2006 ANNUAL GROUNDWATER MONITORING REPORT

for

Quality Analytical Services
Blue Summit, Missouri
EPA I.D. #MOD073027609

Prepared By:

Deffenbaugh Industries, Inc.
18181 West 53rd Street
Shawnee, Kansas 66217

February 28, 2007

2006 Annual Groundwater Monitoring Report

for

Quality Analytical Services Inc.
-
Kansas City

February 28, 2007

November 2006
Sampling Event

DEFFENBAUGH INDUSTRIES, INC.
POST OFFICE BOX 3220
SHAWNEE, KANSAS 66203
913-631-3300

February 28, 2007

Mr. Bruce Stuart, P.E.
Hazardous Waste Program
Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102

Re: 2006 Annual Groundwater Monitoring Report
Quality Analytical Services

Mr. Stuart:

In accordance with Missouri Department of Natural Resource's reporting requirements, the above referenced groundwater monitoring data is submitted for the Quality Analytical Service's Kansas City facility for the Annual post closure sampling event of 2006.

The groundwater report includes a summary of the analytical results, copies of the laboratory analytical report, field notes, and chain-of-custody documentation. Also included are maps illustrating groundwater flow and chemical impacts, and time series charts showing chemical impacts over time.

If you have any questions or require any additional information, please contact me at (913) 631-3300 ext. 1255, or Mr. Mick Cossairt at ext. 1207.

Sincerely,

Chris Eaton
Project Geologist

Enclosures

cc: Ronald D. Deffenbaugh, – Cover Letter
Mick Cossairt, R.G.
David Garrett; EPA
Darleen Groner; MDNR

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STATE OF MISSOURI
JAMES M. COSSAIRT
2-28-07
RG 0775
REGISTERED GEOLOGIST

February 28, 2007

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Section 1.0

1.0 SUMMARY

Since 1986 a total of 114 borings have been advanced at the Quality Analytical Services (QAS) facility both on and off site. Of these, 77 were plugged on completion. Thirty-three borings were completed as monitoring wells, and four were completed as extraction wells. Nine of the monitoring wells were later plugged and abandoned. Twenty-four monitoring and four extraction wells currently remain at the site. Each of the 24 remaining monitoring wells is currently monitored annually, in the fall. Thirteen of the 24 monitoring wells are sampled during the spring semiannual event. Four of the monitoring wells, which contain light non-aqueous phase liquid (LNAPL), also referred to as "free product", are sampled during the fall event using QED Micro-purge pumps. Below is a table of wells that are in the monitoring well network. Wells identified with bold formatting contained product during the monitoring event.

Fall Annual Monitoring Events		Spring Semi-Annual Monitoring Events	
GW-1	GW-9B	GW-1	GW-12A
GW-2R	GW-10A	GW-5	GW-12B
GW-3	GW-10B	GW-6B	GW-12C
GW-4	GW-10C	GW-7	
GW-5	GW-11A	GW-8B	
GW-6A	GW-11B	GW-8C	
GW-6B	GW-11C	GW-9B	
GW-7	GW-12A	GW-10B	
GW-8A	GW-12B	GW-10C	
GW-8B	GW-12C	GW-11A	
GW-8C	**EPA-R1**	GW-11B	
GW-9A	EPA-R3	GW-11C	

Ground water elevation data was collected at the monitoring wells before any sampling was conducted. Each groundwater sample was collected within 24 hours of purging the respective well.

Well Placement

Monitoring wells EPA-R1 and EPA-R3, installed in 1986, are located to the west and south of the facility, respectively. Monitoring wells GW-1, and GW-2, installed in the summer of 1992, are located to the up gradient and side gradient of the facility, respectively. Monitoring wells GW-3 and GW-4, installed in the summer of 1992, are located down gradient of the facility. Wells GW-5, GW-6A, GW-6B, and GW-7 were installed in March 1994. Wells GW-5 and GW-7 are side gradient wells. Wells GW-6A and GW-6B are down gradient wells, located to the west of EPA-R1. Groundwater monitoring wells GW-8A and GW-8B, installed in the summer of 1995, are located further down gradient. Wells GW-9A, GW-9B, GW-10A, and GW-10B, installed in November 1997 to determine the extent of the detected contaminate migration, are also located down gradient. A cap, including an extraction trench, was installed at the QAS site in 2000 in conjunction with the closure activities. During the construction of the cap, monitoring well GW-2 was damaged by construction equipment. The well was subsequently drilled out and replaced at the same location with monitoring well GW-2R. Wells GW-11A, GW-11B, and GW-11C were installed in August 2001 as part of QAS's RCRA facility investigation and Post Closure activities. They are intended to provide data from within the dissolved phase plume. Monitoring wells GW-12A, GW-12B, and GW-12C were installed in November 2003 to monitor impacts to the groundwater down gradient of the site. Monitoring wells GW-8C and GW-10C were installed in May 2005 to further define the extents of impacted groundwater in the C-Horizon.

Extraction wells PW-1 and PW-2 were installed in May 2002 and extraction wells PW-3 and PW-4 were installed in May 2003. These four extraction wells are located near the property line, down gradient of the facility, and west of the GW-11 cluster. The purpose of the extraction well network is to capture the plume that is migrating west, towards the Blue River. Figure 1 illustrates the general site layout and well locations in this area. Figure 2, Site Detail Map, provides a more detailed view of the site conditions.

Section 2.0

2.0 GROUNDWATER SAMPLING AND ANALYSIS

2.1 SAMPLING FREQUENCY

On November 20 and 21, 2006, groundwater sampling activities were conducted at the QAS Kansas City site. The purpose of the groundwater monitoring program at QAS is to assess the rate and extent of contaminate transport at the site. Samples collected at the site were submitted to Environmental Science Corporation (ESC), Mount Juliet, Tennessee for chemical analyses. Select groundwater samples were also submitted to Weck Laboratories, Inc. (Weck), City of Industry, California for 1,4-Dioxane (low level isotope dilution) analysis by EPA Method 8270M. Analytical reports and chain-of-custody documentation are included in Appendix B.

2.2 GROUNDWATER LEVEL MEASUREMENTS

Groundwater level measurements, groundwater elevation data, and well depth information were recorded on November 20, 2006, at the QAS site, and are presented in Table 2. Figures 3.1 through 3.3 are the November 20, 2006 potentiometric surface maps for the QAS facility in the A, B, and C-Horizons, respectively. These figures, as well as a generalized geologic description of each horizon, are discussed in Section 3.0 – Hydrogeology.

Groundwater Elevation Data - Groundwater levels and total depth measurements in the monitored wells were measured and recorded on the same date, prior to purging and sampling.

Groundwater elevations and total depth (TD) measurements at each well location are presented in Table 2.

2.3 GROUNDWATER SAMPLING

To ensure that representative groundwater samples were consistently obtained, prior to sampling a minimum of three well volumes of water was evacuated from the monitoring wells that did not contain free product. During the annual monitoring events, groundwater samples are also collected from wells that contained LNAPL. The dedicated QED Micro-Purge equipment was utilized to obtain groundwater samples from below the LNAPL-water interface. Temperature, conductivity, pH, and turbidity measurements were recorded for each well and are included in Appendix D. Ground water samples were then collected into the appropriate laboratory prepared sample bottles and stored in a cooler with ice until they could be transported to the laboratory. Groundwater sampling was preformed following the "Ground Water Sampling Procedures" guideline found in the Groundwater Monitoring and Sampling Plan for QAS, October 2003.

2.4 GROUND WATER ANALYTICAL RESULTS

Analytical results of groundwater samples collected during the 2006 annual monitoring event are presented in Table 1. ESC analyzed each of the samples, while Weck analyzed select samples for 1,4-Dioxane (low level) only. Please note that, as recommended in the Shaw Environmental & Infrastructure, Inc. (Shaw) data validation report, the 1,4-dioxane data provided by Weck is utilized, if available. The Shaw data validation report is included in Appendix C. Water samples

from Free Product wells (EPA-R-1, GW-2R, GW-3, and GW-4) and system wells (PW-1 through PW-4 and Trench) are not discussed in this section.

2.4.1 WELL DETECTIONS

This subsection summarizes volatile organic compounds (VOCs), and total metals detected by the laboratory(s) and notes if these detections exceeded federal or state regulatory limits.

WELL EPA-R-3

- No VOCs were detected in the groundwater sample collected from monitoring well EPA-R-3 this monitoring event.
- Four metals; arsenic (1.1 ug/l), barium (220 ug/l), iron (320 ug/l), and manganese (210 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the level of concern on the Missouri 10 CSR 20-7 table. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-1

- No VOCs were detected in the groundwater sample collected from monitoring well GW-1 this monitoring event.
- Five metals; arsenic (13 ug/l), barium (130 ug/l), iron (2,200 ug/l), lead (8.9 ug/l) and manganese (130 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the level of concern

on the Missouri 10 CSR 20-7 table. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-5

- Monitoring well GW-5 was dry this monitoring event.

WELL GW-6A

- One VOC, 1,4-dioxane (1.7 ug/l) was detected this monitoring event.
- Six metals; arsenic (8.8 ug/l), barium (400 ug/l), chromium (28 ug/l), iron (25,000 ug/l), lead (25 ug/l) and manganese (380 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL values on the Missouri 10 CSR 20-7; and exceeded levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The lead concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded level of concern on the CALM table. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-6B

- Two VOCs; 1,1-dichloroethane (1,1-DCA) (1.7 ug/l) and cis-1,2-DCE (7.7 ug/l) were detected this monitoring event.
- Five metals; arsenic (7.2 ug/l), barium (660 ug/l), iron (38,000 ug/l), lead (6.9 ug/l) and manganese (490 ug/l) were detected this sampling event. The

arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7; and exceeded levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-7

- One VOC; 1,4-dioxane (8.5 ug/l) was detected during this monitoring event. The 1,4-dioxane concentration exceeded the levels of concern on the EPA Region IX PRG, EPA Region III RBC tables, and CALM tables.
- Five metals; arsenic (4 ug/l), barium (250 ug/l), iron (2,500 ug/l), lead (8.7 ug/l) and manganese (460 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7 tables. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-8A

- One VOC; 1,4-dioxane (1.0 ug/l) was detected during this monitoring event.
- Six metals; arsenic (6 ug/l), barium (330 ug/l), iron (7,400 ug/l), lead (11 ug/l), manganese (1,200 ug/l), and nickel (52 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX

PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-8B

- Two VOCs; 1,1-DCA (1.2 ug/l) and 1,4-dioxane (18 ug/l) were detected during this monitoring event. The 1,4-dioxane concentration exceeded the levels of concern on the EPA Region IX PRG, EPA Region III RBC tables, and CALM tables.
- Seven metals; arsenic (39 ug/l), barium (840 ug/l), chromium (48 ug/l), iron (42,000 ug/l), lead (71 ug/l), manganese (1,000 ug/l), and nickel (28 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7 and levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The lead concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded level of concern on the CALM table. The manganese concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC, and CALM tables, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-8C

- Four VOCs; 1,1-DCA (7.5 ug/l), cis-1,2-DCE (4.7 ug/l), 1,4-dioxane (140 ug/l),

and vinyl chloride (5.1 ug/l) were detected this monitoring event. The 1,4-dioxane concentration exceeded the levels of concern on the EPA Region IX PRG, and EPA Region III RBC, and CALM tables. The vinyl chloride concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables.

- Six metals; arsenic (16 ug/l), barium (1,300 ug/l), chromium (26 ug/l), iron (25,000 ug/l), lead (28 ug/l), and manganese (1,300 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7 and levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The lead concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded level of concern on the CALM table. The manganese concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC, and CALM tables, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-9A

- One VOC; 1,4-dioxane (1.3 ug/l) was detected in the sample collected from well GW-9A.
- Seven metals; arsenic (18 ug/l), barium (860 ug/l), chromium (86 ug/l), iron (67,000 ug/l), lead (75 ug/l), manganese (900 ug/l), and nickel (57 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of

concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7 and levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The lead concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded level of concern on the CALM table. The manganese concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC, and CALM tables, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-9B

- Two VOCs; cis-1,2-DCA (1.6 ug/l) and 1,4-dioxane (36 ug/l) were detected in the samples collected from well GW-9B. The 1,4-dioxane concentration exceeded the levels of concern on the EPA Region IX PRG, EPA Region III RBC and CALM tables.
- Five metals; arsenic (25 ug/l), barium (420 ug/l), iron (7,500 ug/l), lead (5 ug/l), and manganese (370 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-10A

- One VOC; 1,4-dioxane (1.2 ug/l) was detected in the sample collected from well

GW-10A.

- Seven metals; arsenic (12 ug/l), barium (450 ug/l), chromium (55 ug/l), iron (34,000 ug/l), lead (47 ug/l), manganese (620 ug/l) and nickel (30 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7 and levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The lead concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded level of concern on the CALM table. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-10B

- One VOC; 1,4-dioxane (26 ug/l) was detected in the sample collected from well GW-10B. The 1,4-dioxane concentration exceeded the levels of concern on the EPA Region IX PRG, EPA Region III RBC and CALM tables.
- Four metals; arsenic (34 ug/l), barium (400 ug/l), iron (9,100 ug/l), and manganese (290 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-10C

- Three VOCs; 1,4-dioxane (220 ug/l), MTBE (2.5 ug/l), and vinyl chloride (3.5 ug/l) were detected during this sampling event. The concentration of 1,4-dioxane exceeded the levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables. The vinyl chloride concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables.
- Five metals; arsenic (12 ug/l), barium (740 ug/l), iron (7,600 ug/l), lead (5.6 ug/l) and manganese (2,700 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7. The manganese concentration exceeded the levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-11A

- One VOC, 1,4-dioxane (11 ug/l), was detected in the groundwater sample collected from monitoring well GW-11A this monitoring event. The concentration of 1,4-dioxane exceeded the levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables.
- Six metals; arsenic (2.4 ug/l), barium (250 ug/l), chromium (12 ug/l), iron (8,600 ug/l), lead (12 ug/l) and manganese (91 ug/l) were detected this sampling

event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-11B

- Five VOCs; chloroethane (2.8 ug/l), cis-1,2-DCE (12 ug/l), 1,4-dioxane (330 ug/l), MTBE (8.3 ug/l), and trichloroethene (3 ug/l) were detected during this monitoring event. The concentration of 1,4-dioxane exceeded levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables. The MTBE concentration exceeded levels of concern on the EPA Region III RBC table. The trichloroethene concentration exceeded levels of concern on the EPA Region IX PRG and EPA Region III RBC tables.
- Seven metals; arsenic (15 ug/l), barium (300 ug/l), chromium (11 ug/l), iron (9,900 ug/l), lead (8.4 ug/l), manganese (430 ug/l), and nickel (40 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the Missouri 10 CSR 20-7. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-11C

- Seven VOCs; Chlorethane (7.2 ug/l), 1,1-DCA (21 ug/l), 1,1-dichloroethene (1.4 ug/l), cis-1,2-DCE (56 ug/l), 1,4-dioxane (1,900 ug/l), MTBE (15 ug/l), and

vinyl chloride (32 ug/l) were detected during this monitoring event. The Chlorethane concentration exceeded levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The 1,4-dioxane and MTBE concentrations exceeded levels of concern on the EPA Region IX PRG, EPA Region III RBC and CALM tables. The vinyl chloride concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables.

- Seven metals; arsenic (48 ug/l), barium (950 ug/l), chromium (45 ug/l), iron (41,000 ug/l), lead (44 ug/l), manganese (2,400 ug/l), and nickel (82 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL value on the EPA Region IX PRG, EPA Region III RBC, and Missouri 10 CSR 20-7. The lead concentration exceeded the level of concern on the CALM table, and the MCL values on the NPDWS and Missouri 10 CSR 20-7 tables. The manganese concentration exceeded the level of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-12A

- Two VOCs; cis-1,2-DCE (5.3 ug/l) and 1,4-dioxane (6.1 ug/l) were detected in the groundwater sample collected from monitoring well GW-12A this monitoring event. The 1,4-dioxane concentration exceeded level of concern on the CALM table and was equal to the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables.

- Nine metals; arsenic (22 ug/l), barium (1,600 ug/l), cadmium (9.4 ug/l), chromium (210 ug/l), iron (160,000 ug/l), lead (170 ug/l), manganese (11,000 ug/l), mercury (0.3 ug/l), and nickel (230 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The cadmium concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables. The chromium concentration exceeded the MCL values on the Missouri 10 CSR 20-7 and NPDWS tables; and exceeded levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables. The iron concentration exceeded the MCL value on the EPA Region IX PRG, EPA Region III RBC, and Missouri 10 CSR 20-7. The lead concentration exceeded the levels of concern on the CALM table, and the MCL values on the NPDWS and Missouri 10 CSR 20-7 tables. The nickel concentration exceeded the levels of concern on the CALM table, and the MCL value on the Missouri 10 CSR 20-7 tables. The manganese concentration exceeded the levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-12B

- One VOC; 1,4-dioxane (1.6 ug/l) was detected during this monitoring event.
- Seven metals; arsenic (35 ug/l), barium (500 ug/l), chromium (64 ug/l), iron (41,000 ug/l), lead (57 ug/l), manganese (880 ug/l), and nickel (39 ug/l) were

detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL values on the EPA Region IX PRG, EPA Region III RBC, and Missouri 10 CSR 20-7. The lead concentration exceeded the level of concern on the CALM table, and the MCL values on the NPDWS and Missouri 10 CSR 20-7 tables. The manganese concentration was equal to or exceeded the levels of concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables, and the MCL value on the Missouri 10 CSR 20-7 table.

WELL GW-12C

- One VOC; 1,4-dioxane (74 ug/l) was detected during this monitoring event. The 1,4-dioxane concentration exceeded levels of concern on the EPA Region IX PRG, EPA Region III RBC and CALM tables.
- Six metals; arsenic (10 ug/l), barium (1,000 ug/l), chromium (30 ug/l), iron (28,000 ug/l), lead (28 ug/l), and manganese (2,000 ug/l) were detected this sampling event. The arsenic concentration exceeded the levels of concern on the EPA Region IX PRG and EPA Region III RBC tables. The iron concentration exceeded the MCL values on the EPA Region IX PRG, EPA Region III RBC, and Missouri 10 CSR 20-7. The lead concentration exceeded the level of concern on the CALM table, and the MCL values on the NPDWS and Missouri 10 CSR 20-7 tables. The manganese concentration was equal to or exceeded the levels of

concern on the EPA Region IX PRG, EPA Region III RBC, and CALM tables, and the MCL value on the Missouri 10 CSR 20-7 table.

2.4.2 FREE PRODUCT WELLS

Wells GW-2R, GW-3, GW-4, and EPA-R1 are wells, which contain, or have contained LNAPL. These wells are designated as the free product wells. Below is a table with the product thickness, measured during the November 2006 annual monitoring event.

Free Product Well Chart	
Well Identification	Product Thickness
GW-2R	<0.01 ft.
GW-3	0.23 ft.
GW-4	1.62 ft.
EPA-R1	0.03 ft.

As shown, free product was not present in well GW-2R. Since GW-2 was replaced during the construction of the cap, GW-2R has not contained measurable free product, although a thin film is often noticed on the free product/water level probe. QAS feels that the excavation of impacted soil at the site has removed the source of product at GW-2R. Well GW-2R will continue to be designated as a Free Product well for the immediate future. The Free Product Well Chart above will continue to display <0.01ft. if free product is not detected with the product/water level probe.

Ground water elevations in the free product wells have been corrected due to the presence of free product (Table 2). The corrected water elevation is an estimation of static water elevation, if

there were no free product depressing static water elevation in the Free Product wells. Corrected water elevation is calculated as follows: product thickness is multiplied by 0.8, that number is then added to the Static Water Level. The new number is the Corrected Water Level. The multiplier 0.8 is used as an approximation of the average specific gravity for the free product in the product wells.

2.5 Quality Assurance / Quality Control

For the sampling event, trip blanks were made at the ESC laboratory. Trip blanks are used to ensure that no contamination is introduced to the samples from the laboratory. The trip blanks traveled with the groundwater samples in the cooler until analyzed for VOCs at ESC. No VOCs were detected in the trip blanks. A duplicate sample was taken in the field from one of the wells to ensure the accuracy of the each laboratory. The ESC and Weck duplicates, were collected during the November 2006 annual monitoring event was from well GW-10B. Results from the duplicates were comparable to the GW-10B sample. The static water level meter was the only piece of equipment that came into contact with more than one well; therefore, the static water level meter was decontaminated between wells when measuring static water levels. A rinsate blank sample was collected for VOC analysis by pouring distilled water over the water level meter after decontamination. No VOCs were detected in the rinsate blank sample. A field blank was inadvertently not collected during this sampling event. Chain-of-custodies were used to document all personnel handling the samples from the point of sampling and packing to arrival at the laboratory. The groundwater samples were analyzed within holding time.

A data validation report, generated by Shaw, is included as Appendix C. Duplicates and spikes were analyzed for each batch of samples. ESC and Weck Matrix spike and matrix spike duplicate samples were collected of sample GW-8B, as detailed in the Shaw Data Validation Report.

Individual compounds J-flagged on the laboratory analytical report as required. All results are considered valid for analytical results reported by ESC and Weck laboratories. For the purposes of this report, when both ESC and Weck analyzed a sample for 1,4-dioxane; the Weck data is reported, as recommended in the data validation report. Specific information regarding the samples analyzed is contained in the data validation narrative found in the Shaw report.

2.6 VOC Isopac Maps

Isopac maps have been prepared for compounds detected at three or more down gradient locations. The compounds mapped were: benzene, 1,2-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichlororoethene, 1,4-dioxane, MTBE, 1,2,4-trimethylbenzene, vinyl chloride, and total xylenes. Three separate Isopac maps were produced for 1,4-dioxane, to further illustrate the presence of this compound in separate stratographic zones (A, B, and C-Horizons). The Isopac maps are included as Figures 4 through 12.

<u>Benzene</u>

The Isopac map of benzene in groundwater is provided as Figure 4.0. This figure illustrates that benzene impacts are limited to the Free Product wells. The highest concentration was 110 ug/l in the GW-3 sample. The plume is well defined across the site and the concentrations in the

samples collected from the perimeter wells to the south, west, and east were below the laboratory detection limits (1.0 ug/l).

1,2-Dichlorobenzene

The Isopac map of 1,2-Dichlorobenzene in groundwater is provided as Figure 5.0. This figure illustrates that the benzene impacts are limited to the Free Product wells. The plume is well defined across the site and the concentrations in the samples collected from the perimeter wells to the west, south, and east were either below the laboratory detection limits (1.0 ug/l) or the lowest level of concern (270 ug/l).

1,1-Dichloroethane (1,1-DCA)

The Isopac map of 1,1-DCA in groundwater is provided as Figure 6.0. This figure illustrates that the most concentrated 1,1-DCA impacts are in the C-Horizon, near well GW-11C. The highest concentration of 1,1-DCA was 21 ug/l in the GW-11C sample. The 1,1-DCA concentrations in the samples collected from the perimeter wells to the west, south, and east were either below the laboratory detection limits (1.0 ug/l) or the lowest level of concern (800 ug/l).

Cis-1,2-DCE

The Isopac map of cis-1,2-DCE in groundwater is provided as Figure 7.0. This figure illustrates that the most concentrated cis-1,2-DCE impacts are in the B and C-Horizons, near well GW-11C. The highest concentration was 56 ug/l in the GW-11C sample; however cis-1,2-DCE was also detected at 5.3 ug/l in the downgradient GW-12A sample. The plume is well defined and the

cis-1,2-DCE concentrations in the samples collected from the perimeter wells to the north, south, and east were either below the laboratory detection limits (1.0 ug/l) or the lowest level of concern (61 ug/l).

1,4-Dioxane

The Isopac map of 1,4-dioxane in groundwater is provided for Figure 8.0. The 1,4-dioxane plume is most concentrated near the monitoring well GW-11C (1,900 ug/l). Although concentrations from each well are displayed on the figure, only the highest concentrations were utilized for contouring at well clusters.

Historically, the 1,4-dioxane impacts to the C-Horizon have been higher than in the A or B-Horizons. This generalization remains true with the individual monitoring well clusters.

MTBE

The Isopac map of methyl tert-butyl ether (MTBE) in groundwater is provided as Figure 9.0. This figure illustrates that the most concentrated MTBE impacts are near wells PW-3 and GW-11C. The highest concentration of MTBE was 15 ug/l in the GW-11C sample. The plume is well defined across the site and the MTBE concentrations in the samples collected from the perimeter wells to the north, south, and east were either below the laboratory detection limits (1.0 ug/l) or the lowest level of concern (2.6 ug/l).

1,2,4-Trimethylbenzene

The Isopac map of 1,2,4-Trimethylbenzene in groundwater is provided as Figure 10.0. This figure illustrates that the impacts are limited to the Free Product wells. The highest concentration was 130 ug/l in the EPA-R-1 sample. The remaining samples collected were either below the laboratory detection limits (1.0 ug/l) or the lowest level of concern (12 ug/l).

Vinyl Chloride

The Isopac map of vinyl chloride in groundwater is provided as Figure 11.0. This figure illustrates that the impacts are limited to the C-Horizon and are most concentrated near well GW-11C. The highest concentration of was 32 ug/l in the GW-11C sample.

Total Xylenes

The Isopac map of total xylenes in groundwater is provided as Figure 12.0. This figure illustrates that xylene impacts are limited to the Free Product wells. The highest concentration was 630 ug/l in the EPA-R-1 sample. The plume is well defined across the site and the concentrations in the samples collected from the perimeter wells to the west, south, and east were either below the laboratory detection limits (3.0 ug/l) or the lowest level of concern (210 ug/l).

2.7 Time Series Charts

Time-series charts have been prepared for the down-gradient wells that have reported detections of VOC's. These charts are located in Appendix A, and arranged in the order in which they are discussed in this section. A total of seven analytes have historically been detected in these wells.

The compound cis-1,2-DCE was added to the list of analytes during the second quarter of 2000. Analytes 1,4-dioxane and MTBE were added in the second quarter of 2002. The charts are prepared with analytical data from the date of each well installation to the present. The extraction well system was added as part of the interim measure during the second quarter of 2002. It was further modified with addition of two more wells in the second quarter of 2003.

A-Horizon:

The compounds 1,4-dioxane and cis-1,2-DCE rebounded slightly at GW-12A during this round of analysis at concentrations of 6.1 and 5.3 ug/l respectively. They were both reported non-detect in the previous round of analysis. The compounds MTBE and 1,1-DCA were reported non-detect for the second consecutive round of analysis.

B-Horizon:

The graph of well GW-6B documents the longest period of time. Concentrations of all detected compounds generally decreased over time until the extraction system was initiated during the second quarter 2002. Concentrations then began to increase at this well located adjacent to the extraction points. Compound concentrations from this sampling round decreased relative to the previous event, and the number of detected compounds decreased from five to three.

The graphs of wells GW-8B, GW-9B, and GW-10B show fluctuating concentrations over time. The compound 1,4-dioxane was reported at location GW-8B at a concentration of 18.0 ug/l which is increased from the previous round at 7.9 ug/l. The compound 1,1-DCA, which had

been non-detect for the previous four events, was also reported at a concentration of 1.2 ug/l at this location. The compound 1,4-dioxane was reported at location GW-9B at a concentration of 36 ug/l. This was an increase of 1 ug/l from the previous round, but remains within the range of concentrations reported from this well over the last two years. The compound cis-1,2-DCE, which had been non-detect for the previous four events, was also reported at this location at a concentration of 1.6 ug/l. Well GW-10B was reported with a concentration of 1,4-dioxane at 26 ug/l and remains at approximately the same concentration reported in the previous round of analysis. All other compounds were below the laboratory reporting levels at this location.

The compound 1,4-dioxane was reported in the sample collected from well GW-11B at a concentration of 330 ug/l. This was a significant increase in concentration relative to the sample from the previous event. Compounds cis-1,2-DCE and MTBE were both increased from concentrations reported in the previous round. Trichloroethene and 1,1-DCA were both reported at concentrations just above the reporting level for the first time several years. The compound 1,4-dioxane was reported in the sample collected from well GW-12B at a concentration of 1.6 ug/l continuing the steady decline from a high concentration of 13 ug/l reported in August 2004. There were no other compounds detected above the reporting level at this location.

C-Horizon:

Concentrations of 1,4-dioxane increased at location GW-8C. Concentrations of 1,1-DCA and vinyl chloride also increased from the previous round. The compound cis-1,2-DCE remained relatively unchanged, while both TCE and MTBE were not detected during this round.

The concentration of 1,4-dioxane was relatively unchanged at location GW-10C. Concentrations of MTBE (2.5 ug/l) and vinyl chloride (3.5 ug/l) both increased from the previous sampling round.

Concentrations of all compounds reported at location GW-11C rebounded from the significant decline that was observed in the previous round of analysis. Concentrations of 1,4-dioxane, chloroethane, and MTBE increased above concentrations reported from November 2005, but concentrations of cis-1,2-DCE, vinyl chloride, and 1,1-DCA are still significantly lower than was reported at that time.

