	0.5	1,580	7	0
01/10/03	0.5	1,580	7	0
01/16/03	0.5	1,580	6	0
01/24/03	0.5	1,580	8	0
01/31/03	0.5	1,580	7	0
02/14/03	0.5	2,210	14	45
02/20/03	0.5	2,210	6	0
02/27/03	0.5	2,210	7	0
03/07/03	1	5,840	8	454
03/13/03	1	9,350	6	585
03/21/03	1	22,470	8	1,640
03/28/03	1	32,930	7	1,494
04/04/03	1	40,800	7	1,124
04/11/03	1	40,810	7	1
04/17/03	1	42,750	6	323
04/25/03	1	63,370	8	2,578
05/02/03	1	81,750	7	2,626
05/29/03	1	156,790	27	2,779
06/13/03	1	180,950	15	1,611
06/20/03	1	192,880	7	1,704
07/03/03	1	242,300	13	3,802
07/11/03	1	272,930	8	3,829
07/25/03	2	285,410	14	891

MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
08/01/03	2	313,850	7	4,063
08/08/03	2	335,510	7	3,094
08/15/03	2	364,550	7	4,149
10/03/03	2	387,450	49	467
10/31/03	2	388,270	28	29
11/07/03	2	414,050	7	3,683
11/21/03	2	454,920	14	2,919
12/05/03	2	496,910	14	2,999
12/12/03	2	519,610	7	3,243
12/26/03	2	571,330	14	3,694
01/02/04	2	597,570	7	3,749
01/09/04	2	622,910	7	3,620
01/16/04	2	649,150	7	3,749
01/22/04	2	671,460	6	3,718
02/12/04	2	695,330	21	1,137
02/20/04	2	725,160	8	3,729
02/27/04	2	751,020	7	3,694
03/19/04	2	832,820	21	3,895
04/02/04	2	864,160	14	2,239
04/16/04	2	916,440	14	3,734
04/23/04	2	942,880	7	3,777
04/30/04	2	969,850	7	3,853
05/14/04	2	1,018,210	14	3,454
06/04/04	2	1,032,860	21	698
06/18/04	2	1,086,740	14	3,849
07/02/04	2	1,140,680	14	3,853
07/09/04	2	1,155,710	7	2,147

MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/16/04	2	1,176,790	7	3,011
07/30/04	2	1,177,420	14	45
09/17/04	0	1,343,810	49	3,396
10/01/04	0	1,343,810	14	0
10/15/04	0	1,343,810	14	0
11/05/04	2	1,357,770	21	665
11/18/04	2	1,374,910	13	1,318
12/03/04	0	1,383,070	15	544
12/10/04	2	1,382,350	7	-103
12/31/04	2	1,387,670	21	253
01/21/05	0	1,390,950	21	156
02/25/05	2	1,406,420	35	442
03/04/05	2	1,422,220	7	2,257
03/11/05	2	1,438,120	7	2,271
03/18/05	2	1,453,770	7	2,236
03/25/05	2	1,463,610	7	1,406
04/01/05	2	1,463,620	7	1