The reported concentration of 1,4-dioxane at location GW-12C increased slightly from 68 ug/l to 74 ug/l, but remained within the range of historical detections. There were no other analytes detected above the laboratory reporting levels. Originally there were five compounds detected at this location when it was installed in 2003.

Product Wells:

Time series charts have also been prepared for wells equipped with micro-purge pumps installed below the LNAPL layer and also for the recovery trench. Concentrations of compounds have varied sporadically over time and some compounds were not detected in all events due to the dilution required for laboratory analysis.

It is difficult to draw many conclusions from the data depicted in graphs for EPA-R-1 and GW-3. Concentrations vary significantly over time and no clear trend is established. This may be due in part to the location of these wells that are down gradient with respect to the source area. However, the concentrations observed at location GW-4 may indicate a generally declining trend. Well GW-2R was reported non-detect for all compounds for the first time since this analysis was initiated. The compounds MTBE and cis-1,2-DCE were the only two compounds reported in the sample obtained from the recovery trench at concentrations of 3.8 and 2.8 ug/l respectively.

Section 3.0

3.0 HYDROGEOLOGY

Prior to 1997, the Blue River was located approximately 625 feet west of the QAS facility. In 1997, the Corp of Engineers relocated the Blue River farther west of the facility. QAS is located within the drainage of the Blue River and is approximately 3.5 miles south of the confluence of the Blue and Missouri Rivers. Under natural conditions, the groundwater flow direction generally follows the topographic surface, flowing from east to west. Three groundwater horizons have been identified:

Horizon ID	Approximate Depths (feet below ground surface)*		Generalized Lithology
	Top of Unit	Bottom of Unit	
A-Horizon	Ground Surface	Between 25 and 40	Silts and Clays
B-Horizon	25 to 40	75 (or bedrock)	Silts and Sands, grading to Sands and Gravels with depth
C-Horizon	Approx. 5-foot thick lens, at Approx. 40 to 50 feet bgs., hydraulically separating the A and B Horizons		Fine-grained, semi-consolidated sand

*Depths to and thicknesses of these horizons are variable across the site, and separate horizons have not been identified at each boring location. The Approximate Depths are included to provide the reader with a general understanding of site conditions and should not be utilized beyond that purpose.

The following paragraphs describe the groundwater flow direction within each horizon in detail. Figures 3.1 through 3.3 are potentiometric surface maps for the A-Horizon through the C-Horizon, respectively. The November 2006 monitoring event was conducted while the ground water extraction system was at off; therefore, the maps indicate conditions in a natural state, without the influence of the pump-and-treat extraction system. In previous monitoring reports, the potentiometric contours for the A and C horizons, indicated a westward flow, and the B-Horizon the potentiometric surface indicated a water table depression, due to operation of the ground water extraction system. The potentiometric data from the November 2006 monitoring

event indicate a generally westerly flow in each horizon. Figures 3.1 through 3.3 are the potentiometric surface maps for the A-Horizon, B-Horizon, and C-Horizon, respectively.

Horizontal Gradient – The horizontal gradient for each horizon was calculated and is displayed on Table 3.1. The horizontal gradient of the A-Horizon was determined using the static water level elevations of GW-8A, GW-10A, GW-11A and GW-12A. The upgradient static water elevation was subtracted from the static water elevation from the downgradient well (GW-12), and then was divided by the horizontal distance between the two wells. The average of the three gradients was also calculated in Table 3.1. The average horizontal gradient for the A-Horizon was calculated at 0.042 feet per foot to the west.

The horizontal gradient the B-Horizon was determined using the static water level elevations of GW-8B, GW-10B, GW-11B and GW-12B. The gradient was calculated with the same formula as was utilized for the A-Horizon. The average of the three gradients was also calculated in Table 3.1. The average horizontal gradient for the B-Horizon was calculated at 0.016 feet per foot to the west.

The horizontal gradient the C-Horizon was determined using the static water level elevations of GW-8C, GW-10C, GW-11C and GW-12C. The gradient was calculated with the same formula as was utilized for the A-Horizon. The average of the three gradients was also calculated and presented in Table 3.1. The average horizontal gradient for the C-Horizon was calculated at 0.021 feet per foot to the west.

Horizontal Groundwater Velocity - Groundwater velocity was computed using the average linear velocity formula. The hydraulic conductivity of a silty clay that occurs in the A-Horizon at QAS, as suggested by MDNR, is approximately 1.5×10^{-4} cm/sec. This number was converted to ft/day by multiplying it by a conversion factor of 2,835, which equals 4.25×10^{-1} ft/day. The porosity of that silty clay is estimated by MDNR to be 5%. The horizontal velocity was calculated on Table 3.2 to be 0.3549 feet per day in the A-Horizon.

Vertical Gradient - Table 3.3 summarizes the Vertical Hydraulic Gradient results from the A-Horizon to the C-Horizon at four well clusters in the vicinity of I-435. Table 3.4 summarizes the C-Horizon to B-Horizon vertical gradient data for the same well clusters. Vertical gradient was determined using the change in static water levels between adjacent horizons at the GW-8, GW-10, GW-11, and GW-12 well clusters. The change in water level elevations was divided by the vertical distance between the top of the two well screens.

Table 3.3 indicates that the vertical gradient between the A-Horizon and the C-Horizon is generally downward, with an average gradient of 0.061 ft/ft; however, at well cluster GW-12, the gradient was calculated to be slightly upward. This is consistent with data from previous monitoring events. Table 3.4 indicates that the vertical gradient between the C-Horizon and the B-Horizon is downward with an average gradient of 0.206 ft/ft.

Vertical Groundwater Velocity - Groundwater velocity was computed using the average linear velocity formula. Based on MDNR estimates, the hydraulic conductivity and the porosity of a silty clay that can be found in the A-Horizon at QAS, is estimated at 4.25×10^{-1} ft/day and 5%, respectively. The hydraulic conductivity and porosity assumptions have not been provided for the B and C-Horizon sediments; therefore, only the A-Horizon to C-Horizon vertical groundwater velocity is discussed in this subsection. The vertical velocity of the A-Horizon to C-Horizon is calculated on Table 3.5, based on the hydraulic gradient for four locations at the site. Vertical velocities ranged from 1.0079 feet per day upward to 1.7356 feet per day downward at well clusters GW-12 and GW-8, respectively.

Section 4.0

4.0 OPERATIONS AND MAINTENANCE

The 24 active groundwater monitoring wells at QAS are inspected for the following during each monitoring event:

- Well integrity is inspected. Any structural problems due to corrosion, accidents, or vandalism are recorded.
- All wells are inspected to ensure the identification numbers are marked clearly and properly.
- The latches and locks on the wells are inspected and maintained.
- The total depths at all wells are measured to determine if sediment has built up in the riser pipe.
- The extraction system is monitored (at a minimum) once per week, in order to assure continuous operation.

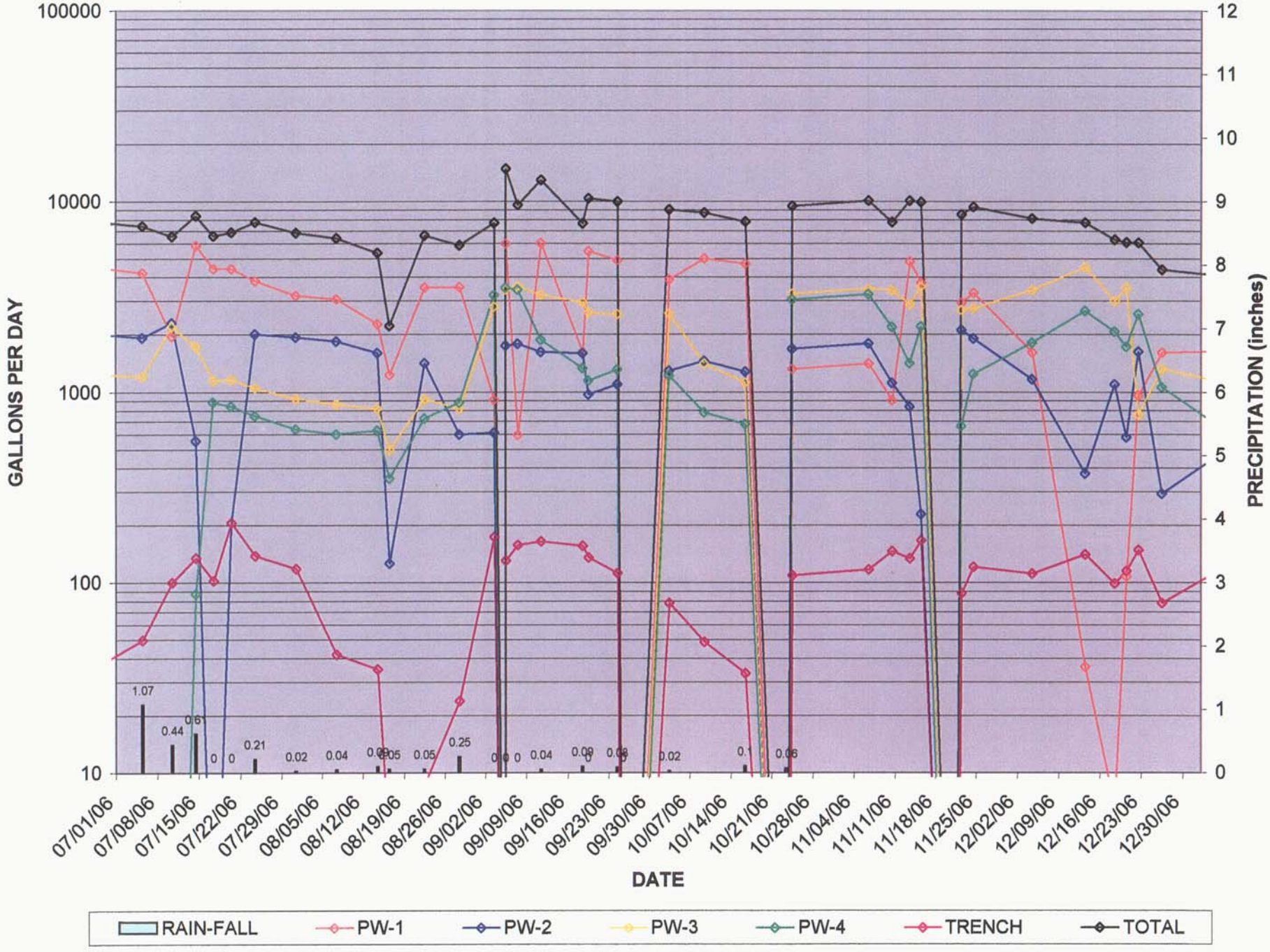
Interim Measure Operation

The extraction system was operated continuously over the reporting period with brief interruptions in September, October, and November. A chart of yield in gallons per day (g.p.d.) versus time has been prepared and is included following Section 4.0. This chart depicts the performance of the pumping system collectively, and for each of the components individually. Total yield varied between 0 (when the system was out-of-order) and approximately 15,000 g.p.d. and averaged approximately 7,000 g.p.d. over the reporting period.

Total yield is significantly impacted by the frequency and duration of precipitation events. The SOLO II pump located in the sump of the interceptor trench is the most directly impacted by precipitation events. The other extraction pumps are QED Hammerheads. Pump PW-2 failed and was repaired in the field during the month of July. Pump PW-3 was similarly addressed in December.

No significant siltation was observed in the extraction wells during the reporting period. Siltation at these extraction points is monitored annually. The wells will be redeveloped as required to assure system effectiveness.

EXTRACTIOn FLOW DATA



Section 5.0

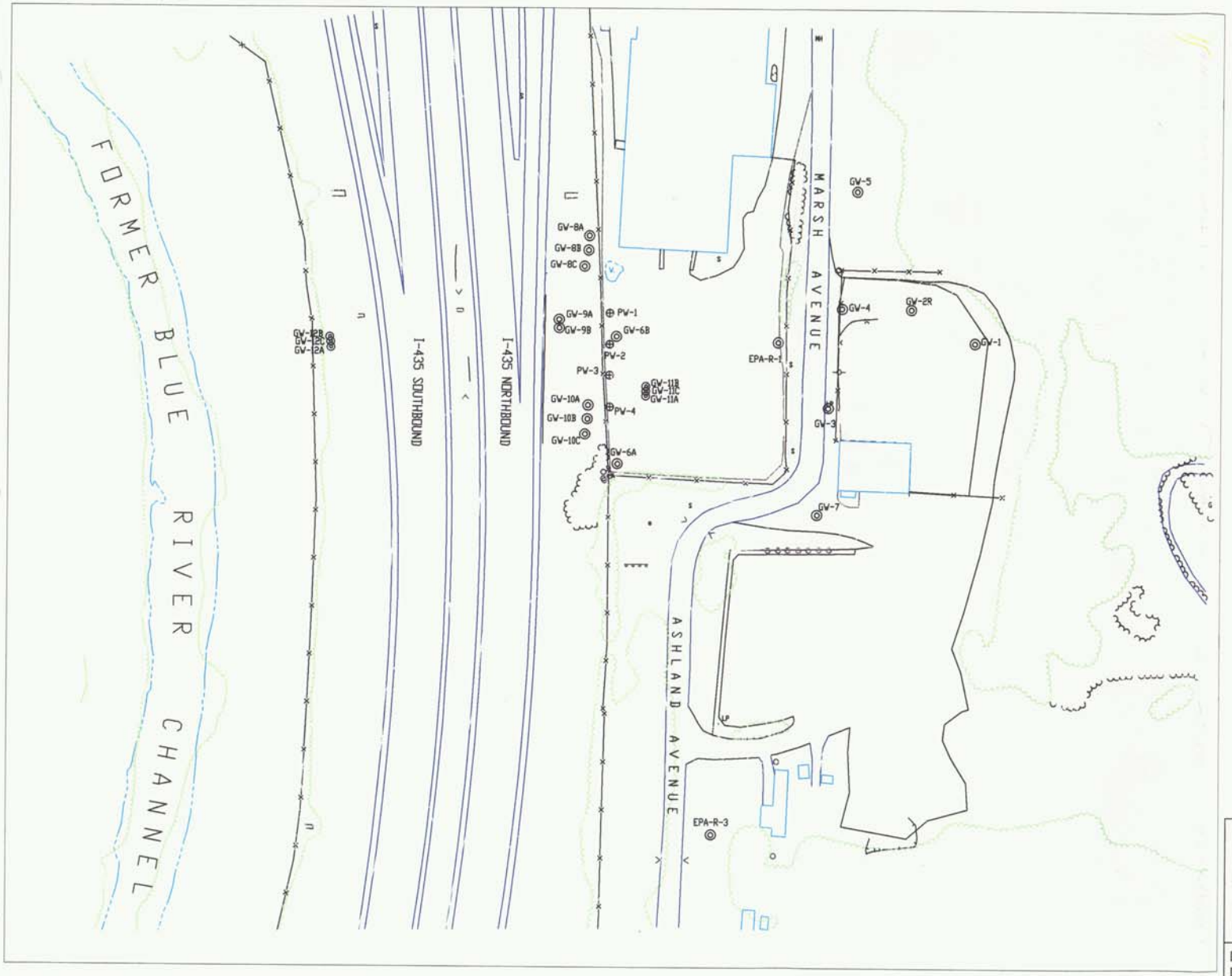
5.0 SITE DEVELOPMENT

Groundwater sampling and general well maintenance were performed during November 2006.

No additional investigative activities occurred during this period.

Figures

FIGURES



LEGEND

⊕ EXTRACTION WELL

◎ MONITOR WELL

100 0 100

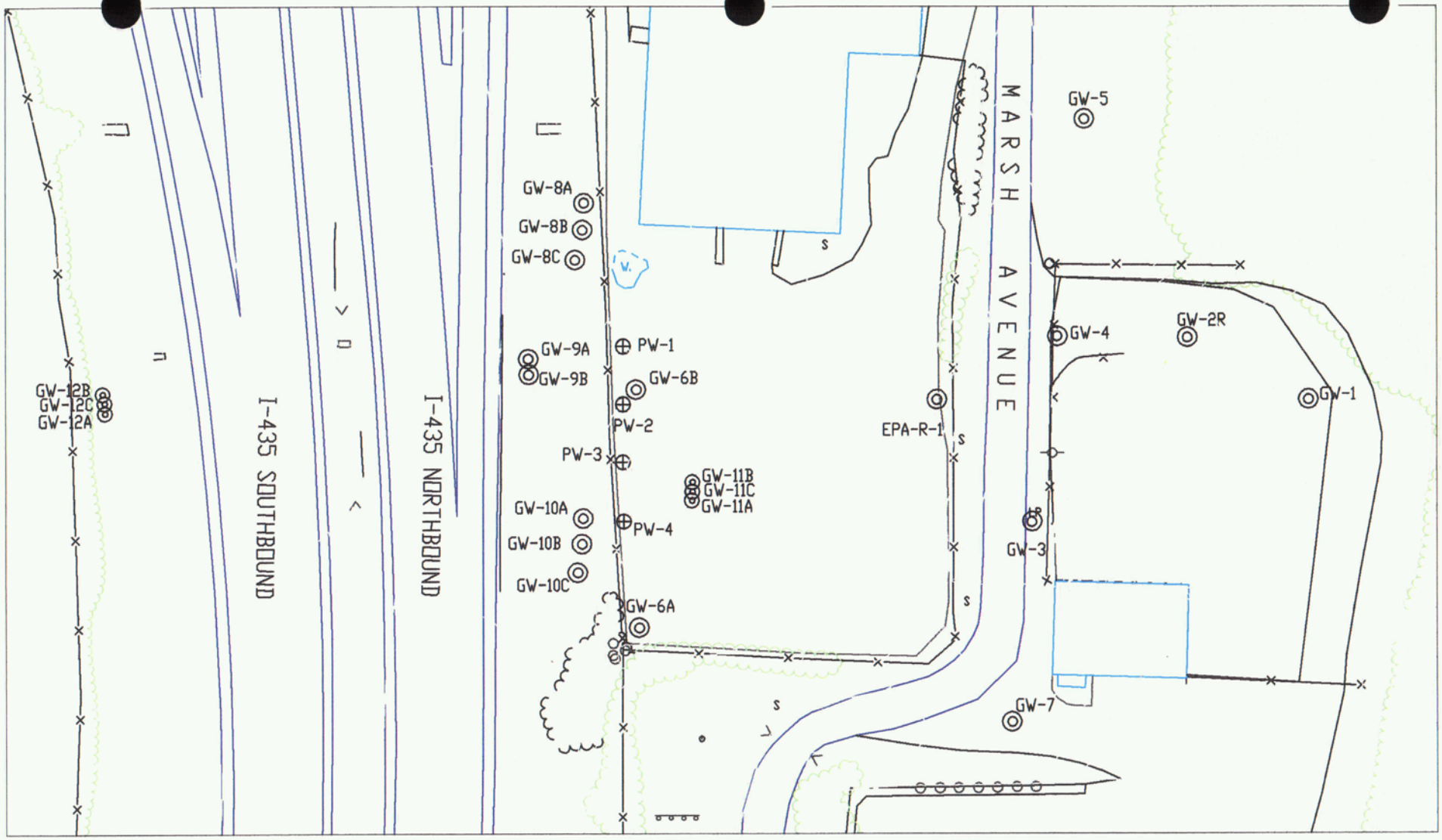
SCALE FEET

CONTOUR INTERVAL: 2'

FIGURE 1

SITE BASE MAP
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 08/01/05
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

CONTOUR INTERVAL: 2'

LEGEND

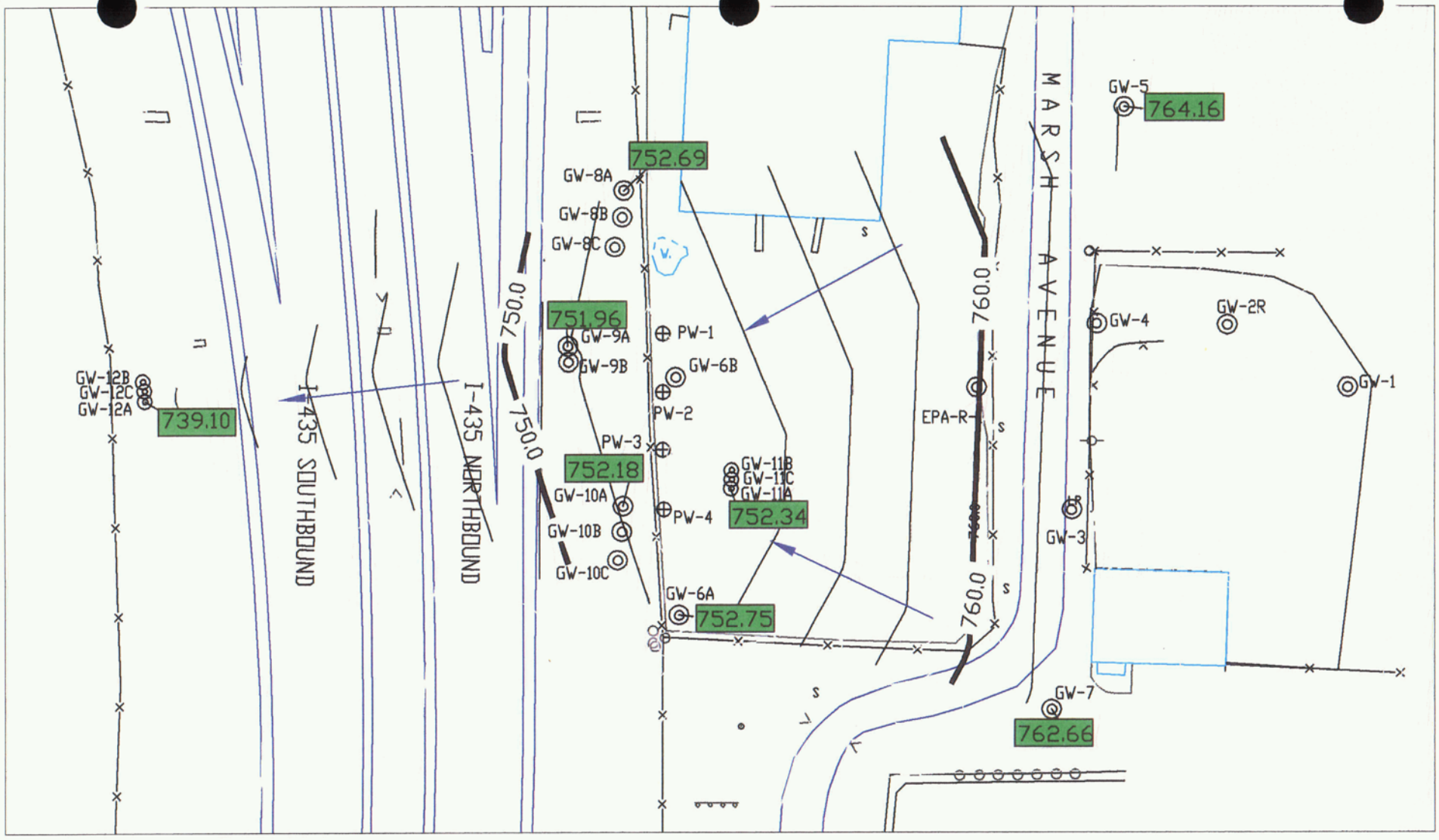
⊕ EXTRACTION WELL

◎ MONITOR WELL

FIGURE 2

SITE DETAIL
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 08/01/05
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

N

LEGEND

⊕ EXTRACTION WELL

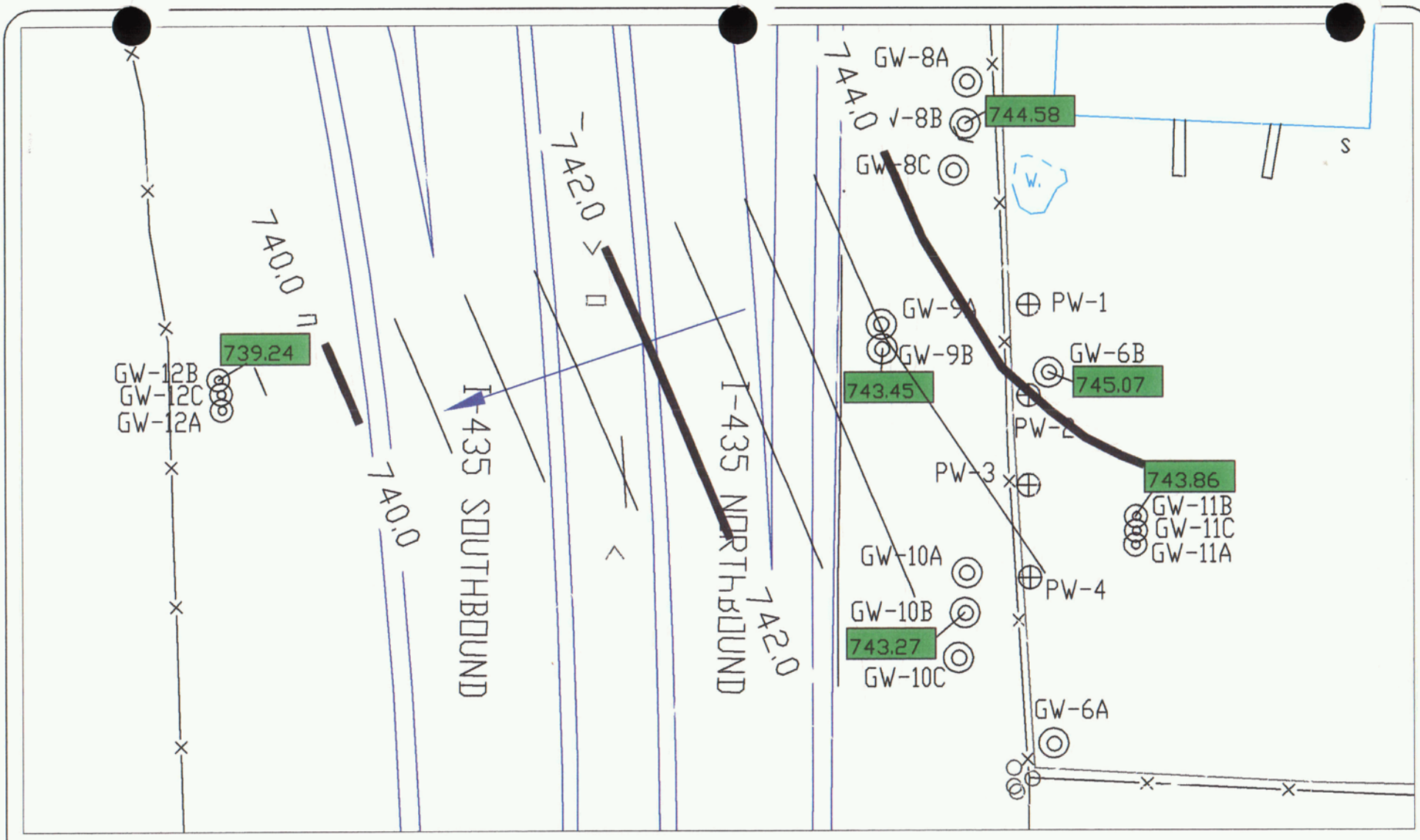
◎ MONITOR WELL

762.66 POTENTIOMETRIC SURFACE ELEVATION

FIGURE 3.1

POTENTIOMETRIC SURFACE - A-HORIZON
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED:
DESIGNED: CRE CHECKED:



50 0 50

SCALE FEET

NOTE: DATA FROM WELL GW-6B WAS NOT UTILIZED FOR CONTOURING

LEGEND

⊕ EXTRACTION WELL

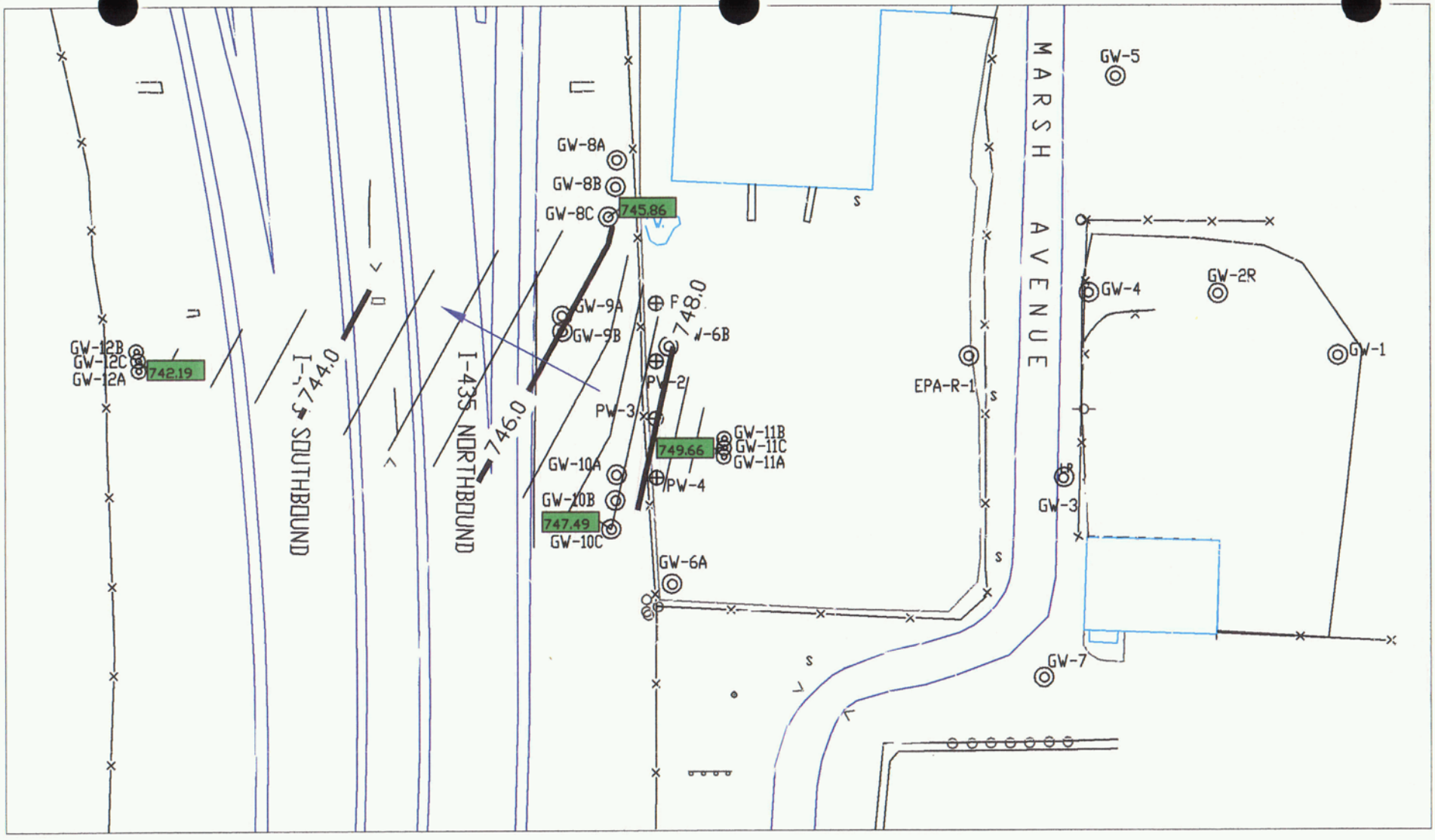
◎ MONITOR WELL

738.72 POTENTIOMETRIC SURFACE ELEVATION

FIGURE 3.2

POTENTIOMETRIC SURFACE - B-HORIZON
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED:
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

LEGEND

⊕ EXTRACTION WELL

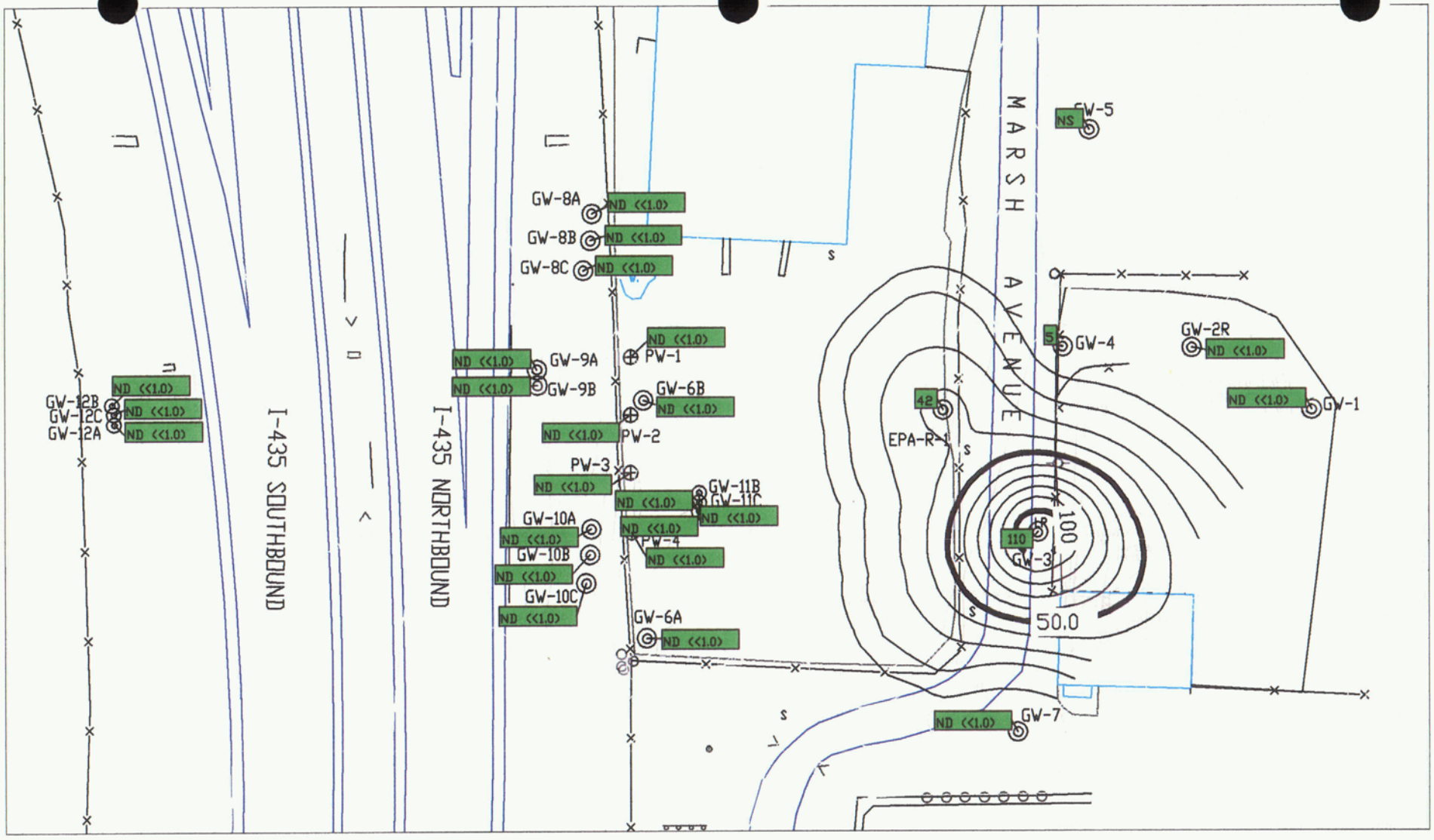
◎ MONITOR WELL

743.69 POTENTIOMETRIC SURFACE ELEVATION

FIGURE 3.3

POTENTIOMETRIC SURFACE - C-HORIZON
NOVEMBER 2007
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 02/13/07
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

LEGEND

⊕ EXTRACTION WELL

◎ MONITOR WELL

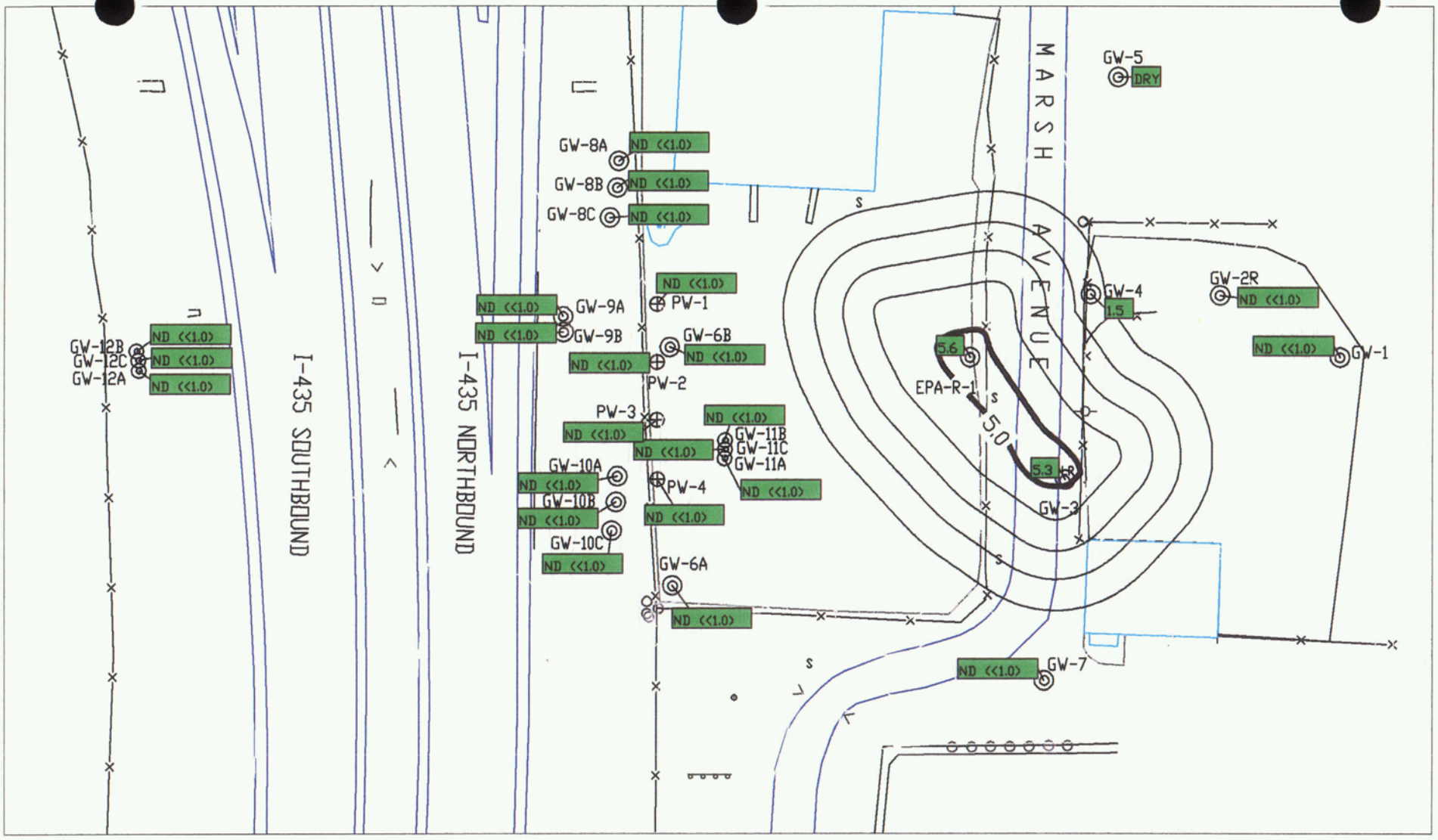
3.9 CONCENTRATION IN MICROGRAMS PER LITER

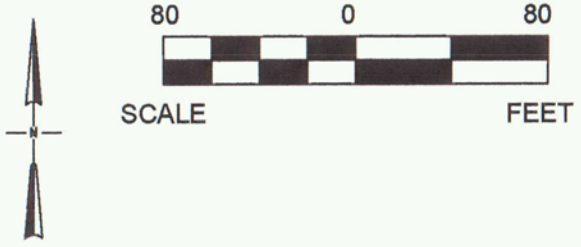
ND (<1.0) NOT DETECTED ABOVE 1.0 MICROGRAMS PER LITER

FIGURE 4.0

BENZENE ISOPAC MAP
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 08/28/06
DESIGNED: CRE CHECKED:





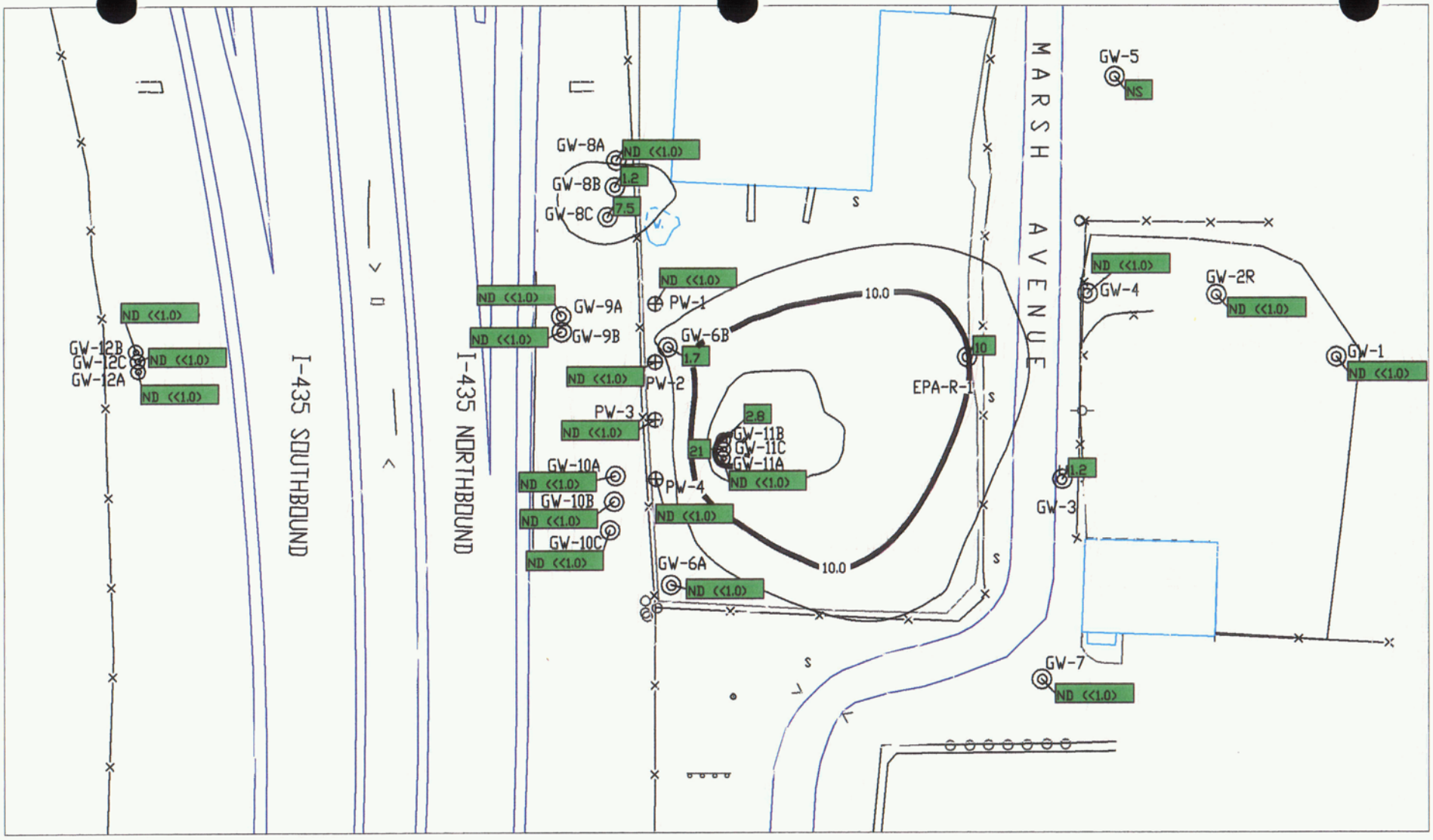
LEGEND

- EXTRACTION WELL
- MONITOR WELL
- 3.9 — CONCENTRATION IN MICROGRAMS PER LITER
- ND (<1.0) — NOT DETECTED ABOVE 1.0 MICROGRAMS PER LITER

FIGURE 5.0

1,2-DICHLOROBENZENE ISOPAC MAP
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 02/15/07
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

NOTE: ALTHOUGH CONCENTRATIONS FROM EACH WELL ARE DISPLAYED, ONLY THE HIGHEST CONCENTRATIONS WERE UTILIZED FOR CONTOURING AT CLUSTERED WELL SETS.

LEGEND

⊕ EXTRACTION WELL

◎ MONITOR WELL

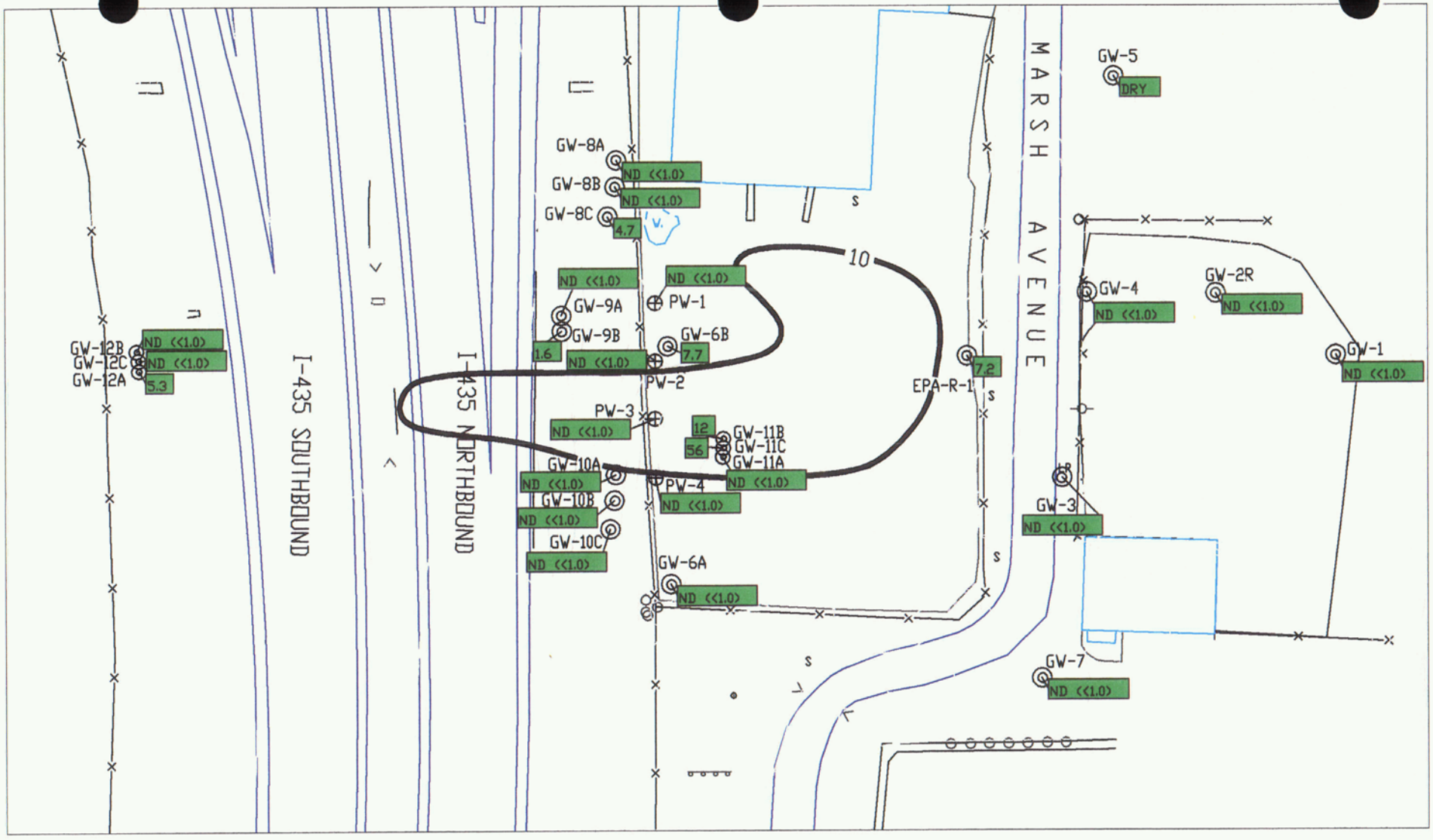
3.9 CONCENTRATION IN MICROGRAMS PER LITER

ND (<1.0) NOT DETECTED ABOVE 1.0 MICROGRAMS PER LITER

FIGURE 6.0

1,1-DICHLOROETHANE ISOPAC MAP
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 02/15/07
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

NOTE: ALTHOUGH CONCENTRATIONS FROM EACH WELL ARE DISPLAYED, ONLY THE HIGHEST CONCENTRATIONS WERE UTILIZED FOR CONTOURING AT CLUSTERED WELL SETS.

LEGEND

⊕ EXTRACTION WELL

◎ MONITOR WELL

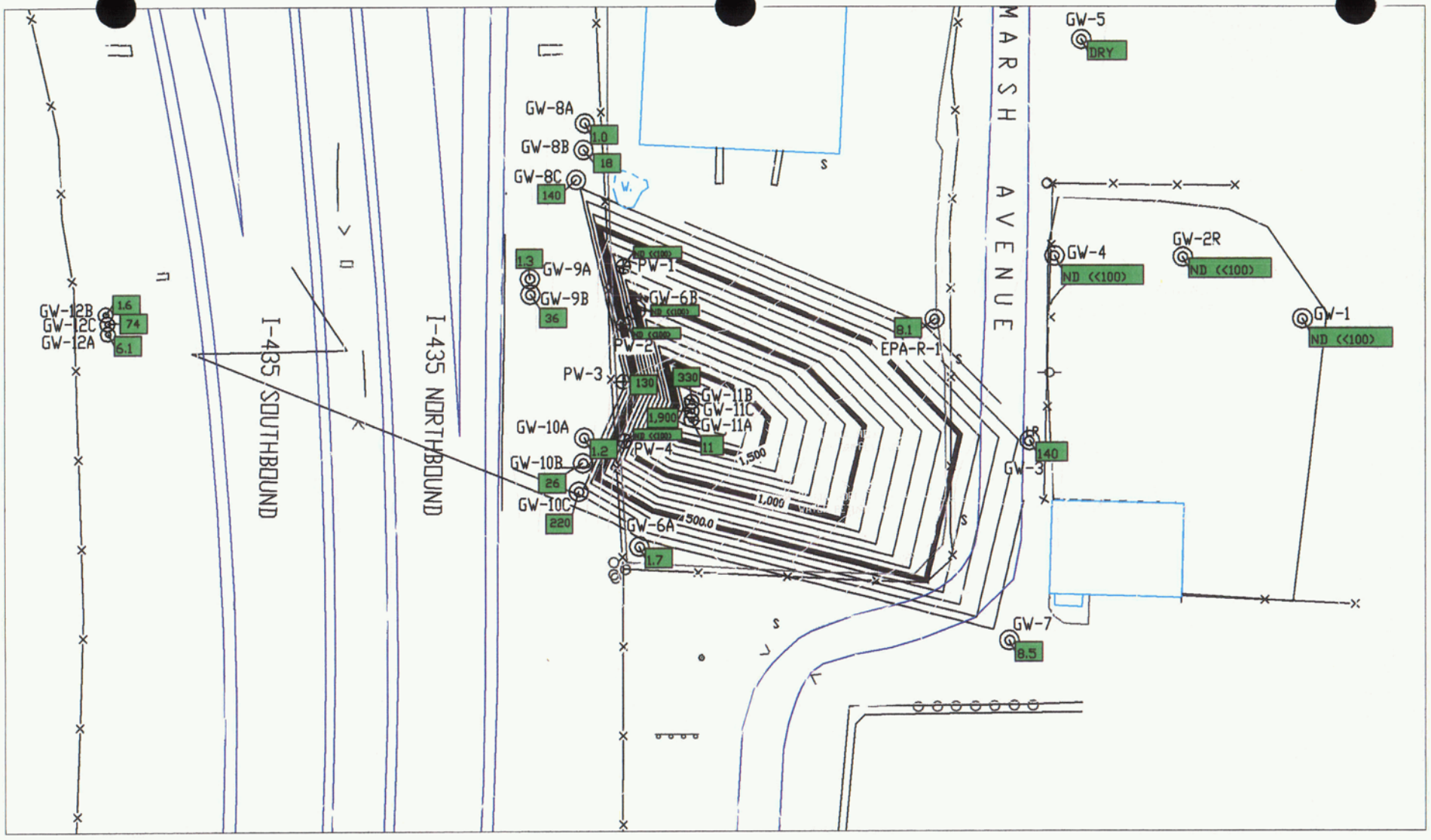
3.9 CONCENTRATION IN MICROGRAMS PER LITER

ND (<1.0) NOT DETECTED ABOVE 1.0 MICROGRAMS PER LITER

FIGURE 7.0

CIS-1,2-DICHLOROETHENE ISOPAC MAP
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 02/15/07
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

NOTE: ALTHOUGH CONCENTRATIONS FROM EACH WELL ARE DISPLAYED, ONLY THE HIGHEST CONCENTRATIONS WERE UTILIZED FOR CONTOURING AT CLUSTERED WELL SETS.

LEGEND

⊕ EXTRACTION WELL

◎ MONITOR WELL

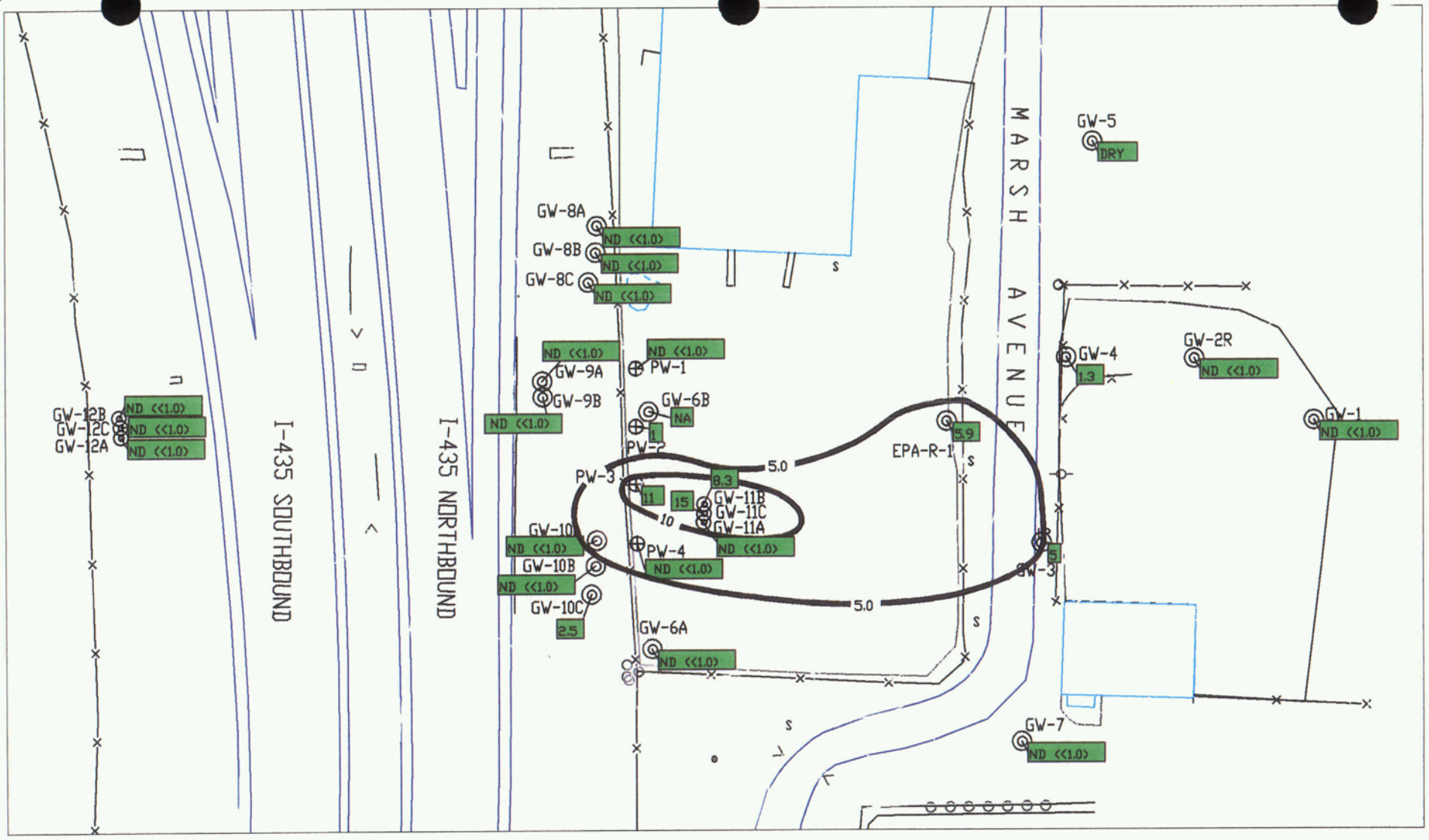
3.9 CONCENTRATION IN MICROGRAMS PER LITER

ND (<100) NOT DETECTED ABOVE 100 MICROGRAMS PER LITER

FIGURE 8.0

1,4-DIOXANE ISOPAC MAP
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED:
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

NOTE: ALTHOUGH CONCENTRATIONS FROM EACH WELL ARE DISPLAYED, ONLY THE HIGHEST CONCENTRATIONS WERE UTILIZED FOR CONTOURING AT CLUSTERED WELL SETS.