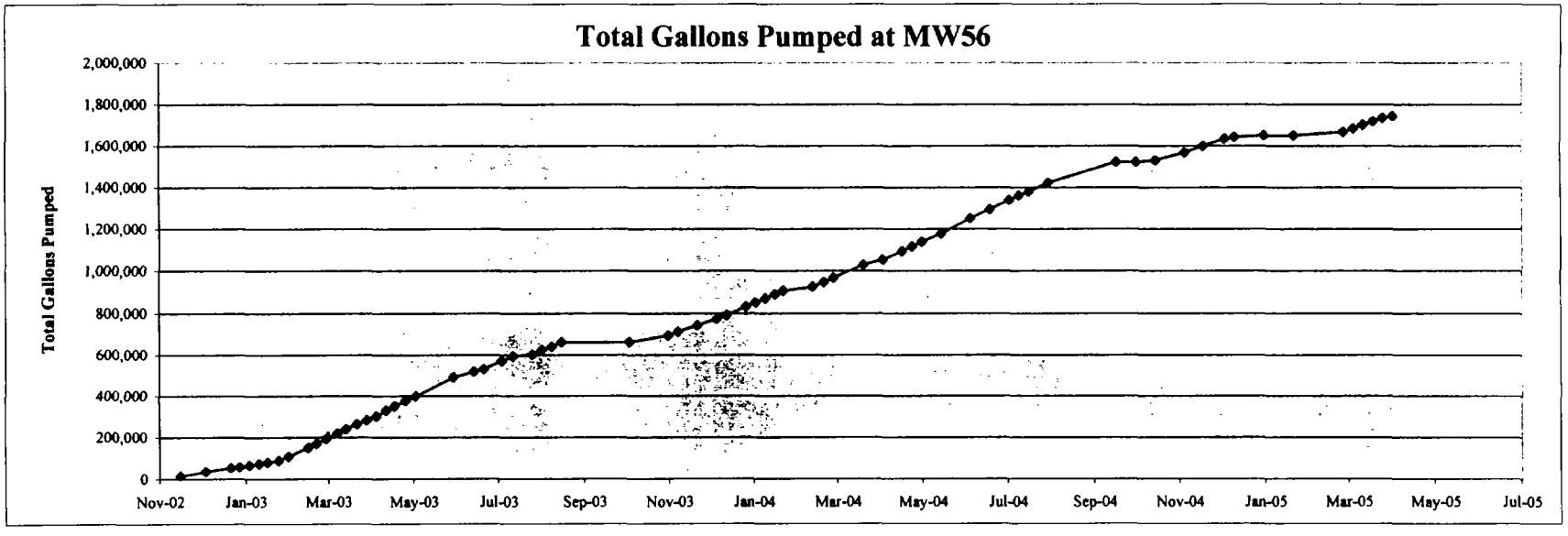
GPM - Gallons per minute



Pumping Data for Lower Aquifer Monitoring Well MW56

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
11/15/02	1	10,620	---	---
12/03/02	1	31,620	18	1,167
12/21/02	1.5	50,130	18	1,028
12/27/02	1.5	54,870	6	790
01/03/03	1.5	63,460	7	1,227
01/10/03	1.5	70,130	7	953
01/16/03	1.5	77,380	6	1,208
01/24/03	1.5	84,840	8	933
01/31/03	2	105,400	7	2,937
02/14/03	2	147,310	14	2,994
02/20/03	2	166,550	6	3,207
02/27/03	2	190,130	7	3,369
03/07/03	2	215,980	8	3,231
03/13/03	2	236,440	6	3,410
03/21/03	2	261,380	8	3,118
03/28/03	2	279,930	7	2,650
04/04/03	2	299,360	7	2,776
04/11/03	2	327,490	7	4,019
04/17/03	2	348,540	6	3,508
04/25/03	2	373,590	8	3,131
05/02/03	2	395,770	7	3,169
05/29/03	2	486,640	27	3,366
06/13/03	2	514,120	15	1,832
06/20/03	2	526,930	7	1,830
07/03/03	2	565,650	13	2,978
07/11/03	2	589,150	8	2,938
07/25/03	2	598,780	14	688

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
08/01/03	2	620,210	7	3,061
08/08/03	2	636,400	7	2,313
08/15/03	2	657,820	7	3,060
10/03/03	2	657,850	49	1
10/31/03	2	690,420	28	1,163
11/07/03	2	709,130	7	2,673
11/21/03	2	738,920	14	2,128
12/05/03	2	770,530	14	2,258
12/12/03	2	787,800	7	2,467
12/26/03	2	827,060	14	2,804
01/02/04	2	846,960	7	2,843
01/09/04	2	866,310	7	2,764
01/16/04	2	886,330	7	2,860
01/22/04	2	903,320	6	2,832
02/12/04	2	921,350	21	859
02/20/04	2	943,660	8	2,789
02/27/04	2	962,930	7	2,753
03/19/04	2	1,024,620	21	2,938
04/02/04	2	1,049,020	14	1,743
04/16/04	2	1,090,960	14	2,996
04/23/04	2	1,113,640	7	3,240
04/30/04	2	1,135,930	7	3,184
05/14/04	2	1,175,970	14	2,860
06/04/04	2	1,247,530	21	3,408
06/18/04	2	1,291,550	14	3,144
07/02/04	2	1,335,500	14	3,139
07/09/04	2	1,358,500	7	3,286

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/16/04	2	1,376,990	7	2,641
07/30/04	2	1,419,610	14	3,044
09/17/04	0	1,519,670	49	2,042
10/01/04	0	1,519,670	14	0
10/15/04	2	1,527,850	14	584
11/05/04	2	1,566,020	21	1,818
11/18/04	2	1,596,200	13	2,322
12/03/04	2	1,631,330	15	2,342
12/10/04	2	1,639,050	7	1,103
12/31/04	2	1,646,830	21	370
01/21/05	2	1,646,880	21	2
02/25/05	2	1,663,450	35	473
03/04/05	2	1,680,530	7	2,440
03/11/05	2	1,697,570	7	2,434
03/18/05	2	1,714,240	7	2,381
03/25/05	2	1,731,870	7	2,519
04/01/05	2	1,739,870	7	1,143

GPM - Gallons per minute