LEGEND

⊕ EXTRACTION WELL

◎ MONITOR WELL

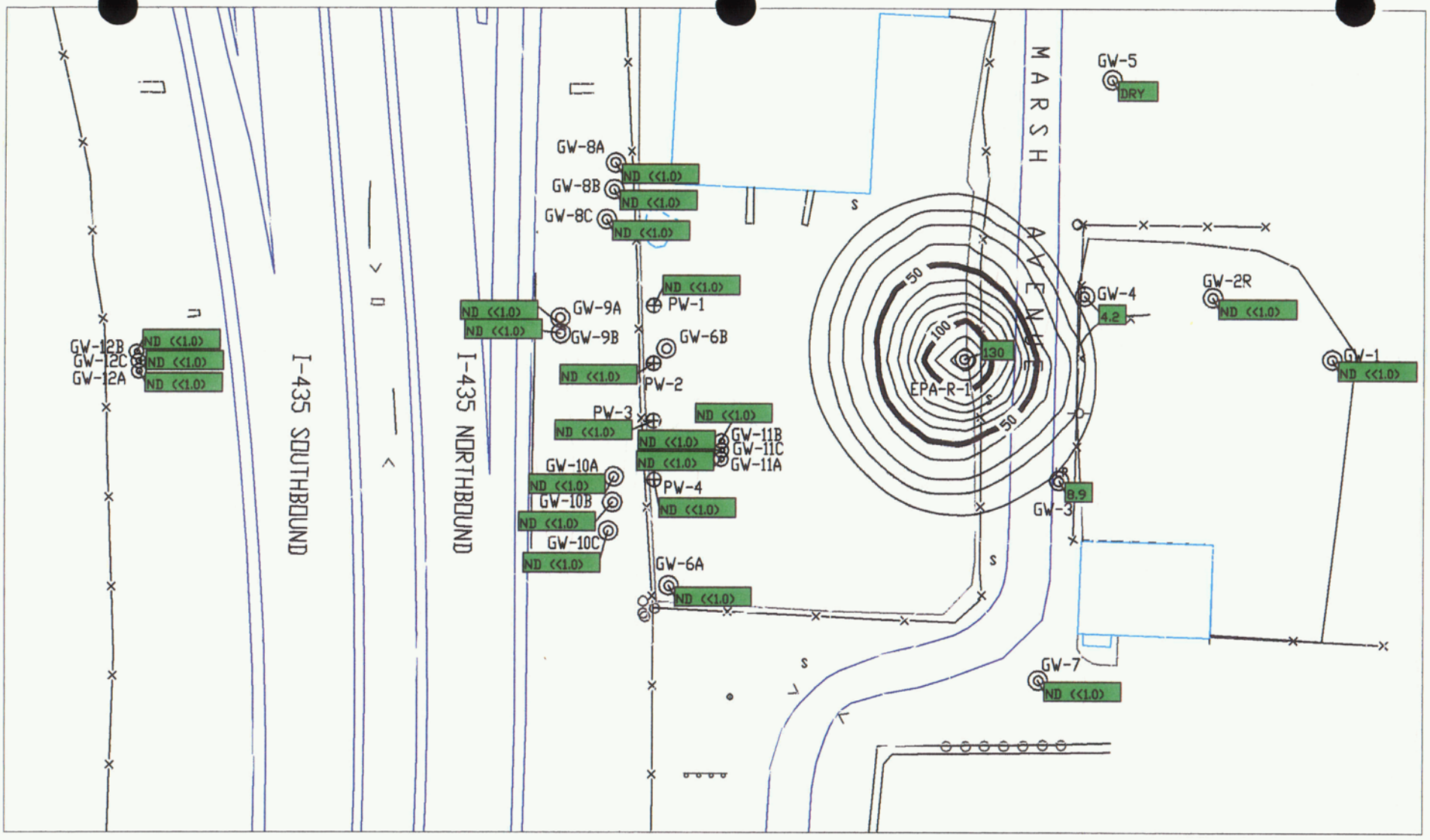
3.9 CONCENTRATION IN MICROGRAMS PER LITER

ND (<1.0) NOT DETECTED ABOVE 1.0 MICROGRAMS PER LITER

FIGURE 9.0

MTBE ISOPAC MAP
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 02/16/07
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

LEGEND

⊕ EXTRACTION WELL

◎ MONITOR WELL

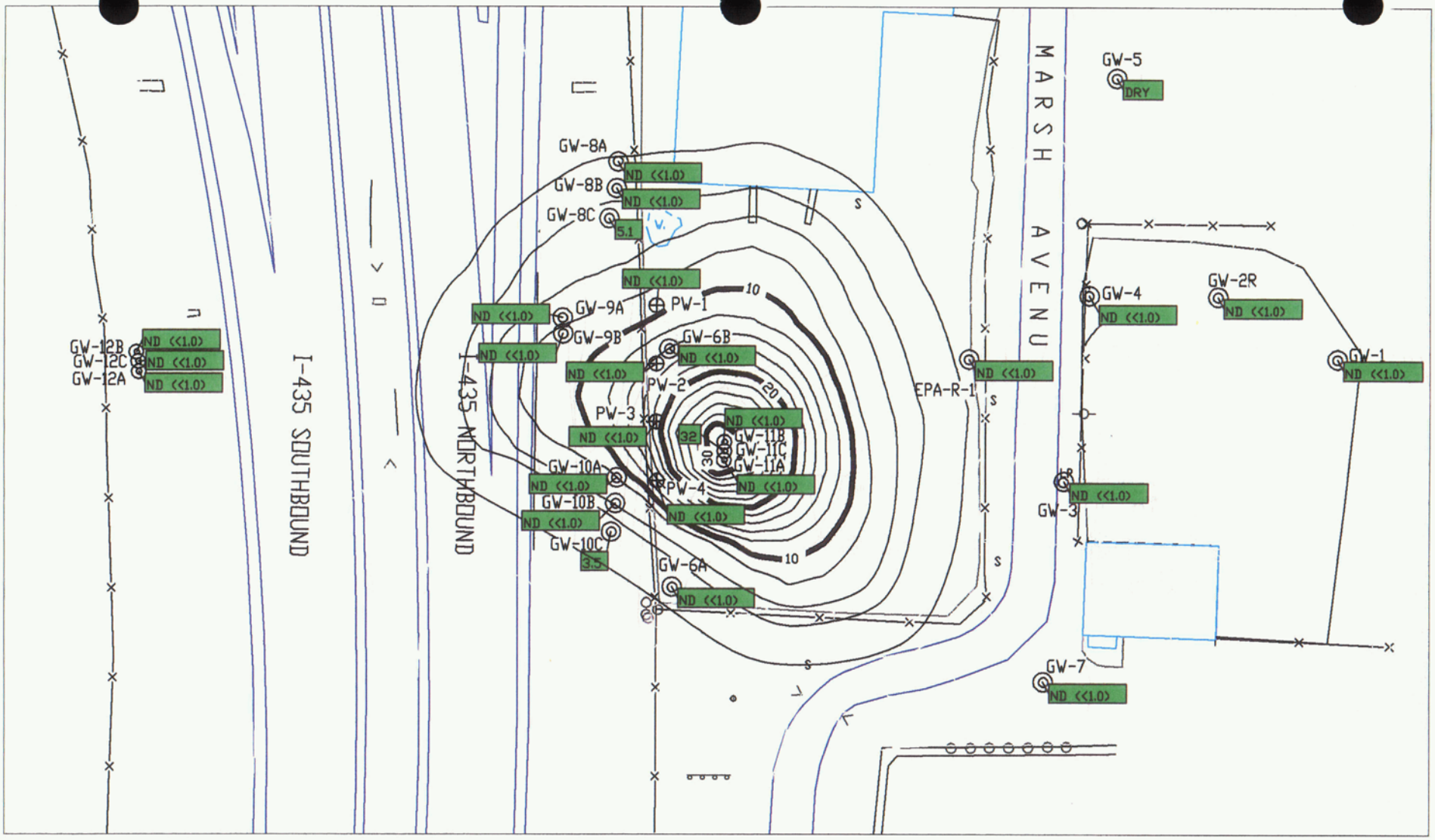
130 CONCENTRATION IN MICROGRAMS PER LITER

ND (<1.0) NOT DETECTED ABOVE 1.0 MICROGRAMS PER LITER

FIGURE 10.0

1,2,4-TRIMETHYLBENZENE ISOPAC MAP
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 02/17/07
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

NOTE: ALTHOUGH CONCENTRATIONS FROM EACH WELL ARE DISPLAYED, ONLY THE HIGHEST CONCENTRATIONS WERE UTILIZED FOR CONTOURING AT CLUSTERED WELL SETS.

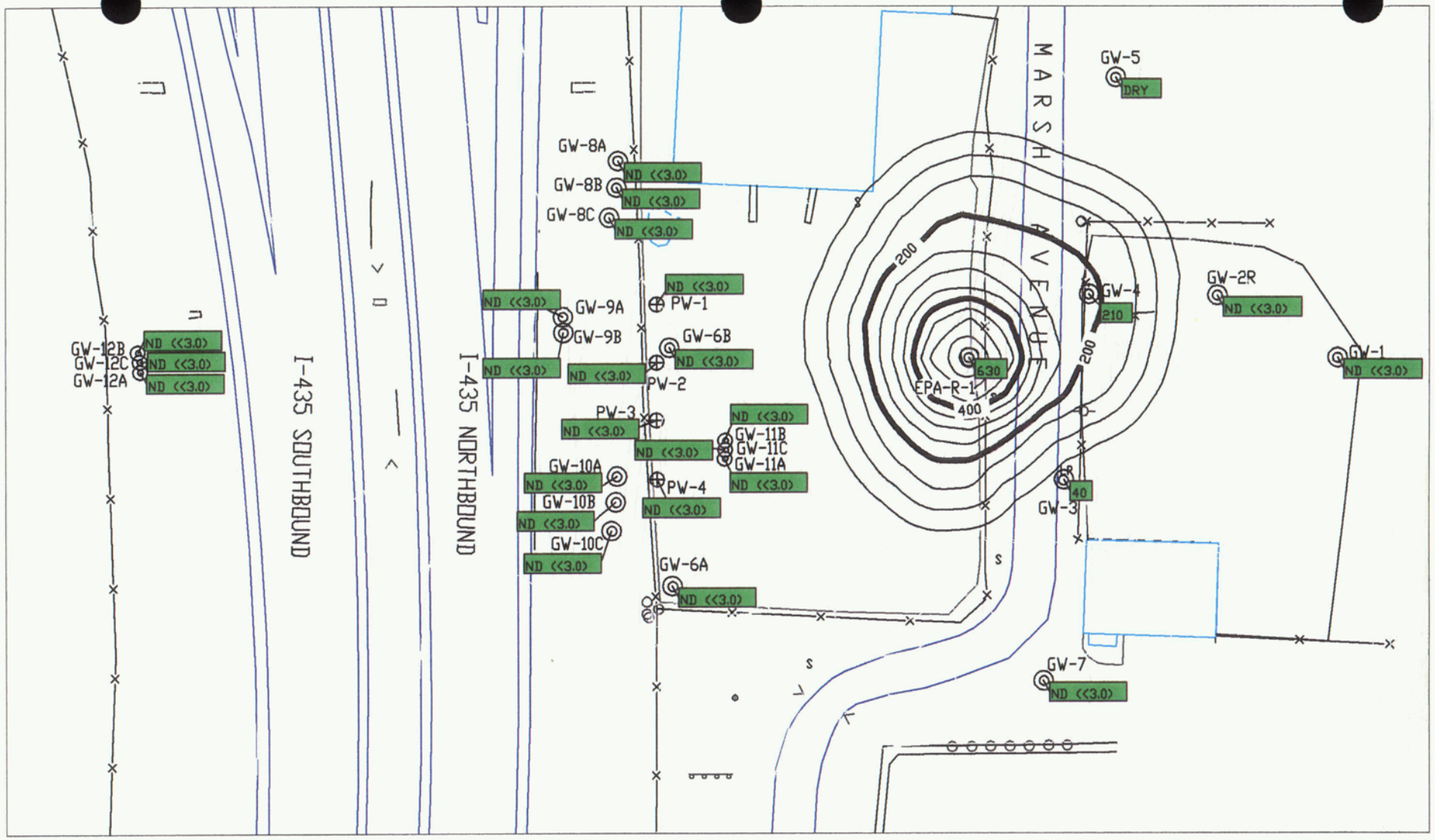
LEGEND

- EXTRACTION WELL
- MONITOR WELL
- 130 — CONCENTRATION IN MICROGRAMS PER LITER
- ND (<1.0) — NOT DETECTED ABOVE 1.0 MICROGRAMS PER LITER

FIGURE 11.0

VINYL CLORIDE ISOPAC MAP
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 02/17/07
DESIGNED: CRE CHECKED:



80 0 80

SCALE FEET

N

LEGEND

⊕ EXTRACTION WELL

◎ MONITOR WELL

130 CONCENTRATION IN MICROGRAMS PER LITER

ND (<1.0) NOT DETECTED ABOVE 1.0 MICROGRAMS PER LITER

FIGURE 12.0

TOTAL XYLENES ISOPAC MAP
NOVEMBER 2006
QUALITY ANALYTICAL SERVICES
1633 MARSH AVE.
BLUE SUMMIT, MO 64126

DATE: 08/02/04 REVISED: 02/17/07
DESIGNED: CRE CHECKED:

Tables

TABLES

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							EPA-R-1	EPA-R-3	GW-1	GW-2R	GW-3
Collect Date:							11/21/2006	11/21/2006	11/21/2006	11/21/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
Acetone	NL	5,500	NL	no GTARC	5,500	ug/l	<50	<50	<50	<50	270
Acrolein	NL	0.042	320	NL	0.042	ug/l	<50	<50	<50	<50	<50
Acrylonitrile	NL	0.039	0.058	0.006	0.037	ug/l	<50	<50	<50	<50	<50
Allyl chloride	NL	10	NL	no GTARC	NL	ug/l	<50	<50	<50	<50	<50
Benzene	5	0.35	5	5	0.34	ug/l	42	<1.0	<1.0	<1.0	110
Bromobenzene	NL	20	NL	NL	21	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	NL	90	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	NL	0.18	NL	80	0.17	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	NL	8.5	NL	80	8.5	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	NL	8.7	10	NL	8.5	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	NL	7,000	NL	NL	7,000	ug/l	<50	<50	<50	<50	<50
n-Butylbenzene	NL	240	NL	NL	NL	ug/l	16	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	240	NL	NL	NL	ug/l	2.8	<1.0	<1.0	<1.0	1.2
tert-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	NL	1,000	NL	no GTARC	1,000	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	5	0.17	5	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	100	110	100	100	110	ug/l	5.7	<1.0	<1.0	<1.0	2.6
Chlorodibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	NL	4.6	NL	NL	3.6	ug/l	<1.0	<1.0	<1.0	<1.0	16
2-Chloroethyl vinyl ether	NL	NL	NL	NL	NL	ug/l	<10	<10	<10	<10	<10
Chloroform	NL	0.17	NL	80	0.15	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NL	160	NL	NL	190	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	NL	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	0.2	0.048	NL	0.2	0.047	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	NL	5.6E-03	NL	NL	5.3E-03	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	NL	370	NL	600	270	ug/l	5.6	<1.0	<1.0	<1.0	5.3

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							EPA-R-1	EPA-R-3	GW-1	GW-2R	GW-3
Collect Date:							11/21/2006	11/21/2006	11/21/2006	11/21/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
1,3-Dichlorobenzene	NL	180	NL	NL	18	ug/l	<1.0	<1.0	<1.0	<1.0	3
1,4-Dichlorobenzene	NL	0.5	NL	75	0.47	ug/l	1.1	<1.0	<1.0	<1.0	19
trans-1,4-Dichloro-2-butene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	NL	390	NL	NL	350	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	NL	810	NL	NL	800	ug/l	10	<1.0	<1.0	<1.0	1.2
1,2-Dichloroethane	5	0.12	5	5	0.12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	340	7	7	350	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	61	70	70	61	ug/l	7.2	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.16	100	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	120	NL	0.4	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Di-isopropyl ether	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	NL	6.1	NL	3	6.1	ug/l	<100	<100	<100	<100	140
1,4-Dioxane (Weck)*	NL	6.1	NL	3	6.1	ug/l	8.1	NA	NA	NA	NA
Ethylbenzene	700	1,300	700	700	1,300	ug/l	47	<1.0	<1.0	<1.0	<1.0
Ethyl methacrylate	NL	550	NL	NL	550	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	NL	0.86	0.45	1	0.86	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Iodomethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Isopropylbenzene	NL	NL	NL	no GTARC	660	ug/l	5.6	<1.0	<1.0	<1.0	2.9
p-Isopropyltoluene	NL	NL	NL	NL	NL	ug/l	4	<1.0	<1.0	<1.0	1.2
Methacrylonitrile	NL	1.0	NL	NL	1.0	ug/l	<50	<50	<50	<50	<50
Methylene Chloride	NL	4.3	5	5	4.1	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl methacrylate	NL	1,400	NL	NL	1,400	ug/l	<50	<50	<50	<50	<50

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							EPA-R-1	EPA-R-3	GW-1	GW-2R	GW-3
Collect Date:							11/21/2006	11/21/2006	11/21/2006	11/21/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
4-Methyl-2-pentanone (MIBK)	NL	2,000	NL	NL	6,300	ug/l	<50	<50	<50	<50	<50
Methyl tert-butyl ether	NL	11	NL	20	2.6	ug/l	5.9	<1.0	<1.0	<1.0	5
Naphthalene	NL	6.2	20	100	6.5	ug/l	130	<5.0	<5.0	<5.0	<5.0
Pentachloroethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Propionitrile	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
n-Propylbenzene	NL	240	NL	no GTARC	NL	ug/l	9.4	<1.0	<1.0	<1.0	3.4
Styrene	100	1,600	100	100	1,600	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NL	0.055	0.17	0.3	0.053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	NL	0.43	70	70	0.41	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	0.10	5	5	0.1	ug/l	3.1	<1.0	<1.0	<1.0	<1.0
Toluene	1000	720	1000	150	750	ug/l	140	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	180	NL	40	7.2	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	3,200	200	200	3,200	ug/l	16	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	0.20	5	5	0.19	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.028	NL	5	0.026	ug/l	1.3	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	NL	1,300	NL	no GTARC	1,300	ug/l	7	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NL	0.0056	40	40	0.0053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	130	<1.0	<1.0	<1.0	8.9
1,3,5-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	38	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	0.02	2	2	0.015	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, Total	10000	210	10000	320	210	ug/l	630	<3.0	<3.0	<3.0	40

Notes: NL - Not Listed NA - Not Analyzed

All samples listed were analyzed by EPA Method 8260

(Weck)* - Sample was also submitted for to Weck lab

1,4-Dioxane by EPA Method 1625M

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-4	GW-6A	GW-6B	GW-7	GW-8A
Collect Date:							11/21/2006	11/21/2006	11/21/2006	11/21/2006	11/20/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
Acetone	NL	5,500	NL	no GTARC	5,500	ug/l	<50	<50	<50	<50	<50
Acrolein	NL	0.042	320	NL	0.042	ug/l	<50	<50	<50	<50	<50
Acrylonitrile	NL	0.039	0.058	0.006	0.037	ug/l	<50	<50	<50	<50	<50
Allyl chloride	NL	.10	NL	no GTARC	NL	ug/l	<50	<50	NA	<50	<50
Benzene	5	0.35	5	5	0.34	ug/l	5	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	20	NL	NL	21	ug/l	<1.0	<1.0	NA	<1.0	<1.0
Bromochloromethane	NL	NL	90	NL	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
Bromodichloromethane	NL	0.18	NL	80	0.17	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	NL	8.5	NL	80	8.5	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	NL	8.7	10	NL	8.5	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	NL	7,000	NL	NL	7,000	ug/l	<50	<50	<50	<50	<50
n-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
sec-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
tert-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
Carbon disulfide	NL	1,000	NL	no GTARC	1,000	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	5	0.17	5	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	100	110	100	100	110	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	NL	4.6	NL	NL	3.6	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chloroethyl vinyl ether	NL	NL	NL	NL	NL	ug/l	<10	<10	<10	<10	<10
Chloroform	NL	0.17	NL	80	0.15	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NL	160	NL	NL	190	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	NL	120	NL	NL	120	ug/l	<1.0	<1.0	NA	<1.0	<1.0
4-Chlorotoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	0.2	0.048	NL	0.2	0.047	ug/l	<5.0	<5.0	<1.0	<5.0	<5.0
1,2-Dibromoethane	NL	5.6E-03	NL	NL	5.3E-03	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	NL	370	NL	600	270	ug/l	1.5	<1.0	<1.0	<1.0	<1.0

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-4	GW-6A	GW-6B	GW-7	GW-8A
Collect Date:							11/21/2006	11/21/2006	11/21/2006	11/21/2006	11/20/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
1,3-Dichlorobenzene	NL	180	NL	NL	18	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	NL	0.5	NL	75	0.47	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
Dichlorodifluoromethane	NL	390	NL	NL	350	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	NL	810	NL	NL	800	ug/l	<1.0	<1.0	1.7	<1.0	<1.0
1,2-Dichloroethane	5	0.12	5	5	0.12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	340	7	7	350	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	61	70	70	61	ug/l	<1.0	<1.0	7.7	<1.0	<1.0
trans-1,2-Dichloroethene	100	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.16	100	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	120	NL	0.4	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Di-isopropyl ether	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
1,4-Dioxane	NL	6.1	NL	3	6.1	ug/l	<100	<100	<100	<100	<100
1,4-Dioxane (Weck)*	NL	6.1	NL	3	6.1	ug/l	NA	1.7	NA	8.5	1.0
Ethylbenzene	700	1,300	700	700	1,300	ug/l	5.2	<1.0	<1.0	<1.0	<1.0
Ethyl methacrylate	NL	550	NL	NL	550	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	NL	0.86	0.45	1	0.86	ug/l	<1.0	<1.0	NA	<1.0	<1.0
2-Hexanone	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Iodomethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Isopropylbenzene	NL	NL	NL	no GTARC	660	ug/l	<1.0	<1.0	NA	<1.0	<1.0
p-Isopropyltoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
Methacrylonitrile	NL	1.0	NL	NL	1.0	ug/l	<50	<50	<50	<50	<50
Methylene Chloride	NL	4.3	5	5	4.1	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl methacrylate	NL	1,400	NL	NL	1,400	ug/l	<50	<50	<50	<50	<50

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-4	GW-6A	GW-6B	GW-7	GW-8A
Collect Date:							11/21/2006	11/21/2006	11/21/2006	11/21/2006	11/20/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
4-Methyl-2-pentanone (MIBK)	NL	2,000	NL	NL	6,300	ug/l	<50	<50	<50	<50	<50
Methyl tert-butyl ether	NL	11	NL	20	2.6	ug/l	1.3	<1.0	NA	<1.0	<1.0
Naphthalene	NL	6.2	20	100	6.5	ug/l	<5.0	<5.0	NA	<5.0	<5.0
Pentachloroethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Propionitrile	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
n-Propylbenzene	NL	240	NL	no GTARC	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
Styrene	100	1,600	100	100	1,600	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NL	0.055	0.17	0.3	0.053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	NL	0.43	70	70	0.41	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	0.10	5	5	0.1	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	720	1000	150	750	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	NA	<1.0	<1.0
1,2,4-Trichlorobenzene	70	180	NL	40	7.2	ug/l	<1.0	<1.0	NA	<1.0	<1.0
1,1,1-Trichloroethane	200	3,200	200	200	3,200	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	0.20	5	5	0.19	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.028	NL	5	0.026	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	NL	1,300	NL	no GTARC	1,300	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NL	0.0056	40	40	0.0053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	4.2	<1.0	NA	<1.0	<1.0
1,3,5-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	1.8	<1.0	NA	<1.0	<1.0
Vinyl chloride	2	0.02	2	2	0.015	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, Total	10000	210	10000	320	210	ug/l	210	<3.0	<3.0	<3.0	<3.0

Notes: NL - Not Listed NA - Not Analyzed

All samples listed were analyzed by EPA Method 8260

(Weck)* - Sample was also submitted for to Weck lab

1,4-Dioxane by EPA Method 1625M

The GW-6B sample was submitted for the full Appendix 9 list of VOC analysis by Method 8260B.

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-8B	GW-8C	GW-9A	GW-9B	GW-10A
Collect Date:							11/20/2006	11/20/2006	11/20/2006	11/20/2006	11/20/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
Acetone	NL	5,500	NL	no GTARC	5,500	ug/l	<50	<50	<50	<50	<50
Acrolein	NL	0.042	320	NL	0.042	ug/l	<50	<50	<50	<50	<50
Acrylonitrile	NL	0.039	0.058	0.006	0.037	ug/l	<50	<50	<50	<50	<50
Allyl chloride	NL	10	NL	no GTARC	NL	ug/l	<50	<50	<50	<50	<50
Benzene	5	0.35	5	5	0.34	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	20	NL	NL	21	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	NL	90	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	NL	0.18	NL	80	0.17	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	NL	8.5	NL	80	8.5	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	NL	8.7	10	NL	8.5	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	NL	7,000	NL	NL	7,000	ug/l	<50	<50	<50	<50	<50
n-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	NL	1,000	NL	no GTARC	1,000	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	5	0.17	5	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	100	110	100	100	110	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	NL	4.6	NL	NL	3.6	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chloroethyl vinyl ether	NL	NL	NL	NL	NL	ug/l	<10	<10	<10	<10	<10
Chloroform	NL	0.17	NL	80	0.15	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NL	160	NL	NL	190	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	NL	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	0.2	0.048	NL	0.2	0.047	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	NL	5.6E-03	NL	NL	5.3E-03	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	NL	370	NL	600	270	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-8B	GW-8C	GW-9A	GW-9B	GW-10A
Collect Date:							11/20/2006	11/20/2006	11/20/2006	11/20/2006	11/20/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
1,3-Dichlorobenzene	NL	180	NL	NL	18	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	NL	0.5	NL	75	0.47	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	NL	390	NL	NL	350	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	NL	810	NL	NL	800	ug/l	1.2	7.5	<1.0	<1.0	<1.0
1,2-Dichloroethane	5	0.12	5	5	0.12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	340	7	7	350	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	61	70	70	61	ug/l	<1.0	4.7	<1.0	1.6	<1.0
trans-1,2-Dichloroethene	100	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.16	100	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	120	NL	0.4	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Di-isopropyl ether	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	NL	6.1	NL	3	6.1	ug/l	<100	120	<100	<100	<100
1,4-Dioxane (Weck)*	NL	6.1	NL	3	6.1	ug/l	18	140	1.3	36	1.2
Ethylbenzene	700	1,300	700	700	1,300	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl methacrylate	NL	550	NL	NL	550	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	NL	0.86	0.45	1	0.86	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Iodomethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Isopropylbenzene	NL	NL	NL	no GTARC	660	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Methacrylonitrile	NL	1.0	NL	NL	1.0	ug/l	<50	<50	<50	<50	<50
Methylene Chloride	NL	4.3	5	5	4.1	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl methacrylate	NL	1,400	NL	NL	1,400	ug/l	<50	<50	<50	<50	<50

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-8B	GW-8C	GW-9A	GW-9B	GW-10A
Collect Date:							11/20/2006	11/20/2006	11/20/2006	11/20/2006	11/20/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
4-Methyl-2-pentanone (MIBK)	NL	2,000	NL	NL	6,300	ug/l	<50	<50	<50	<50	<50
Methyl tert-butyl ether	NL	11	NL	20	2.6	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	NL	6.2	20	100	6.5	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachloroethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Propionitrile	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
n-Propylbenzene	NL	240	NL	no GTARC	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	100	1,600	100	100	1,600	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NL	0.055	0.17	0.3	0.053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	NL	0.43	70	70	0.41	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	0.10	5	5	0.1	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	720	1000	150	750	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	180	NL	40	7.2	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	3,200	200	200	3,200	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	0.20	5	5	0.19	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.028	NL	5	0.026	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	NL	1,300	NL	no GTARC	1,300	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NL	0.0056	40	40	0.0053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	0.02	2	2	0.015	ug/l	<1.0	5.1	<1.0	<1.0	<1.0
Xylenes, Total	10000	210	10000	320	210	ug/l	<3.0	<3.0	<3.0	<3.0	<3.0

Notes: NL - Not Listed NA - Not Analyzed

All samples listed were analyzed by EPA Method 8260

(Weck)* - Sample was also submitted for to Weck lab

1,4-Dioxane by EPA Method 1625M

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-10B	DUP (of GW-10B)	GW-10C	GW-11A	GW-11B
Collect Date:							11/20/2006	11/20/2006	11/20/2006	11/21/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
Acetone	NL	5,500	NL	no GTARC	5,500	ug/l	<50	<50	<50	<50	<50
Acrolein	NL	0.042	320	NL	0.042	ug/l	<50	<50	<50	<50	<50
Acrylonitrile	NL	0.039	0.058	0.006	0.037	ug/l	<50	<50	<50	<50	<50
Allyl chloride	NL	10	NL	no GTARC	NL	ug/l	<50	<50	<50	<50	<50
Benzene	5	0.35	5	5	0.34	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	20	NL	NL	21	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	NL	90	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	NL	0.18	NL	80	0.17	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	NL	8.5	NL	80	8.5	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	NL	8.7	10	NL	8.5	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	NL	7,000	NL	NL	7,000	ug/l	<50	<50	<50	<50	<50
n-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	NL	1,000	NL	no GTARC	1,000	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	5	0.17	5	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	100	110	100	100	110	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	NL	4.6	NL	NL	3.6	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chloroethyl vinyl ether	NL	NL	NL	NL	NL	ug/l	<10	<10	<10	<10	<10
Chloroform	NL	0.17	NL	80	0.15	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NL	160	NL	NL	190	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	NL	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	0.2	0.048	NL	0.2	0.047	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	NL	5.6E-03	NL	NL	5.3E-03	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	NL	370	NL	600	270	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-10B	DUP (of GW-10B)	GW-10C	GW-11A	GW-11B
Collect Date:							11/20/2006	11/20/2006	11/20/2006	11/21/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
1,3-Dichlorobenzene	NL	180	NL	NL	18	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	NL	0.5	NL	75	0.47	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	NL	390	NL	NL	350	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	NL	810	NL	NL	800	ug/l	<1.0	<1.0	<1.0	<1.0	2.8
1,2-Dichloroethane	5	0.12	5	5	0.12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	340	7	7	350	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	61	70	70	61	ug/l	<1.0	<1.0	<1.0	<1.0	12
trans-1,2-Dichloroethene	100	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.16	100	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	120	NL	0.4	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Di-isopropyl ether	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	NL	6.1	NL	3	6.1	ug/l	<100	<100	210	<100	310
1,4-Dioxane (Weck)*	NL	6.1	NL	3	6.1	ug/l	26	26	220	11	330
Ethylbenzene	700	1,300	700	700	1,300	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl methacrylate	NL	550	NL	NL	550	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	NL	0.86	0.45	1	0.86	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Iodomethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Isopropylbenzene	NL	NL	NL	no GTARC	660	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Methacrylonitrile	NL	1.0	NL	NL	1.0	ug/l	<50	<50	<50	<50	<50
Methylene Chloride	NL	4.3	5	5	4.1	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl methacrylate	NL	1,400	NL	NL	1,400	ug/l	<50	<50	<50	<50	<50

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-10B	DUP (of GW-10B)	GW-10C	GW-11A	GW-11B
Collect Date:							11/20/2006	11/20/2006	11/20/2006	11/21/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
4-Methyl-2-pentanone (MIBK)	NL	2,000	NL	NL	6,300	ug/l	<50	<50	<50	<50	<50
Methyl tert-butyl ether	NL	11	NL	20	2.6	ug/l	<1.0	<1.0	2.5	<1.0	8.3
Naphthalene	NL	6.2	20	100	6.5	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachloroethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Propionitrile	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
n-Propylbenzene	NL	240	NL	no GTARC	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	100	1,600	100	100	1,600	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NL	0.055	0.17	0.3	0.053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	NL	0.43	70	70	0.41	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	0.10	5	5	0.1	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	720	1000	150	750	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	180	NL	40	7.2	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	3,200	200	200	3,200	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	0.20	5	5	0.19	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.028	NL	5	0.026	ug/l	<1.0	<1.0	<1.0	<1.0	3
Trichlorofluoromethane	NL	1,300	NL	no GTARC	1,300	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NL	0.0056	40	40	0.0053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	0.02	2	2	0.015	ug/l	<1.0	<1.0	3.5	<1.0	<1.0
Xylenes, Total	10000	210	10000	320	210	ug/l	<3.0	<3.0	<3.0	<3.0	<3.0

Notes: NL - Not Listed NA - Not Analyzed

All samples listed were analyzed by EPA Method 8260

(Weck)* - Sample was also submitted for to Weck lab

1,4-Dioxane by EPA Method 1625M

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-11C	GW-12A	GW-12B	GW-12C	PW-1
Collect Date:							11/20/2006	11/20/2006	11/20/2006	11/20/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
Acetone	NL	5,500	NL	no GTARC	5,500	ug/l	<50	<50	<50	<50	<50
Acrolein	NL	0.042	320	NL	0.042	ug/l	<50	<50	<50	<50	<50
Acrylonitrile	NL	0.039	0.058	0.006	0.037	ug/l	<50	<50	<50	<50	<50
Allyl chloride	NL	10	NL	no GTARC	NL	ug/l	<50	<50	<50	<50	<50
Benzene	5	0.35	5	5	0.34	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	20	NL	NL	21	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	NL	90	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	NL	0.18	NL	80	0.17	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	NL	8.5	NL	80	8.5	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	NL	8.7	10	NL	8.5	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	NL	7,000	NL	NL	7,000	ug/l	<50	<50	<50	<50	<50
n-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	NL	1,000	NL	no GTARC	1,000	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	5	0.17	5	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	100	110	100	100	110	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	NL	4.6	NL	NL	3.6	ug/l	7.2	<1.0	<1.0	<1.0	<1.0
2-Chloroethyl vinyl ether	NL	NL	NL	NL	NL	ug/l	<10	<10	<10	<10	<10
Chloroform	NL	0.17	NL	80	0.15	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	NL	160	NL	NL	190	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	NL	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	0.2	0.048	NL	0.2	0.047	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	NL	5.6E-03	NL	NL	5.3E-03	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	NL	370	NL	600	270	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-11C	GW-12A	GW-12B	GW-12C	PW-1
Collect Date:							11/20/2006	11/20/2006	11/20/2006	11/20/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
1,3-Dichlorobenzene	NL	180	NL	NL	18	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	NL	0.5	NL	75	0.47	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	NL	390	NL	NL	350	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	NL	810	NL	NL	800	ug/l	21	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	5	0.12	5	5	0.12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	340	7	7	350	ug/l	1.4	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	61	70	70	61	ug/l	56	5.3	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.16	100	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	120	NL	0.4	120	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Di-isopropyl ether	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	NL	6.1	NL	3	6.1	ug/l	1900	<100	<100	<100	<100
1,4-Dioxane (Weck)*	NL	6.1	NL	3	6.1	ug/l	NA	6.1	1.6	74	NA
Ethylbenzene	700	1,300	700	700	1,300	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl methacrylate	NL	550	NL	NL	550	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	NL	0.86	0.45	1	0.86	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Iodomethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Isopropylbenzene	NL	NL	NL	no GTARC	660	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Methacrylonitrile	NL	1.0	NL	NL	1.0	ug/l	<50	<50	<50	<50	<50
Methylene Chloride	NL	4.3	5	5	4.1	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl methacrylate	NL	1,400	NL	NL	1,400	ug/l	<50	<50	<50	<50	<50

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							GW-11C	GW-12A	GW-12B	GW-12C	PW-1
Collect Date:							11/20/2006	11/20/2006	11/20/2006	11/20/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**
4-Methyl-2-pentanone (MIBK)	NL	2,000	NL	NL	6,300	ug/l	<50	<50	<50	<50	<50
Methyl tert-butyl ether	NL	11	NL	20	2.6	ug/l	15	<1.0	<1.0	<1.0	<1.0
Naphthalene	NL	6.2	20	100	6.5	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachloroethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
Propionitrile	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50	<50
n-Propylbenzene	NL	240	NL	no GTARC	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	100	1,600	100	100	1,600	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NL	0.055	0.17	0.3	0.053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	NL	0.43	70	70	0.41	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	0.10	5	5	0.1	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	720	1000	150	750	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	180	NL	40	7.2	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	3,200	200	200	3,200	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	0.20	5	5	0.19	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.028	NL	5	0.026	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	NL	1,300	NL	no GTARC	1,300	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NL	0.0056	40	40	0.0053	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	0.02	2	2	0.015	ug/l	32	<1.0	<1.0	<1.0	<1.0
Xylenes, Total	10000	210	10000	320	210	ug/l	<3.0	<3.0	<3.0	<3.0	<3.0

Notes: NL - Not Listed NA - Not Analyzed

All samples listed were analyzed by EPA Method 8260

(Weck)* - Sample was also submitted for to Weck lab

1,4-Dioxane by EPA Method 1625M

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							PW-2	PW-3	PW-4	TRENCH
Collect Date:							11/21/2006	11/21/2006	11/21/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**
Acetone	NL	5,500	NL	no GTARC	5,500	ug/l	<50	<50	<50	<50
Acrolein	NL	0.042	320	NL	0.042	ug/l	<50	<50	<50	<50
Acrylonitrile	NL	0.039	0.058	0.006	0.037	ug/l	<50	<50	<50	<50
Allyl chloride	NL	10	NL	no GTARC	NL	ug/l	<50	<50	<50	<50
Benzene	5	0.35	5	5	0.34	ug/l	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NL	20	NL	NL	21	ug/l	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	NL	NL	90	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	NL	0.18	NL	80	0.17	ug/l	<1.0	<1.0	<1.0	<1.0
Bromoform	NL	8.5	NL	80	8.5	ug/l	<1.0	<1.0	<1.0	<1.0
Bromomethane	NL	8.7	10	NL	8.5	ug/l	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	NL	7,000	NL	NL	7,000	ug/l	<50	<50	<50	<50
n-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NL	240	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	NL	1,000	NL	no GTARC	1,000	ug/l	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	5	0.17	5	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	100	110	100	100	110	ug/l	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
Chloroethane	NL	4.6	NL	NL	3.6	ug/l	<1.0	<1.0	<1.0	<1.0
2-Chloroethyl vinyl ether	NL	NL	NL	NL	NL	ug/l	<10	<10	<10	<10
Chloroform	NL	0.17	NL	80	0.15	ug/l	<5.0	<5.0	<5.0	<5.0
Chloromethane	NL	160	NL	NL	190	ug/l	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	NL	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	0.2	0.048	NL	0.2	0.047	ug/l	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	NL	5.6E-03	NL	NL	5.3E-03	ug/l	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	NL	370	NL	600	270	ug/l	<1.0	<1.0	<1.0	<1.0

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							PW-2	PW-3	PW-4	TRENCH
Collect Date:							11/21/2006	11/21/2006	11/21/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**
1,3-Dichlorobenzene	NL	180	NL	NL	18	ug/l	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	NL	0.5	NL	75	0.47	ug/l	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	NL	390	NL	NL	350	ug/l	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	NL	810	NL	NL	800	ug/l	<1.0	<1.0	<1.0	1.3
1,2-Dichloroethane	5	0.12	5	5	0.12	ug/l	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	340	7	7	350	ug/l	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	61	70	70	61	ug/l	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	120	NL	NL	120	ug/l	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.16	100	5	0.16	ug/l	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NL	120	NL	0.4	120	ug/l	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
Di-isopropyl ether	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	NL	6.1	NL	3	6.1	ug/l	<100	130	<100	450
1,4-Dioxane (Weck)*	NL	6.1	NL	3	6.1	ug/l	NA	NA	NA	NA
Ethylbenzene	700	1,300	700	700	1,300	ug/l	<1.0	<1.0	<1.0	<1.0
Ethyl methacrylate	NL	550	NL	NL	550	ug/l	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	NL	0.86	0.45	1	0.86	ug/l	<1.0	<1.0	<1.0	<1.0
2-Hexanone	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50
Iodomethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50
Isopropylbenzene	NL	NL	NL	no GTARC	660	ug/l	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
Methacrylonitrile	NL	1.0	NL	NL	1.0	ug/l	<50	<50	<50	<50
Methylene Chloride	NL	4.3	5	5	4.1	ug/l	<5.0	<5.0	<5.0	<5.0
Methyl methacrylate	NL	1,400	NL	NL	1,400	ug/l	<50	<50	<50	<50

Table 1
Summary of Groundwater Analytical Results - Volatile Organic Compounds
QAS KC - Fall 2006

Sample ID:							PW-2	PW-3	PW-4	TRENCH
Collect Date:							11/21/2006	11/21/2006	11/21/2006	11/21/2006
Parameter	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**
4-Methyl-2-pentanone (MIBK)	NL	2,000	NL	NL	6,300	ug/l	<50	<50	<50	<50
Methyl tert-butyl ether	NL	11	NL	20	2.6	ug/l	1	11	<1.0	6.9
Naphthalene	NL	6.2	20	100	6.5	ug/l	<5.0	<5.0	<5.0	<5.0
Pentachloroethane	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50
Propionitrile	NL	NL	NL	NL	NL	ug/l	<50	<50	<50	<50
n-Propylbenzene	NL	240	NL	no GTARC	NL	ug/l	<1.0	<1.0	<1.0	<1.0
Styrene	100	1,600	100	100	1,600	ug/l	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NL	0.055	0.17	0.3	0.053	ug/l	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	NL	0.43	70	70	0.41	ug/l	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	0.10	5	5	0.1	ug/l	<1.0	<1.0	<1.0	<1.0
Toluene	1000	720	1000	150	750	ug/l	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	NL	NL	NL	NL	NL	ug/l	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	180	NL	40	7.2	ug/l	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	3,200	200	200	3,200	ug/l	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	0.20	5	5	0.19	ug/l	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.028	NL	5	0.026	ug/l	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	NL	1,300	NL	no GTARC	1,300	ug/l	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NL	0.0056	40	40	0.0053	ug/l	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	NL	12	NL	no GTARC	12	ug/l	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	0.02	2	2	0.015	ug/l	<1.0	<1.0	<1.0	<1.0
Xylenes, Total	10000	210	10000	320	210	ug/l	<3.0	<3.0	<3.0	<3.0

Notes: NL - Not Listed NA - Not Analyzed

All samples listed were analyzed by EPA Method 8260

(Weck)* - Sample was also submitted for to Weck lab

1,4-Dioxane by EPA Method 1625M

Table 1
Summary of Groundwater Analytical Results - Metals
QAS KC - Fall 2005

Sample ID:								EPA-R-1	EPA-R-3	GW-1	GW-2R	GW-3	GW-4	GW-5
Collect Date:								11/18/05	11/17/05	11/17/05	11/18/05	11/18/05	11/18/05	NS
Parameter	**Method**	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**
Arsenic	6010B	50	0.045	50	50	0.045	ug/l	230	1.1	13	21	270	100	DRY
Barium	6010B	2,000	2,600	2,000	2,000	2,600	ug/l	550	220	130	530	360	300	DRY
Cadmium	6010B	5	1.8	5	5	1.8	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	DRY
Chromium	6010B	100	55,000	100	100	55,000	ug/l	<10	<10	<10	<10	<10	<10	DRY
Iron	6010B	NL	11,000	300	NL	11,000	ug/l	29,000	320	2,200	24,000	23,000	46,000	DRY
Lead	6010B	15	NL	15	15	NL	ug/l	27	<5.0	8.9	13	9.1	21	DRY
Manganese	6010B	NL	880	50	50	730	ug/l	12,000	210	130	4,200	1,600	6,700	DRY
Mercury	7470A	2	NL	2	2	NL	ug/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	DRY
Nickel	6010B	NL	730	100	100	730	ug/l	<20	<20	<20	110	150	<20	DRY
Selenium	6010B	50	730	100	100	730	ug/l	<20	<20	<20	<20	<20	<20	DRY
Silver	6010B	NL	180	50	100	180	ug/l	<10	<10	<10	<10	<10	<10	DRY

NL - Not Listed
NS - Not Sampled

Table 1
Summary of Groundwater Analytical Results - Metals
QAS KC - Fall 2005

Sample ID:								GW-6A	GW-6B*	GW-7	GW-8A	GW-8B	GW-8C	GW-9A
Collect Date:								11/17/05	11/17/05	11/17/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	**Method**	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**
Arsenic	6010B	50	0.045	50	50	0.045	ug/l	8.8	7.2	4	6	39	16	18
Barium	6010B	2,000	2,600	2,000	2,000	2,600	ug/l	400	660	250	330	840	1,300	860
Cadmium	6010B	5	1.8	5	5	1.8	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	6010B	100	55,000	100	100	55,000	ug/l	28	<10	<10	<10	48	26	86
Iron	6010B	NL	11,000	300	NL	11,000	ug/l	25,000	38,000	2,500	7,400	42,000	25,000	67,000
Lead	6010B	15	NL	15	15	NL	ug/l	25	6.9	8.7	11	71	28	75
Manganese	6010B	NL	880	50	50	730	ug/l	380	490	460	1,200	1,000	1,300	900
Mercury	7470A	2	NL	2	2	NL	ug/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	6010B	NL	730	100	100	730	ug/l	<20	<20	<20	52	28	<20	57
Selenium	6010B	50	730	100	100	730	ug/l	<20	<20	<20	<20	<20	<20	<20
Silver	6010B	NL	180	50	100	180	ug/l	<10	<10	<10	<10	<10	<10	<10

* - The GW-6B sample was submitted for the Appendix 9 list of metals. Vanadium was also detected at 11 ug/l.

NL - Not Listed
NS - Not Sampled

Table 1
Summary of Groundwater Analytical Results - Metals
QAS KC - Fall 2005

Sample ID:								GW-9B	GW-10A	GW-10B	DUP (GW-10B)	GW-10C	GW-11A	GW-11B
Collect Date:								11/16/05	11/16/05	11/16/05	11/16/05	11/16/05	11/17/05	11/17/05
Parameter	**Method**	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**
Arsenic	6010B	50	0.045	50	50	0.045	ug/l	25	12	34	32	12	2.4	15
Barium	6010B	2,000	2,600	2,000	2,000	2,600	ug/l	420	450	400	400	740	250	300
Cadmium	6010B	5	1.8	5	5	1.8	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	6010B	100	55,000	100	100	55,000	ug/l	<10	55	<10	<10	<10	12	11
Iron	6010B	NL	11,000	300	NL	11,000	ug/l	7,500	34,000	9,100	9,100	7,600	8,600	9,900
Lead	6010B	15	NL	15	15	NL	ug/l	5	47	<5.0	<5.0	5.6	12	8.4
Manganese	6010B	NL	880	50	50	730	ug/l	370	620	290	290	2,700	91	430
Mercury	7470A	2	NL	2	2	NL	ug/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	6010B	NL	730	100	100	730	ug/l	<20	30	<20	<20	<20	<20	40
Selenium	6010B	50	730	100	100	730	ug/l	<20	<20	<20	<20	<20	<20	<20
Silver	6010B	NL	180	50	100	180	ug/l	<10	<10	<10	<10	<10	<10	<10

NL - Not Listed
NS - Not Sampled

Table 1
Summary of Groundwater Analytical Results - Metals
QAS KC - Fall 2005

Sample ID:								GW-11C	GW-12A	GW-12B	GW-12C
Collect Date:								11/17/05	11/16/05	11/16/05	11/16/05
Parameter	**Method**	**NPDWS**	**EPA R IX PRG TBL**	**10CSR 20-7 Missouri**	**CALM**	**EPA R III RBC Tbl**	**Units**	**Value**	**Value**	**Value**	**Value**
Arsenic	6010B	50	0.045	50	50	0.045	ug/l	48	22	35	10
Barium	6010B	2,000	2,600	2,000	2,000	2,600	ug/l	950	1,600	500	1,000
Cadmium	6010B	5	1.8	5	5	1.8	ug/l	<5.0	9.4	<5.0	<5.0
Chromium	6010B	100	55,000	100	100	55,000	ug/l	45	210	64	30
Iron	6010B	NL	11,000	300	NL	11,000	ug/l	41,000	160,000	41,000	28,000
Lead	6010B	15	NL	15	15	NL	ug/l	44	170	57	28
Manganese	6010B	NL	880	50	50	730	ug/l	2,400	11,000	880	2,000
Mercury	7470A	2	NL	2	2	NL	ug/l	<0.20	0.3	<0.20	<0.20
Nickel	6010B	NL	730	100	100	730	ug/l	82	230	39	<20
Selenium	6010B	50	730	100	100	730	ug/l	<20	<20	<20	<20
Silver	6010B	NL	180	50	100	180	ug/l	<10	<10	<10	<10

NL - Not Listed
NS - Not Sampled

Table 1
Summary of Groundwater Analytical Results - LNAPL
QAS KC - Spring 2006

Sample ID: (collected from GW-4)			LNAPL
Collect Date			11/21/2006
Parameter	**Method**	**Units**	**Value**
Viscosity	D 2196	cp	95
Ignitability	D4982	Deg. F	DNI up to 170° F
TOX	9076	mg/kg	380
Arsenic	6010B	mg/kg	25
Cadmium	6010B	mg/kg	1.2
Chromium	6010B	mg/kg	11
Benzene	8021/OA1	mg/kg	0.55
Toluene	8021/OA1	mg/kg	<5.0
Ethylbenzene	8021/OA1	mg/kg	7.9
Total Xylene	8021/OA1	mg/kg	100
Methyl tert-butyl ether	8021/OA1	mg/kg	<5.0
TPH (GC/FID) Low Fraction	8021/OA1	mg/kg	1000
PCB 1016	8082	mg/kg	<2.6
PCB 1221	8082	mg/kg	<2.6
PCB 1232	8082	mg/kg	<2.6
PCB 1242	8082	mg/kg	<2.6
PCB 1248	8082	mg/kg	<2.6
PCB 1254	8082	mg/kg	<2.6
PCB 1260	8082	mg/kg	<2.6

Notes

DNI - Did not ignite
TOX - Total Organic Biphenyls
PCB's - Polychlorinated Biphenyls
cp - centa-Poise (water has a viscosity of 1.002cP)

Table 2
Summary of Groundwater Elevation and Well Data
QAS KC - Fall 2006

Well Number	Date Measured	Ground Elevation	Top of Casing Elevation	Bottom as Installed Elevation	Top of Screen Elevation	Length of Screen	Measured Depth of Well	Well Depth Elevation	Depth to Product	Depth to Water	Product Thickness	Static Water Elevation	Corrected Water Elevation
UNITS	MM/DD/YY	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET
GW-1	11/20/06	793.02	795.66	777.35	782.35	5	13.71	777.85	NA	11.80	NA	783.86	NA
GW-2R	11/20/06	789.38	793.21	761.06	771.06	10	NM	761.06	NA	20.32	NA	772.89	NA
GW-3	11/20/06	784.39	784.39	749.20	754.20	5	NM	749.54	24.70	24.93	0.23	759.46	759.64
GW-4	11/20/06	782.06	786.68	744.20	759.20	15	NM	749.40	18.07	19.69	1.62	766.99	768.29
GW-5	11/20/06	777.91	780.28	762.78	772.78	10	16.91	763.38	NA	16.12	NA	764.16	NA
GW-6A	11/20/06	773.32	772.82	749.32	759.32	10	23.49	749.20	NA	20.07	NA	752.75	NA
GW-6B	11/20/06	767.57	767.07	690.57	695.57	5	71.20	691.42	NA	22.00	NA	745.07	NA
GW-7	11/20/06	783.74	783.24	757.74	768.24	10	25.45	757.74	NA	20.58	NA	762.66	NA
GW-8A	11/20/06	762.95	763.45	748.95	758.95	10	14.15	749.35	NA	10.76	NA	752.69	NA
GW-8B	11/20/06	763.50	764.00	691.00	696.00	5	71.87	692.20	NA	19.42	NA	744.58	NA
GW-8C	11/20/06	764.53	764.16	715.50	725.50	10	48.25	715.50	NA	18.30	NA	745.86	NA
GW-9A	11/20/06	767.54	766.95	743.04	753.54	10	23.75	743.13	NA	14.99	NA	751.96	NA
GW-9B	11/20/06	767.89	767.47	690.89	696.39	5	76.02	691.29	NA	24.02	NA	743.45	NA
GW-10A	11/20/06	766.69	766.49	747.19	757.69	10	18.61	747.44	NA	14.31	NA	752.18	NA
GW-10B	11/20/06	767.03	766.54	691.03	696.53	5	75.35	691.20	NA	23.27	NA	743.27	NA
GW-10C	11/20/06	767.60	767.28	717.11	707.11	10	49.17	718.11	NA	19.79	NA	747.49	NA
GW-11A	11/20/06	772.14	774.96	741.64	757.14	15	33.85	740.94	NA	22.62	NA	752.34	NA
GW-11B	11/20/06	771.81	774.12	693.81	699.31	5	79.10	694.94	NA	31.20	NA	742.92	NA
GW-11C	11/20/06	771.88	775.02	718.38	728.88	10	53.40	720.71	NA	24.56	NA	750.46	NA
GW-12A	11/20/06	NM	758.69	729.03	745.53	15	28.93	729.76	NA	19.59	NA	739.10	NA
GW-12B	11/20/06	NM	758.54	690.93	696.43	5	66.98	691.56	NA	19.30	NA	739.24	NA
GW-12C	11/20/06	NM	758.58	708.97	719.47	10	48.77	709.81	NA	16.39	NA	742.19	NA
EPA-R1	11/20/06	775.02	777.57	752.50	762.50	10	NM	NM	20.76	20.79	0.03	756.78	756.80
EPA-R3	11/20/06	786.00	787.12	737.62	750.12	12	49.04	738.12	NA	24.86	NA	762.26	NA

Note: The water levels for wells GW-11B and GW-11C were inadvertently switched in the field notes. This was confirmed by utilizing the wells' dataloggers.

NA - Not Applicable
NM - Not Measured

Table 3.1
Summary of Horizontal Hydraulic Gradients
QAS - KC - Spring 2006

A-Horizon	ID	Distance to GW-12A (feet)	Horizontal Gradient
	GW-8A	286.8	-0.047
	GW-10A	268.8	-0.037
	GW-11A	325.3	-0.041
		Average:	-0.042

B-Horizon	ID	Distance to GW-12B (feet)	Horizontal Gradient
	GW-8B	278.0	-0.019
	GW-10B	234.0	-0.017
	GW-11B	326.9	-0.011
		Average:	-0.016

C-Horizon	ID	Distance to GW-12C (feet)	Horizontal Gradient
	GW-8C	270.0	-0.014
	GW-10C	276.0	-0.019
	GW-11C	275.7	-0.030
		Average:	-0.021

Note: A negative hydraulic gradient for the preceding wells indicates a westerly horizontal gradient, toward Well GW-12.

Table 3.2
Horizontal Velocity Calculation
QAS - KC - Spring 2006

Velocity = (Hydraulic Conductivity) x (Hydraulic Gradient)/(Porosity)

Assumed Hydraulic Conductivity	Average Horizontal Hydraulic Gradient	Porosity	Horizontal Velocity
ft/day	ft/ft	%	ft/day
4.25E-01	0.042	5	0.3549

Note: Calculated for the A-Horizon, based on assumed K of 4.25×10^{-1} feet/day

Table 3.3
Summary of Vertical Hydraulic Gradients A-to-C
QAS - KC - Spring 2006

Well ID	Ground Water Elevation (feet above MSL)	Depth to Water (feet)	TOC Elevation (feet above MSL)	Intake (TOS) Elevation BGS	Vertical Gradient
GW-8A	752.69	10.76	763.45	758.95	-0.204
GW-8C	745.86	18.30	764.16	725.50	
GW-10A	752.18	14.31	766.49	757.69	-0.093
GW-10C	747.49	19.79	767.28	707.11	
GW-11A	752.34	22.62	774.96	757.14	-0.067
GW-11C	750.46	24.56	775.02	728.88	
GW-12A	739.10	19.59	758.69	745.53	0.119
GW-12C	742.19	16.39	758.58	719.47	
				Average:	-0.061

Note: A negative vertical hydraulic gradient for the preceding wells indicates a downward vertical gradient from the A-Horizon to the C-Horizon.

MSL - Mean Sea Level
TOC - Top of Casing
TOS - Top of Screen
BGS - Below Ground Surface

Table 3.4
Summary of Vertical Hydraulic Gradients C-to-B
QAS - KC - Spring 2006

Well ID	Ground Water Elevation (feet above MSL)	Depth to Water (feet)	TOC Elevation (feet above MSL)	Intake (TOS) Elevation BGS	Vertical Gradient
GW-8C	745.86	18.30	764.16	725.50	-0.043
GW-8B	744.58	19.42	764.00	696.00	
GW-10C	747.49	19.79	767.28	707.11	-0.399
GW-10B	743.27	23.27	766.54	696.53	
GW-11C	750.46	24.56	775.02	728.88	-0.255
GW-11B	742.92	31.20	774.12	699.31	
GW-12C	742.19	16.39	758.58	719.47	-0.128
GW-12B	739.24	19.30	758.54	696.43	
				Average:	-0.206

Note: A negative vertical hydraulic gradient for the preceding wells indicates a downward vertical gradient from the C-Horizon to the B-Horizon.

MSL - Mean Sea Level
TOC - Top of Casing
TOS - Top of Screen
BGS - Below Ground Surface

Table 3.5
Vertical Velocity Calculation
QAS - KC - Spring 2006

Velocity=(Hydraulic Conductivity)x(Hydraulic Gradient)/(Porosity)

	A-Horizon to C-Horizon			
Location	Assumed Hydraulic Conductivity	Average Vertical Hydraulic Gradient *	Porosity	Vertical Velocity
Units	ft/day	ft/ft	%	ft/day
Average	4.25E-01	-0.061	5	-0.5203
GW-8	4.25E-01	-0.204	5	-1.7356
GW-10	4.25E-01	-0.093	5	-0.7882
GW-11	4.25E-01	-0.067	5	-0.5655
GW-12	4.25E-01	0.119	5	1.0079

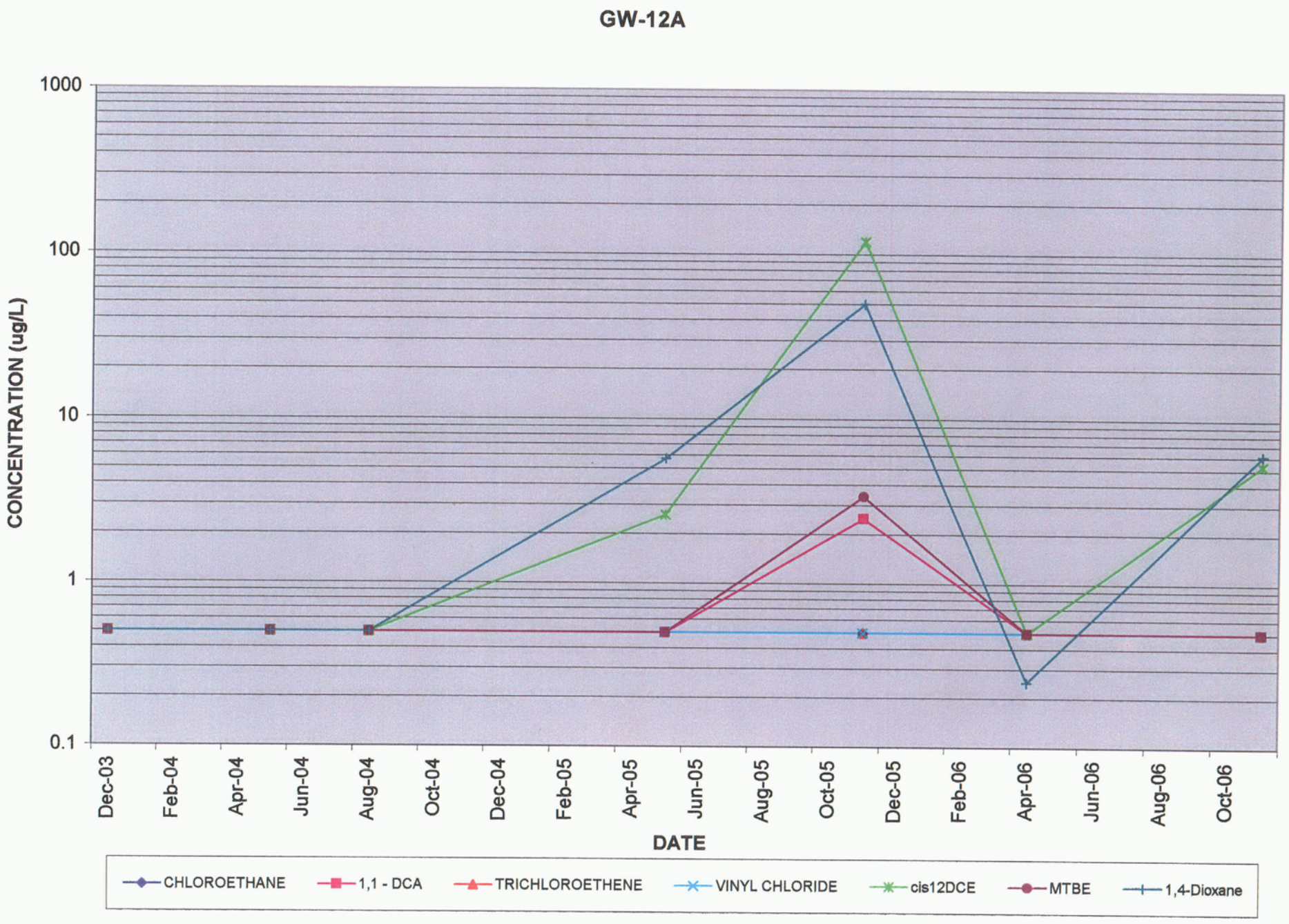
Note: A negative value for hydraulic gradient in the preceding equation indicates a downward vertical gradient from the A-Horizon to the C-Horizon.

* - Value from Table 3.3

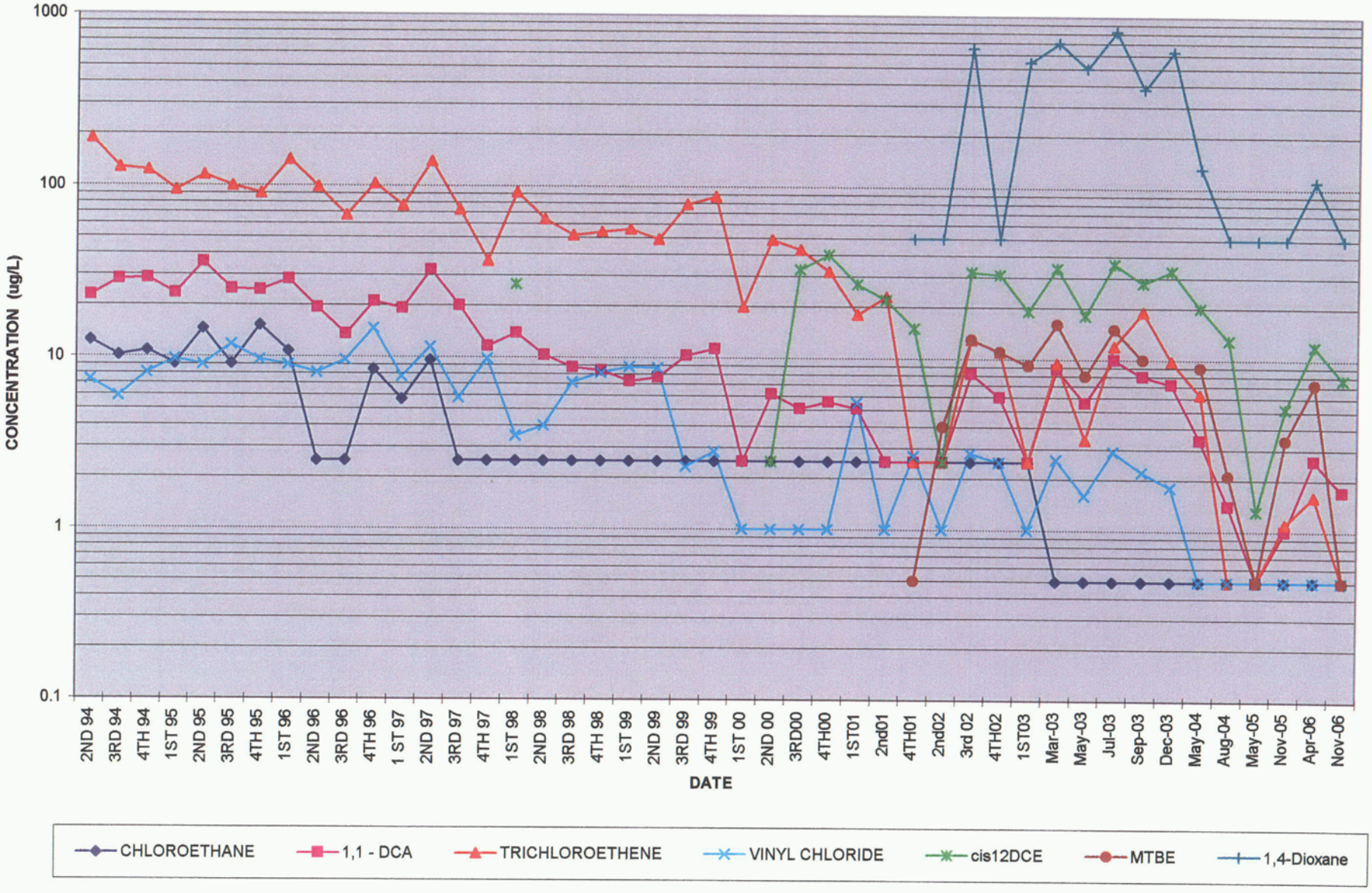
Appendix A

Appendix A

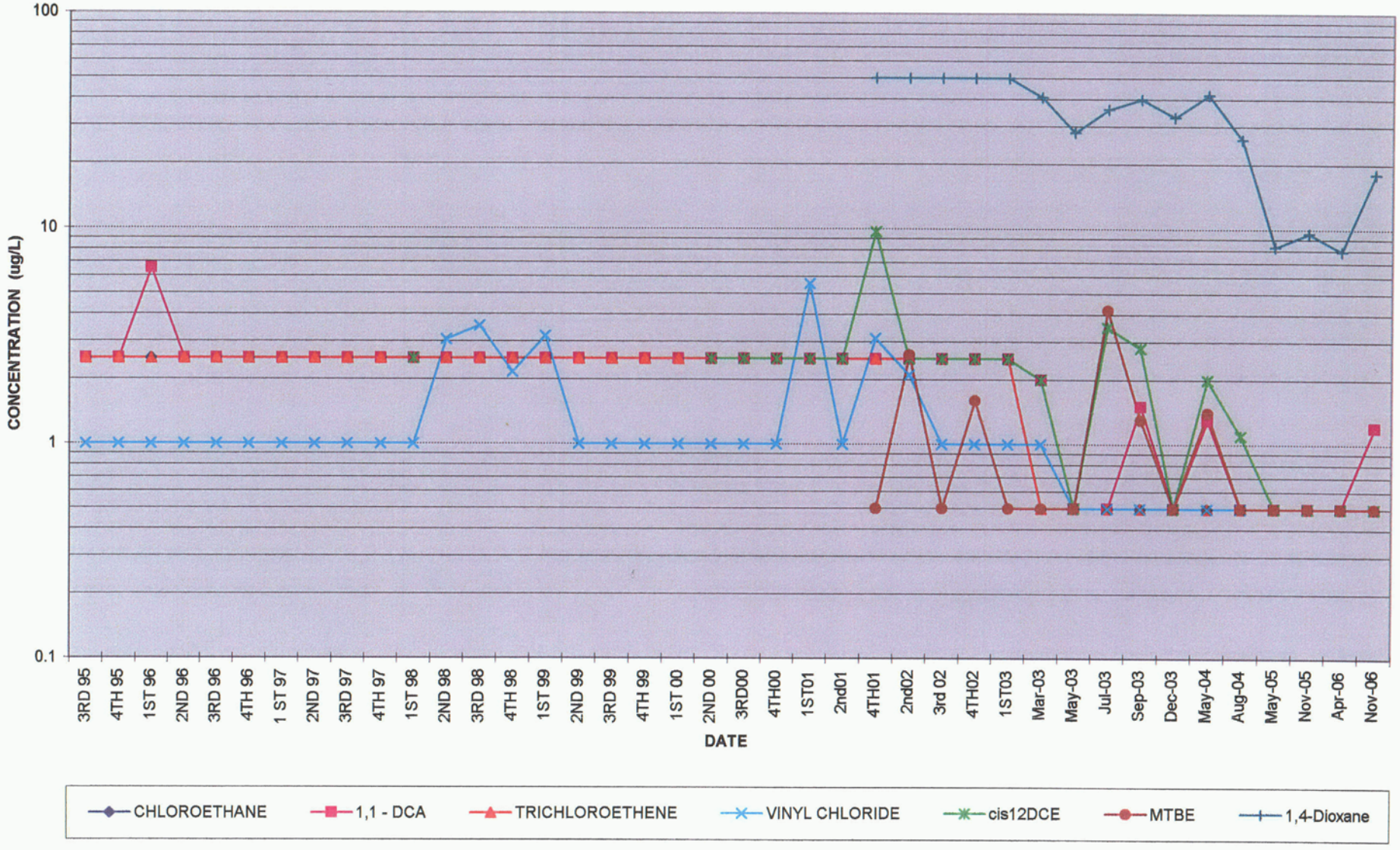
Time Series Charts


GW-12A
1000
100
10
1
0.1
CONCENTRATION (ug/L)
Dec-03
Feb-04
Apr-04
Jun-04
Aug-04
Oct-04
Dec-04
Feb-05
Apr-05
Jun-05
Aug-05
Oct-05
Dec-05
Feb-06
Apr-06
Jun-06
Aug-06
Oct-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

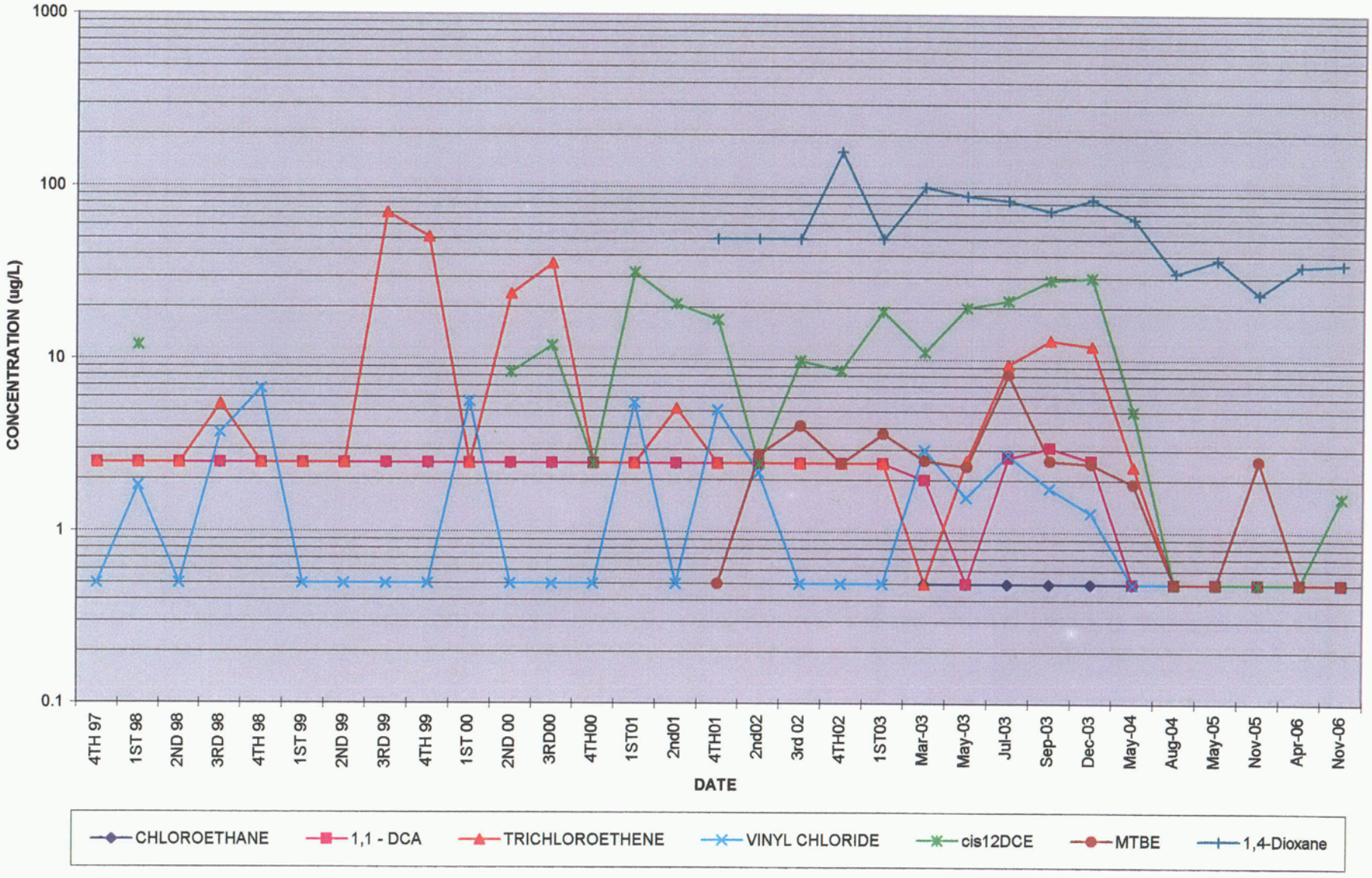
GW-6B


1000
100
10
1
0.1
CONCENTRATION (ug/L)
2ND 94
3RD 94
4TH 94
1ST 95
2ND 95
3RD 95
4TH 95
1ST 96
2ND 96
3RD 96
4TH 96
1 ST 97
2ND 97
3RD 97
4TH 97
1ST 98
2ND 98
3RD 98
4TH 98
1ST 99
2ND 99
3RD 99
4TH 99
1ST 00
2ND 00
3RD00
4TH00
1ST01
2nd01
4TH01
2nd02
3rd 02
4TH02
1ST03
Mar-03
May-03
Jul-03
Sep-03
Dec-03
May-04
Aug-04
May-05
Nov-05
Apr-06
Nov-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

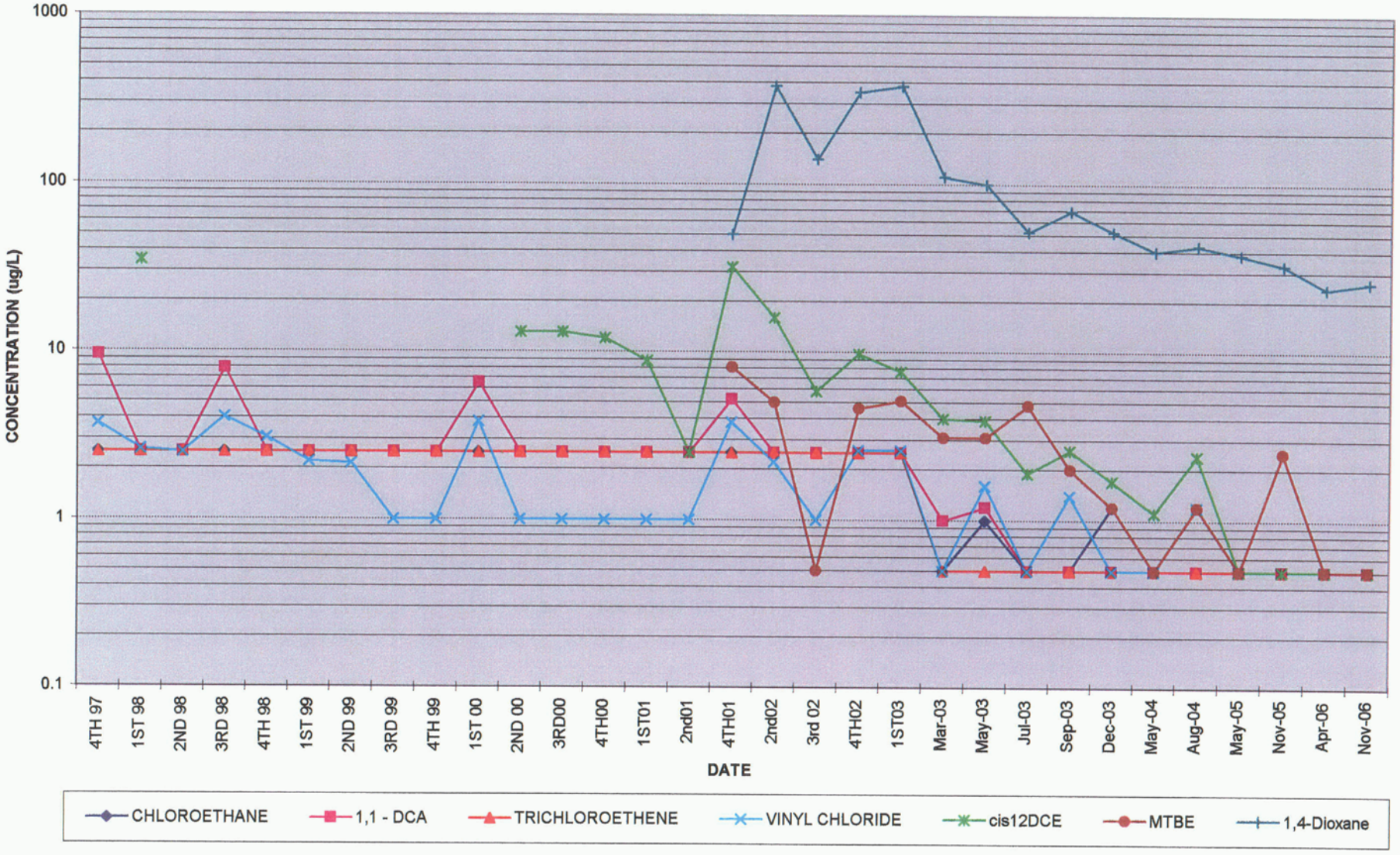
GW-8B


100
10
1
0.1
CONCENTRATION (ug/L)
3RD 95
4TH 95
1ST 96
2ND 96
3RD 96
4TH 96
1 ST 97
2ND 97
3RD 97
4TH 97
1ST 98
2ND 98
3RD 98
4TH 98
1ST 99
2ND 99
3RD 99
4TH 99
1ST 00
2ND 00
3RD00
4TH00
1ST01
2nd01
4TH01
2nd02
3rd 02
4TH02
1ST03
Mar-03
May-03
Jul-03
Sep-03
Dec-03
May-04
Aug-04
May-05
Nov-05
Apr-06
Nov-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

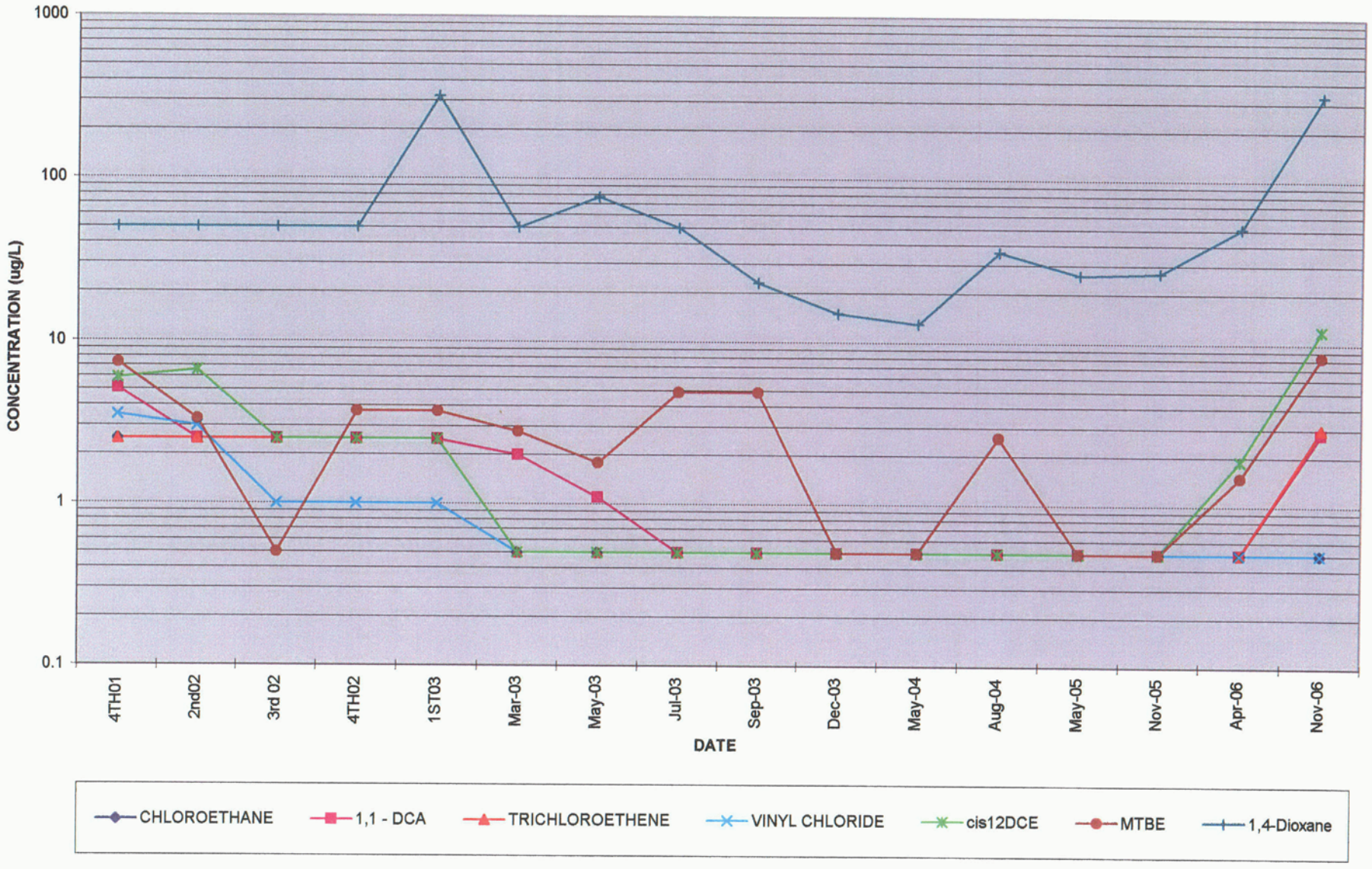
GW-9B

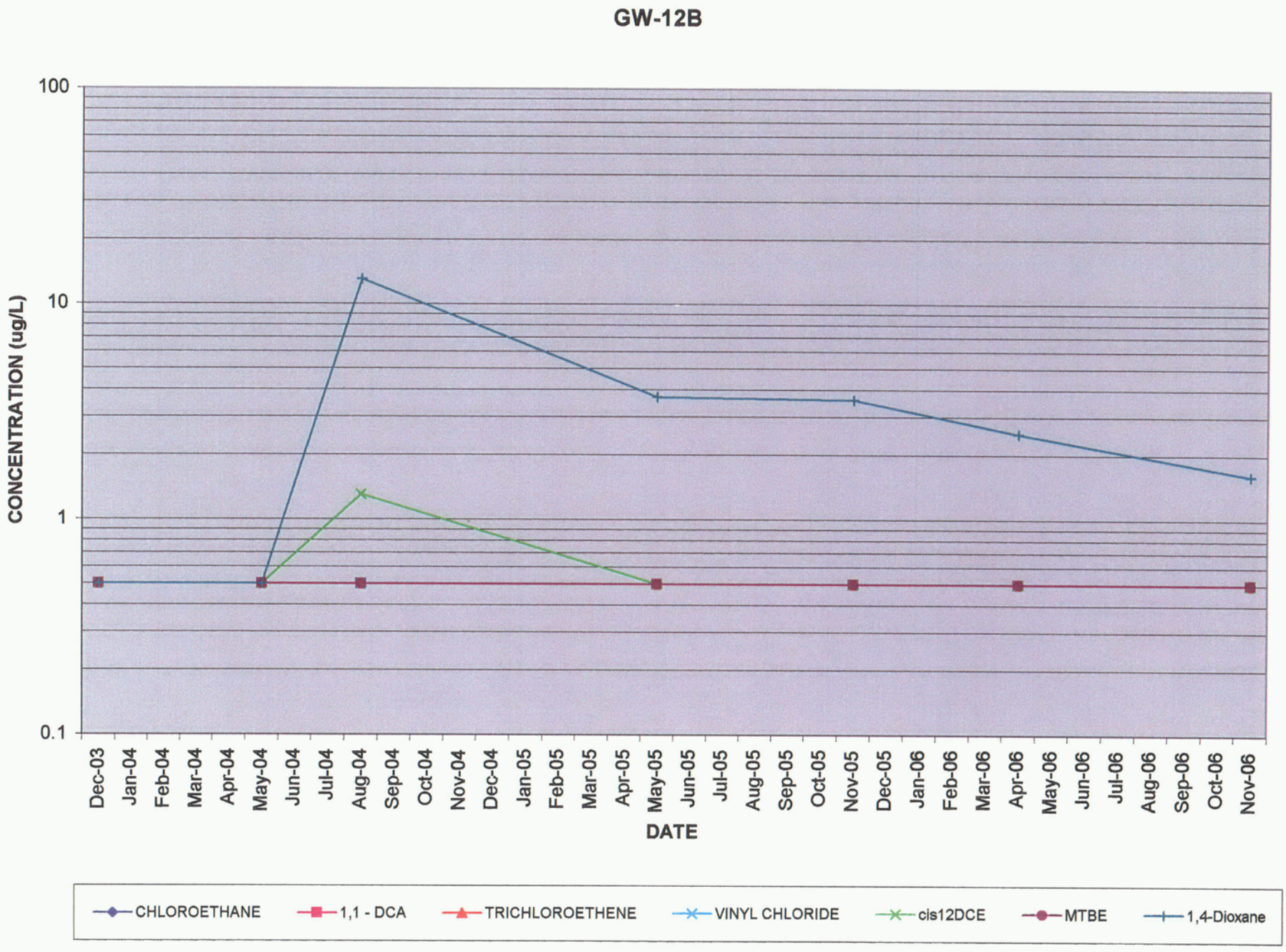

1000
100
10
1
0.1
CONCENTRATION (ug/L)
4TH 97
1ST 98
2ND 98
3RD 98
4TH 98
1ST 99
2ND 99
3RD 99
4TH 99
1ST 00
2ND 00
3RD00
4TH00
1ST01
2nd01
4TH01
2nd02
3rd 02
4TH02
1ST03
Mar-03
May-03
Jul-03
Sep-03
Dec-03
May-04
Aug-04
May-05
Nov-05
Apr-06
Nov-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

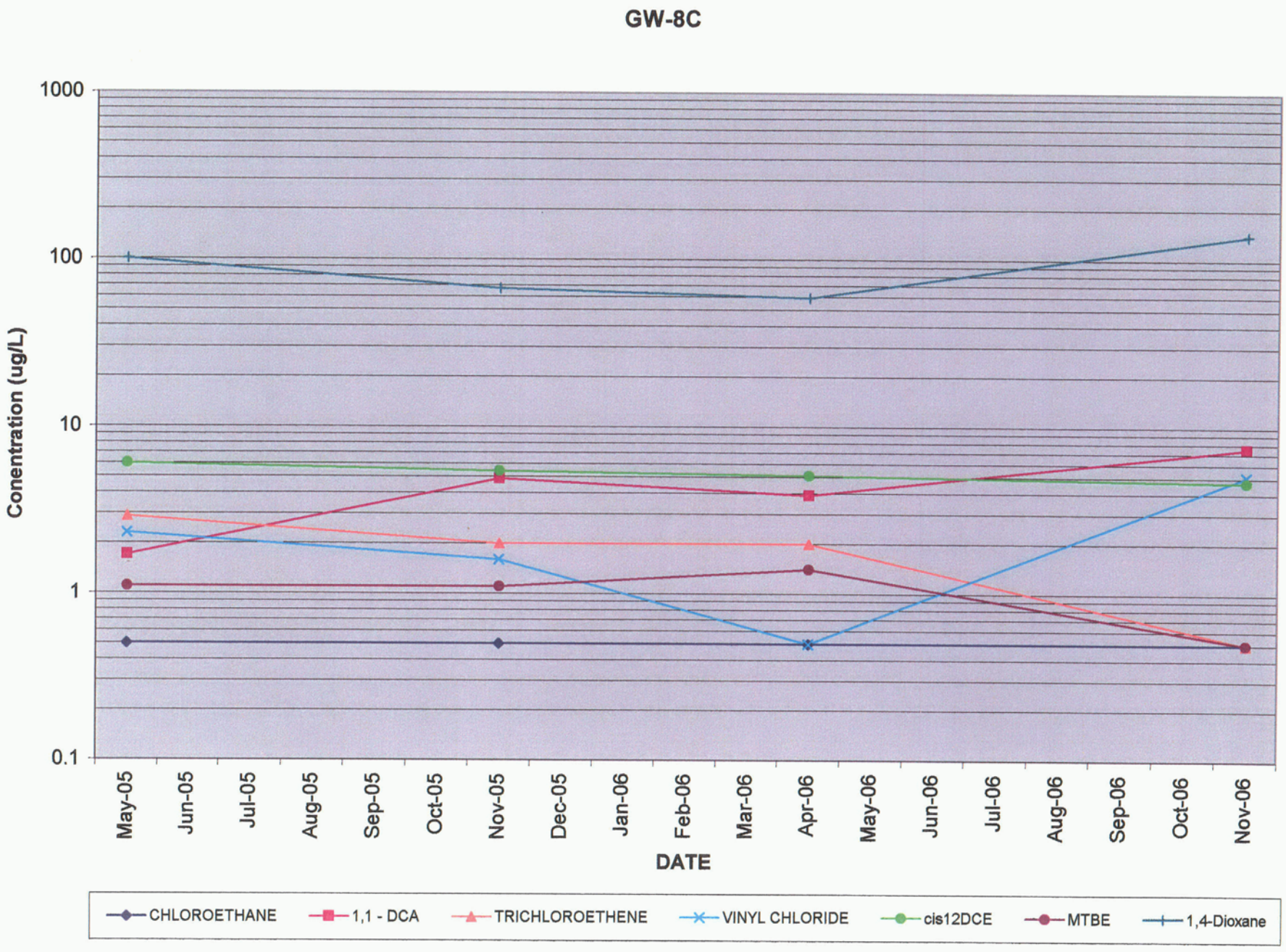
GW-10B

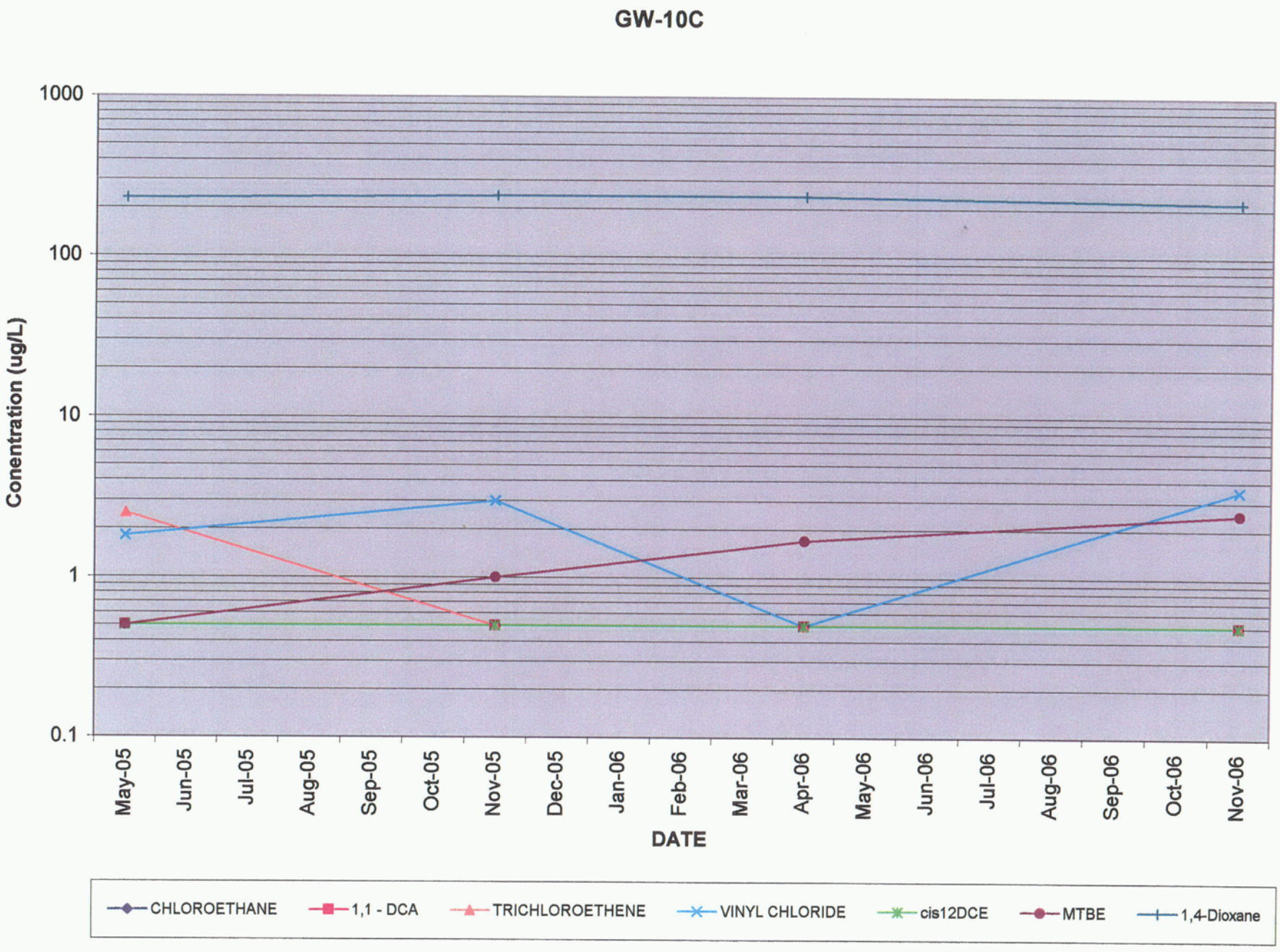

1000
100
10
1
0.1
CONCENTRATION (ug/L)
4TH 97
1ST 98
2ND 98
3RD 98
4TH 98
1ST 99
2ND 99
3RD 99
4TH 99
1ST 00
2ND 00
3RD00
4TH00
1ST01
2nd01
4TH01
2nd02
3rd 02
4TH02
1ST03
Mar-03
May-03
Jul-03
Sep-03
Dec-03
May-04
Aug-04
May-05
Nov-05
Apr-06
Nov-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

GW-11B

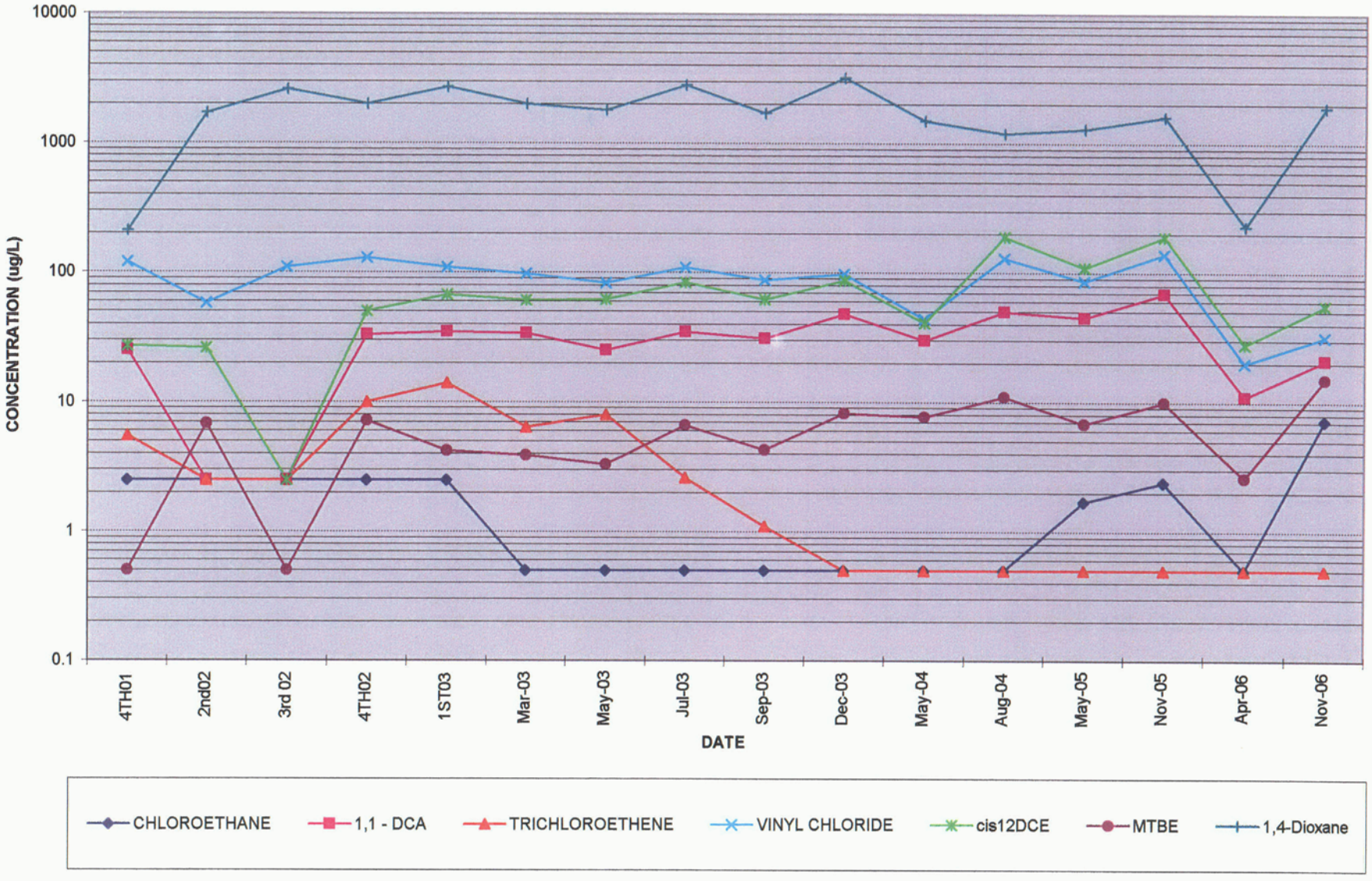

1000
100
10
1
0.1
CONCENTRATION (ug/L)
4TH01
2nd02
3rd 02
4TH02
1ST03
Mar-03
May-03
Jul-03
Sep-03
Dec-03
May-04
Aug-04
May-05
Nov-05
Apr-06
Nov-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

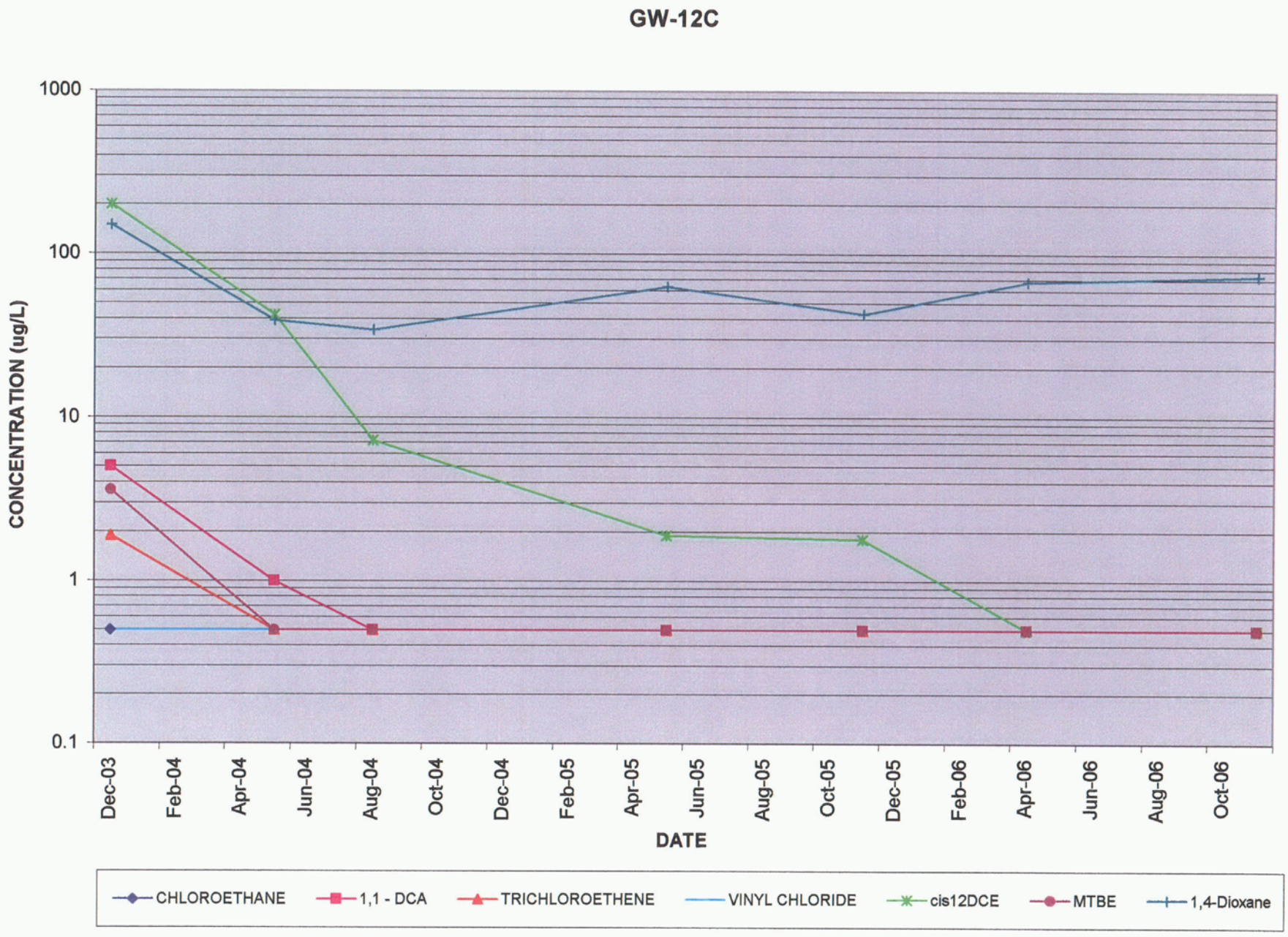

GW-12B
100
10
1
0.1
CONCENTRATION (ug/L)
Dec-03
Jan-04
Feb-04
Mar-04
Apr-04
May-04
Jun-04
Jul-04
Aug-04
Sep-04
Oct-04
Nov-04
Dec-04
Jan-05
Feb-05
Mar-05
Apr-05
May-05
Jun-05
Jul-05
Aug-05
Sep-05
Oct-05
Nov-05
Dec-05
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

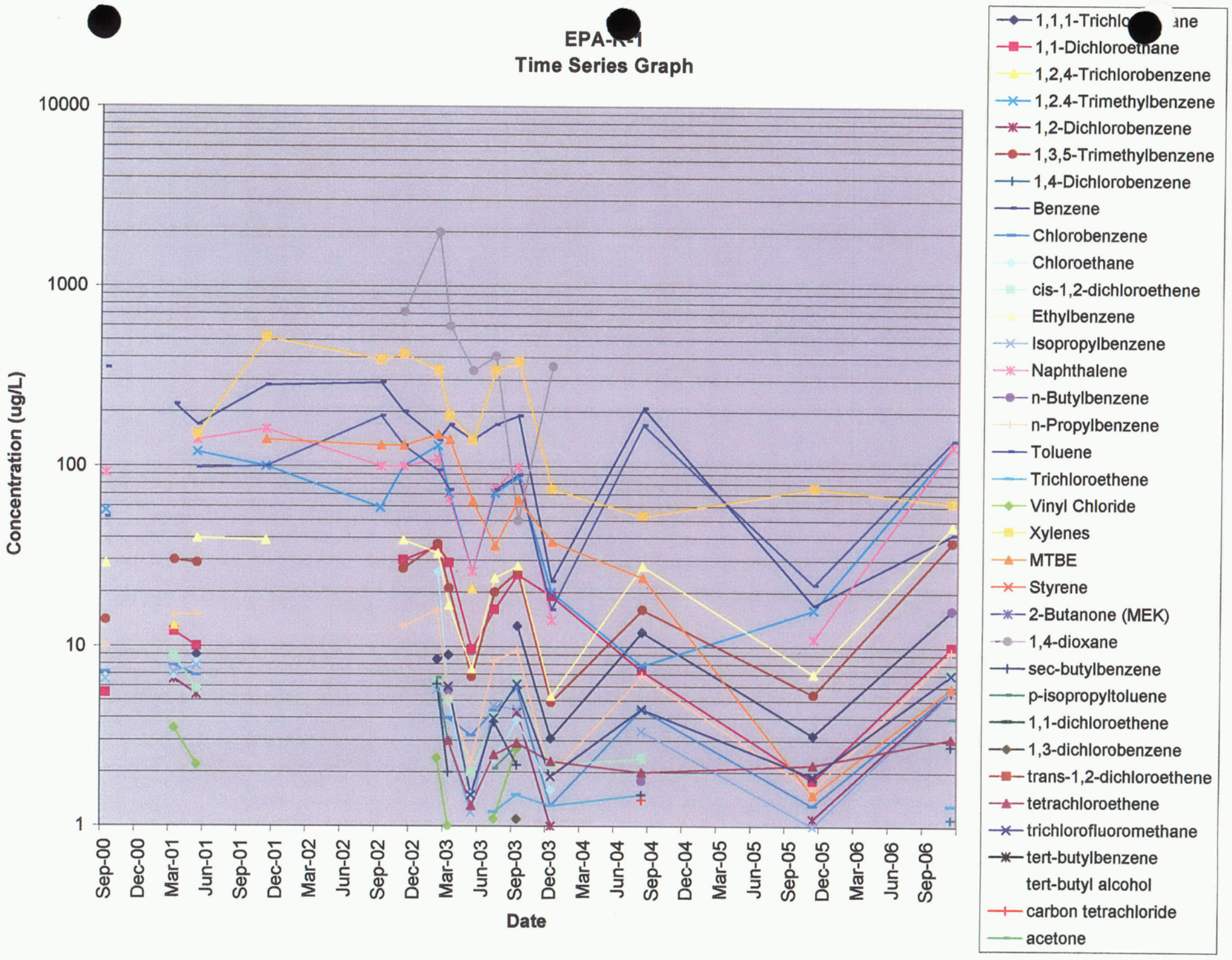

GW-8C
1000
100
10
1
0.1
Conentration (ug/L)
May-05
Jun-05
Jul-05
Aug-05
Sep-05
Oct-05
Nov-05
Dec-05
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

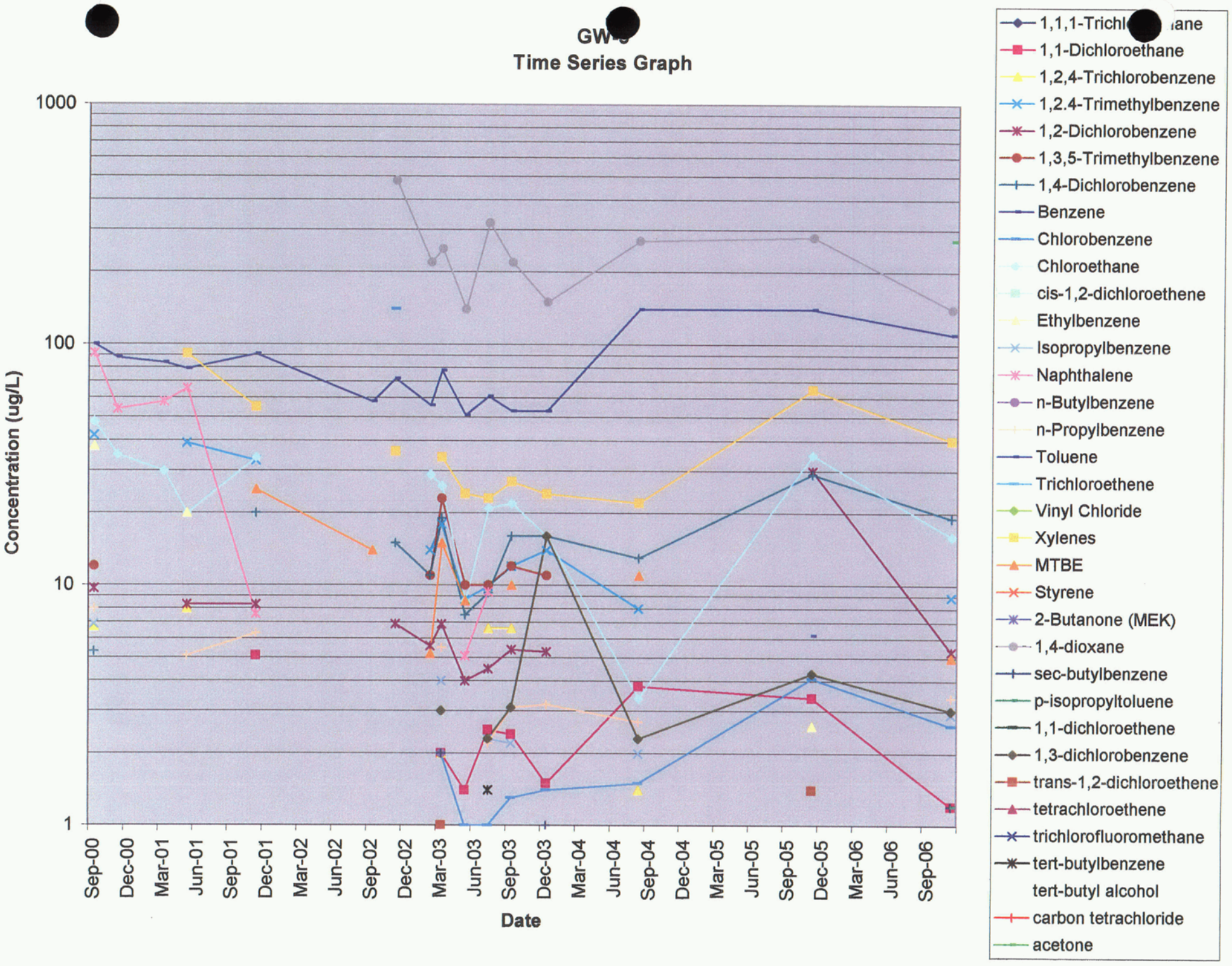

GW-10C
1000
100
10
1
0.1
Conentration (ug/L)
May-05
Jun-05
Jul-05
Aug-05
Sep-05
Oct-05
Nov-05
Dec-05
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

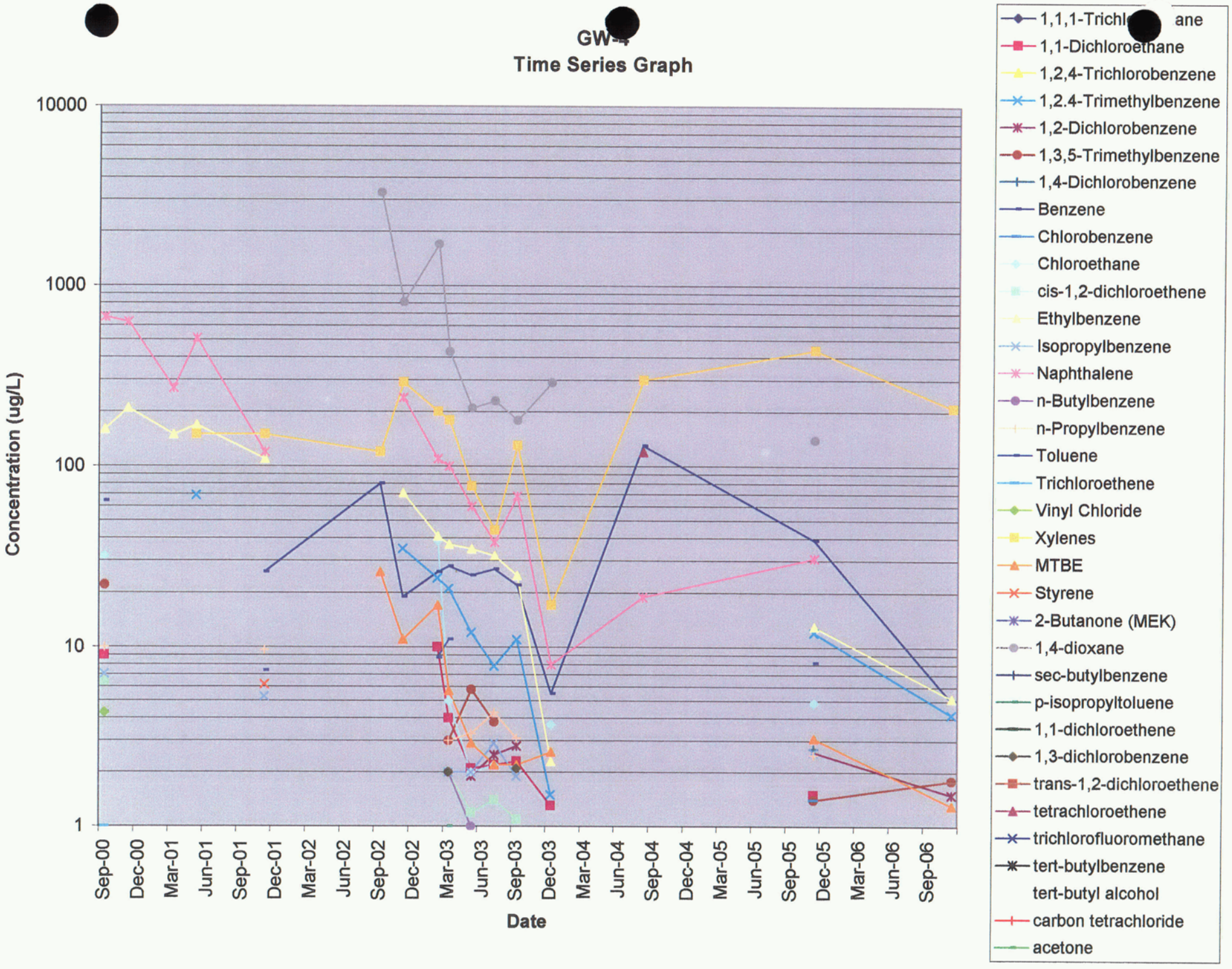
GW-11C

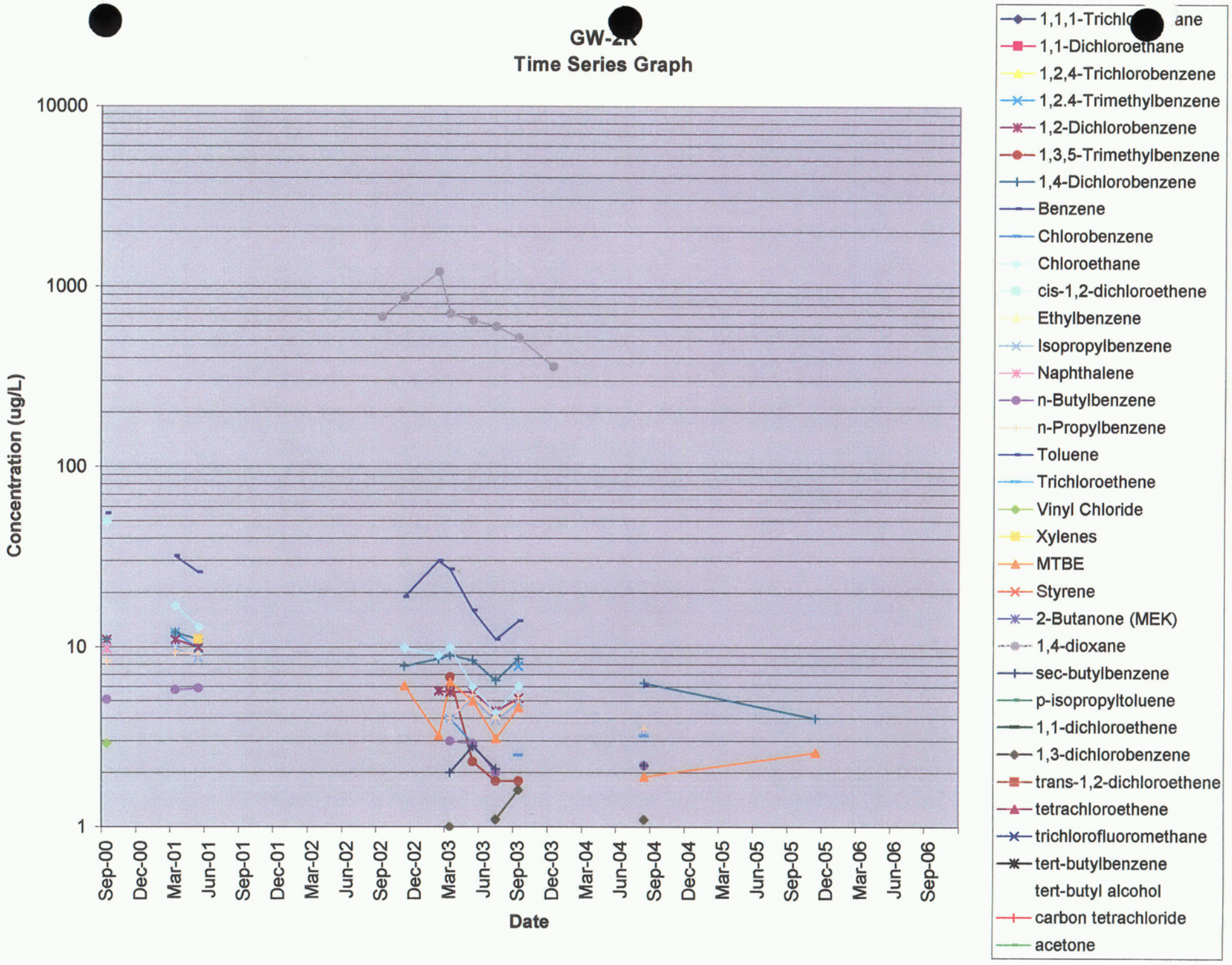

10000
1000
100
10
1
0.1
CONCENTRATION (ug/L)
4TH01
2nd02
3rd 02
4TH02
1ST03
Mar-03
May-03
Jul-03
Sep-03
Dec-03
May-04
Aug-04
May-05
Nov-05
Apr-06
Nov-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane

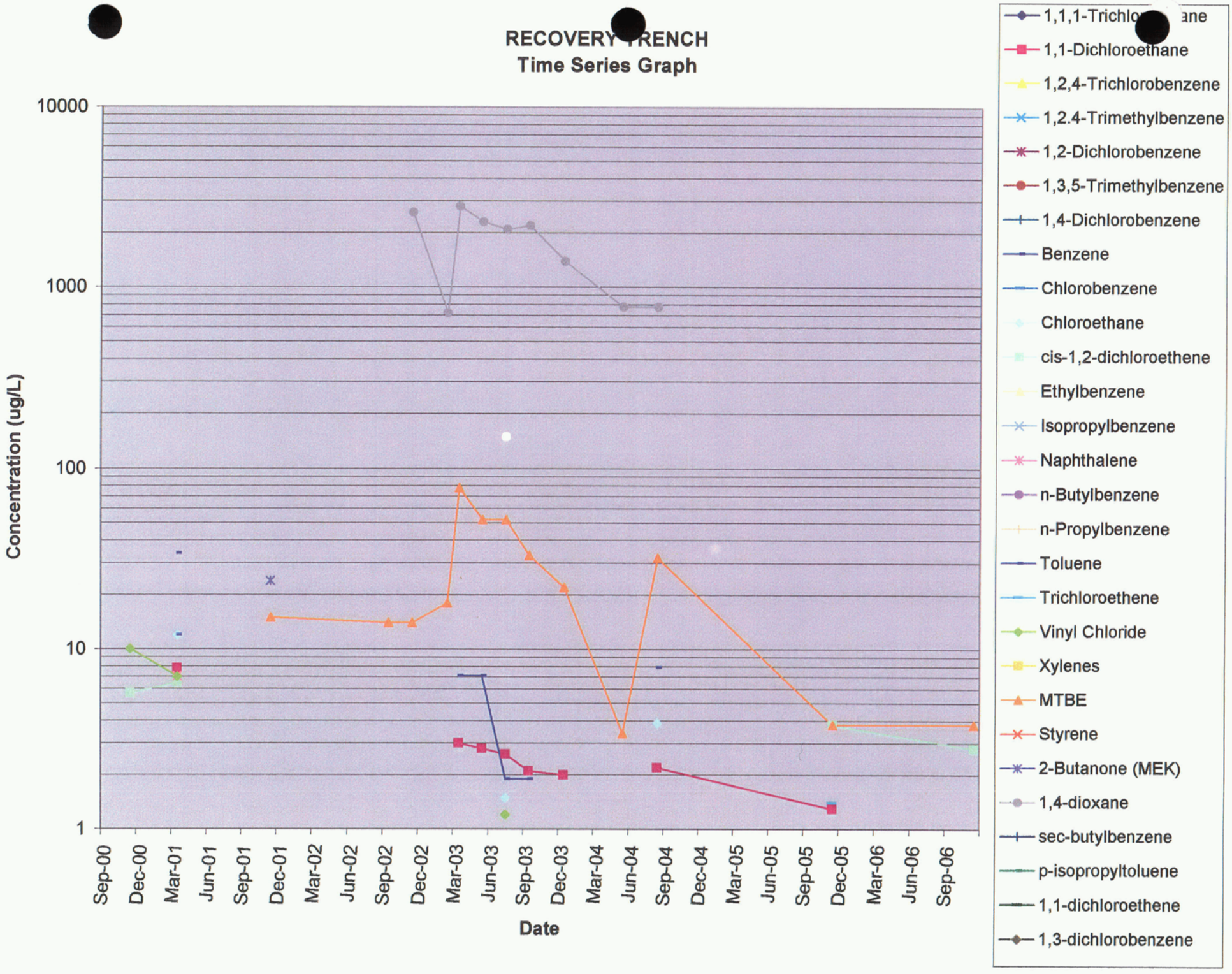

GW-12C
1000
100
10
1
0.1
CONCENTRATION (ug/L)
Dec-03
Feb-04
Apr-04
Jun-04
Aug-04
Oct-04
Dec-04
Feb-05
Apr-05
Jun-05
Aug-05
Oct-05
Dec-05
Feb-06
Apr-06
Jun-06
Aug-06
Oct-06
DATE
CHLOROETHANE
1,1 - DCA
TRICHLOROETHENE
VINYL CHLORIDE
cis12DCE
MTBE
1,4-Dioxane


EPA-R-1
Time Series Graph
Concentration (ug/L)
10000
1000
100
10
1
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
Dec-05
Mar-06
Jun-06
Sep-06
Date
1,1,1-Trichloroethane
1,1-Dichloroethane
1,2,4-Trichlorobenzene
1,2.4-Trimethylbenzene
1,2-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
Benzene
Chlorobenzene
Chloroethane
cis-1,2-dichloroethene
Ethylbenzene
Isopropylbenzene
Naphthalene
n-Butylbenzene
n-Propylbenzene
Toluene
Trichloroethene
Vinyl Chloride
Xylenes
MTBE
Styrene
2-Butanone (MEK)
1,4-dioxane
sec-butylbenzene
p-isopropyltoluene
1,1-dichloroethene
1,3-dichlorobenzene
trans-1,2-dichloroethene
tetrachloroethene
trichlorofluoromethane
tert-butylbenzene
tert-butyl alcohol
carbon tetrachloride
acetone


GW
Time Series Graph
Concentration (ug/L)
1000
100
10
1
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
Dec-05
Mar-06
Jun-06
Sep-06
Date
1,1,1-Trichl ane
1,1-Dichloroethane
1,2,4-Trichlorobenzene
1,2.4-Trimethylbenzene
1,2-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
Benzene
Chlorobenzene
Chloroethane
cis-1,2-dichloroethene
Ethylbenzene
Isopropylbenzene
Naphthalene
n-Butylbenzene
n-Propylbenzene
Toluene
Trichloroethene
Vinyl Chloride
Xylenes
MTBE
Styrene
2-Butanone (MEK)
1,4-dioxane
sec-butylbenzene
p-isopropyltoluene
1,1-dichloroethene
1,3-dichlorobenzene
trans-1,2-dichloroethene
tetrachloroethene
trichlorofluoromethane
tert-butylbenzene
tert-butyl alcohol
carbon tetrachloride
acetone


GW-4
Time Series Graph
Concentration (ug/L)
10000
1000
100
10
1
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
Dec-05
Mar-06
Jun-06
Sep-06
Date
1,1,1-Trichloroethane
1,1-Dichloroethane
1,2,4-Trichlorobenzene
1,2.4-Trimethylbenzene
1,2-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
Benzene
Chlorobenzene
Chloroethane
cis-1,2-dichloroethene
Ethylbenzene
Isopropylbenzene
Naphthalene
n-Butylbenzene
n-Propylbenzene
Toluene
Trichloroethene
Vinyl Chloride
Xylenes
MTBE
Styrene
2-Butanone (MEK)
1,4-dioxane
sec-butylbenzene
p-isopropyltoluene
1,1-dichloroethene
1,3-dichlorobenzene
trans-1,2-dichloroethene
tetrachloroethene
trichlorofluoromethane
tert-butylbenzene
tert-butyl alcohol
carbon tetrachloride
acetone


GW-2R
Time Series Graph
Concentration (ug/L)
10000
1000
100
10
1
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
Dec-05
Mar-06
Jun-06
Sep-06
Date
1,1,1-Trichloroethane
1,1-Dichloroethane
1,2,4-Trichlorobenzene
1,2.4-Trimethylbenzene
1,2-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
Benzene
Chlorobenzene
Chloroethane
cis-1,2-dichloroethene
Ethylbenzene
Isopropylbenzene
Naphthalene
n-Butylbenzene
n-Propylbenzene
Toluene
Trichloroethene
Vinyl Chloride
Xylenes
MTBE
Styrene
2-Butanone (MEK)
1,4-dioxane
sec-butylbenzene
p-isopropyltoluene
1,1-dichloroethene
1,3-dichlorobenzene
trans-1,2-dichloroethene
tetrachloroethene
trichlorofluoromethane
tert-butylbenzene
tert-butyl alcohol
carbon tetrachloride
acetone


RECOVERY TRENCH
Time Series Graph
Concentration (ug/L)
10000
1000
100
10
1
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
Dec-05
Mar-06
Jun-06
Sep-06
Date
1,1,1-Trichloroethane
1,1-Dichloroethane
1,2,4-Trichlorobenzene
1,2.4-Trimethylbenzene
1,2-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
Benzene
Chlorobenzene
Chloroethane
cis-1,2-dichloroethene
Ethylbenzene
Isopropylbenzene
Naphthalene
n-Butylbenzene
n-Propylbenzene
Toluene
Trichloroethene
Vinyl Chloride
Xylenes
MTBE
Styrene
2-Butanone (MEK)
1,4-dioxane
sec-butylbenzene
p-isopropyltoluene
1,1-dichloroethene
1,3-dichlorobenzene

Appendix B

Appendix B

Lab Reports

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd

Shawnee, KS 66203

Report Summary

Friday December 01, 2006

Report Number: L269960
Samples Received: 11/21/06
Client Project:

Description: ISC-KC Post Closure

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Reviewed By: _____
Tom Mellette, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, WA - C1915

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ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-01

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	210	100	ug/l	9056	11/22/06	1
Sulfate	58000	5000	ug/l	9056	11/22/06	1
Cyanide	2.1	2.0	ug/l	9012	11/27/06	1
Chromium,Hexavalent	BDL	10.	ug/l	7196A	11/21/06	1
Sulfide	BDL	50.	ug/l	376.2	11/27/06	1
Arsenic	6.0	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	330	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	BDL	10.	ug/l	6010B	11/28/06	1
Lead	11.	5.0	ug/l	6010B	11/28/06	1
Manganese	1200	10.	ug/l	6010B	11/28/06	1
Nickel	52.	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/30/06	1
Acrolein	BDL	50.	ug/l	8260B	11/30/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Allyl chloride	BDL	50.	ug/l	8260B	11/30/06	1
Benzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromoform	BDL	1.0	ug/l	8260B	11/30/06	1
Bromomethane	BDL	5.0	ug/l	8260B	11/30/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	11/30/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
Chloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	11/30/06	1
Chloroform	BDL	5.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-01

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/30/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/30/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	11/30/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	11/30/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	11/30/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	11/30/06	1
2-Hexanone	BDL	50.	ug/l	8260B	11/30/06	1
Iodomethane	BDL	50.	ug/l	8260B	11/30/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/30/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/30/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	11/30/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	11/30/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
Naphthalene	BDL	5.0	ug/l	8260B	11/30/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	11/30/06	1
Propionitrile	BDL	50.	ug/l	8260B	11/30/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Styrene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-01

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	11/30/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/30/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/30/06	1
Surrogate Recovery						
Toluene-d8	85.3		% Rec.	8260B	11/30/06	1
Dibromofluoromethane	80.4		% Rec.	8260B	11/30/06	1
4-Bromofluorobenzene	95.4		% Rec.	8260B	11/30/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/29/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/29/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/28/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-01

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	57.5		% Rec.	8081/8082	11/28/06	1
Tetrachloro-m-xylene	47.5		% Rec.	8081/8082	11/28/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/29/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/29/06	1
Anthracene	BDL	10.	ug/l	8270C	11/29/06	1
Benzidine	BDL	50.	ug/l	8270C	11/29/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/29/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/29/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/29/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/29/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/29/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/29/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/29/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/29/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/29/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/29/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/29/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/29/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/29/06	1
Chrysene	BDL	10.	ug/l	8270C	11/29/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/29/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/29/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/29/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/29/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/29/06	1
Fluorene	BDL	10.	ug/l	8270C	11/29/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/29/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/29/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/29/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/29/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/29/06	1
Isophorone	BDL	10.	ug/l	8270C	11/29/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/29/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/29/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/29/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/29/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/29/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/29/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/29/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/29/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/29/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/29/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-01

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Pyrene	BDL	10.	ug/l	8270C	11/29/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/29/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/29/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/29/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/29/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/29/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/29/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
Phenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
Surrogate Recovery						
Nitrobenzene-d5	40.8		% Rec.	8270C	11/29/06	1
2-Fluorobiphenyl	59.1		% Rec.	8270C	11/29/06	1
p-Terphenyl-d14	102.		% Rec.	8270C	11/29/06	1
Phenol-d5	70.0		% Rec.	8270C	11/29/06	1
2-Fluorophenol	67.7		% Rec.	8270C	11/29/06	1
2,4,6-Tribromophenol	85.5		% Rec.	8270C	11/29/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/01/06 16:12 Printed: 12/01/06 16:22

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-02

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/22/06	1
Sulfate	7800	5000	ug/l	9056	11/22/06	1
Cyanide	2.6	2.0	ug/l	9012	11/27/06	1
Chromium,Hexavalent	BDL	100	ug/l	7196A	11/21/06	10
Sulfide	BDL	50.	ug/l	376.2	11/29/06	1
Arsenic	39.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	840	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	48.	10.	ug/l	6010B	11/28/06	1
Lead	71.	5.0	ug/l	6010B	11/28/06	1
Manganese	1000	10.	ug/l	6010B	11/28/06	1
Nickel	28.	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/30/06	1
Acrolein	BDL	50.	ug/l	8260B	11/30/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Allyl chloride	BDL	50.	ug/l	8260B	11/30/06	1
Benzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromoform	BDL	1.0	ug/l	8260B	11/30/06	1
Bromomethane	BDL	5.0	ug/l	8260B	11/30/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	11/30/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
Chloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	11/30/06	1
Chloroform	BDL	5.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-02

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/30/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/30/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	11/30/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethane	1.2	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	11/30/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	11/30/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	11/30/06	1
2-Hexanone	BDL	50.	ug/l	8260B	11/30/06	1
Iodomethane	BDL	50.	ug/l	8260B	11/30/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/30/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/30/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	11/30/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	11/30/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
Naphthalene	BDL	5.0	ug/l	8260B	11/30/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	11/30/06	1
Propionitrile	BDL	50.	ug/l	8260B	11/30/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Styrene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-02

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	11/30/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/30/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/30/06	1
Surrogate Recovery						
Toluene-d8	81.8		% Rec.	8260B	11/30/06	1
Dibromofluoromethane	82.6		% Rec.	8260B	11/30/06	1
4-Bromofluorobenzene	95.0		% Rec.	8260B	11/30/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/29/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/29/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/28/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-02

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	61.3		% Rec.	8081/8082	11/28/06	1
Tetrachloro-m-xylene	55.0		% Rec.	8081/8082	11/28/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/29/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/29/06	1
Anthracene	BDL	10.	ug/l	8270C	11/29/06	1
Benzidine	BDL	50.	ug/l	8270C	11/29/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/29/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/29/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/29/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/29/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/29/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/29/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/29/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/29/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/29/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/29/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/29/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/29/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/29/06	1
Chrysene	BDL	10.	ug/l	8270C	11/29/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/29/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/29/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/29/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/29/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/29/06	1
Fluorene	BDL	10.	ug/l	8270C	11/29/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/29/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/29/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/29/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/29/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/29/06	1
Isophorone	BDL	10.	ug/l	8270C	11/29/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/29/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/29/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/29/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/29/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/29/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/29/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/29/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/29/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/29/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/29/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-02

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/29/06	1
Pyrene	BDL	10.	ug/l	8270C	11/29/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/29/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/29/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/29/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/29/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/29/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/29/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
Phenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/29/06	1
Surrogate Recovery						
Nitrobenzene-d5	58.4		% Rec.	8270C	11/29/06	1
2-Fluorobiphenyl	78.9		% Rec.	8270C	11/29/06	1
p-Terphenyl-d14	101.		% Rec.	8270C	11/29/06	1
Phenol-d5	46.4		% Rec.	8270C	11/29/06	1
2-Fluorophenol	42.0		% Rec.	8270C	11/29/06	1
2,4,6-Tribromophenol	67.1		% Rec.	8270C	11/29/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-03

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/22/06	1
Sulfate	92000	5000	ug/l	9056	11/22/06	1
Cyanide	2.2	2.0	ug/l	9012	11/27/06	1
Chromium,Hexavalent	BDL	10.	ug/l	7196A	11/21/06	1
Sulfide	BDL	50.	ug/l	376.2	11/27/06	1
Arsenic	16.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	1300	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	26.	10.	ug/l	6010B	11/28/06	1
Lead	28.	5.0	ug/l	6010B	11/28/06	1
Manganese	1300	10.	ug/l	6010B	11/28/06	1
Nickel	BDL	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/30/06	1
Acrolein	BDL	50.	ug/l	8260B	11/30/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Allyl chloride	BDL	50.	ug/l	8260B	11/30/06	1
Benzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromoform	BDL	1.0	ug/l	8260B	11/30/06	1
Bromomethane	BDL	5.0	ug/l	8260B	11/30/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	11/30/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
Chloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	11/30/06	1
Chloroform	BDL	5.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-03

Site ID :

Project # :

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Sample ID : GW-8C

Collected By : Chris Eaton
Collection Date : 11/20/06 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/30/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/30/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	11/30/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethane	7.5	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,2-Dichloroethene	4.7	1.0	ug/l	8260B	11/30/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dioxane	120	100	ug/l	8260B	11/30/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	11/30/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	11/30/06	1
2-Hexanone	BDL	50.	ug/l	8260B	11/30/06	1
Iodomethane	BDL	50.	ug/l	8260B	11/30/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/30/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/30/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	11/30/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	11/30/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
Naphthalene	BDL	5.0	ug/l	8260B	11/30/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	11/30/06	1
Propionitrile	BDL	50.	ug/l	8260B	11/30/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Styrene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-03

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	11/30/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Vinyl chloride	5.1	1.0	ug/l	8260B	11/30/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/30/06	1
Surrogate Recovery						
Toluene-d8	80.8		% Rec.	8260B	11/30/06	1
Dibromofluoromethane	83.6		% Rec.	8260B	11/30/06	1
4-Bromofluorobenzene	97.5		% Rec.	8260B	11/30/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/25/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/25/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/25/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/25/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/25/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/26/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-03

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	20.6		% Rec.	8081/8082	11/25/06	1
Tetrachloro-m-xylene	55.7		% Rec.	8081/8082	11/25/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/28/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/28/06	1
Anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzidine	BDL	50.	ug/l	8270C	11/28/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/28/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
Chrysene	BDL	10.	ug/l	8270C	11/28/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Fluorene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/28/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Isophorone	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/28/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/28/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-03

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-8C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/28/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Surrogate Recovery						
Nitrobenzene-d5	54.2		% Rec.	8270C	11/28/06	1
2-Fluorobiphenyl	67.7		% Rec.	8270C	11/28/06	1
p-Terphenyl-d14	73.6		% Rec.	8270C	11/28/06	1
Phenol-d5	40.6		% Rec.	8270C	11/28/06	1
2-Fluorophenol	35.6		% Rec.	8270C	11/28/06	1
2,4,6-Tribromophenol	60.8		% Rec.	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-04

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-9A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	640	100	ug/l	9056	11/22/06	1
Sulfate	54000	5000	ug/l	9056	11/22/06	1
Cyanide	2.4	2.0	ug/l	9012	11/27/06	1
Chromium,Hexavalent	BDL	10.	ug/l	7196A	11/21/06	1
Sulfide	BDL	50.	ug/l	376.2	11/22/06	1
Arsenic	18.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	860	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	86.	10.	ug/l	6010B	11/28/06	1
Lead	75.	5.0	ug/l	6010B	11/28/06	1
Manganese	900	10.	ug/l	6010B	11/28/06	1
Nickel	57.	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-04

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-9A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-04

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-9A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	81.0		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	76.4		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	89.8		% Rec.	8260B	12/01/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/25/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/25/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/25/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/25/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/25/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/26/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-04

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-9A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	55.6		% Rec.	8081/8082	11/25/06	1
Tetrachloro-m-xylene	54.5		% Rec.	8081/8082	11/25/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/28/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/28/06	1
Anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzidine	BDL	50.	ug/l	8270C	11/28/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/28/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
Chrysene	BDL	10.	ug/l	8270C	11/28/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Fluorene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/28/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Isophorone	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/28/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/28/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-04

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-9A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/28/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Surrogate Recovery						
Nitrobenzene-d5	46.0		% Rec.	8270C	11/28/06	1
2-Fluorobiphenyl	56.2		% Rec.	8270C	11/28/06	1
p-Terphenyl-d14	78.6		% Rec.	8270C	11/28/06	1
Phenol-d5	42.6		% Rec.	8270C	11/28/06	1
2-Fluorophenol	42.7		% Rec.	8270C	11/28/06	1
2,4,6-Tribromophenol	59.3		% Rec.	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/01/06 16:12 Printed: 12/01/06 16:22

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-05

Site ID :

Project # :

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Sample ID : GW-9B

Collected By : Chris Eaton
Collection Date : 11/20/06 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/21/06	1
Sulfate	BDL	5000	ug/l	9056	11/21/06	1
Cyanide	2.2	2.0	ug/l	9012	11/27/06	1
Chromium,Hexavalent	BDL	10.	ug/l	7196A	11/21/06	1
Sulfide	BDL	50.	ug/l	376.2	11/22/06	1
Arsenic	25.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	420	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	BDL	10.	ug/l	6010B	11/28/06	1
Lead	5.0	5.0	ug/l	6010B	11/28/06	1
Manganese	370	10.	ug/l	6010B	11/28/06	1
Nickel	BDL	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-05

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-9B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	1.6	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-05

Site ID :

Project # :

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Sample ID : GW-9B

Collected By : Chris Eaton
Collection Date : 11/20/06 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	81.9		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	74.8		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	89.7		% Rec.	8260B	12/01/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/25/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/25/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/25/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/25/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/25/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/26/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-05

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-9B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	68.3		% Rec.	8081/8082	11/25/06	1
Tetrachloro-m-xylene	50.1		% Rec.	8081/8082	11/25/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/28/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/28/06	1
Anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzidine	BDL	50.	ug/l	8270C	11/28/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/28/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
Chrysene	BDL	10.	ug/l	8270C	11/28/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Fluorene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/28/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Isophorone	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/28/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/28/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-05

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-9B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/28/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Surrogate Recovery						
Nitrobenzene-d5	58.3		% Rec.	8270C	11/28/06	1
2-Fluorobiphenyl	67.7		% Rec.	8270C	11/28/06	1
p-Terphenyl-d14	86.0		% Rec.	8270C	11/28/06	1
Phenol-d5	52.8		% Rec.	8270C	11/28/06	1
2-Fluorophenol	51.7		% Rec.	8270C	11/28/06	1
2,4,6-Tribromophenol	63.7		% Rec.	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-06

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	990	100	ug/l	9056	11/22/06	1
Sulfate	110000	5000	ug/l	9056	11/22/06	1
Cyanide	2.0	2.0	ug/l	9012	11/27/06	1
Chromium,Hexavalent	BDL	10.	ug/l	7196A	11/21/06	1
Sulfide	BDL	50.	ug/l	376.2	11/27/06	1
Arsenic	12.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	450	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	55.	10.	ug/l	6010B	11/28/06	1
Lead	47.	5.0	ug/l	6010B	11/28/06	1
Manganese	620	10.	ug/l	6010B	11/28/06	1
Nickel	30.	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-06

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
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Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-06

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	84.3		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	70.1		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	89.1		% Rec.	8260B	12/01/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/29/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/29/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/28/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-06

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	58.8		% Rec.	8081/8082	11/28/06	1
Tetrachloro-m-xylene	61.3		% Rec.	8081/8082	11/28/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/28/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/28/06	1
Anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzidine	BDL	50.	ug/l	8270C	11/28/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/28/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
Chrysene	BDL	10.	ug/l	8270C	11/28/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Fluorene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/28/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Isophorone	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/28/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/28/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-06

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/28/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Surrogate Recovery						
Nitrobenzene-d5	66.6		% Rec.	8270C	11/28/06	1
2-Fluorobiphenyl	69.7		% Rec.	8270C	11/28/06	1
p-Terphenyl-d14	80.5		% Rec.	8270C	11/28/06	1
Phenol-d5	57.0		% Rec.	8270C	11/28/06	1
2-Fluorophenol	58.3		% Rec.	8270C	11/28/06	1
2,4,6-Tribromophenol	47.7		% Rec.	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/01/06 16:12 Printed: 12/01/06 16:22

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-07

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/22/06	1
Sulfate	BDL	5000	ug/l	9056	11/22/06	1
Cyanide	BDL	2.0	ug/l	9012	11/27/06	1
Chromium,Hexavalent	BDL	10.	ug/l	7196A	11/21/06	1
Sulfide	BDL	50.	ug/l	376.2	11/27/06	1
Arsenic	34.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	400	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	BDL	10.	ug/l	6010B	11/28/06	1
Lead	BDL	5.0	ug/l	6010B	11/28/06	1
Manganese	290	10.	ug/l	6010B	11/28/06	1
Nickel	BDL	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-07

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-07

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	83.0		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	73.5		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	88.9		% Rec.	8260B	12/01/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/29/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/29/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/28/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-07

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	70.0		% Rec.	8081/8082	11/28/06	1
Tetrachloro-m-xylene	62.5		% Rec.	8081/8082	11/28/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/28/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/28/06	1
Anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzidine	BDL	50.	ug/l	8270C	11/28/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/28/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
Chrysene	BDL	10.	ug/l	8270C	11/28/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Fluorene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/28/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Isophorone	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/28/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/28/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-07

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/28/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Surrogate Recovery						
Nitrobenzene-d5	47.9		% Rec.	8270C	11/28/06	1
2-Fluorobiphenyl	59.8		% Rec.	8270C	11/28/06	1
p-Terphenyl-d14	73.1		% Rec.	8270C	11/28/06	1
Phenol-d5	48.5		% Rec.	8270C	11/28/06	1
2-Fluorophenol	45.0		% Rec.	8270C	11/28/06	1
2,4,6-Tribromophenol	66.3		% Rec.	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/01/06 16:12 Printed: 12/01/06 16:23

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-08

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/21/06	1
Sulfate	93000	5000	ug/l	9056	11/21/06	1
Cyanide	BDL	5.0	ug/l	9012	11/28/06	1
Chromium,Hexavalent	BDL	10.	ug/l	7196A	11/21/06	1
Sulfide	BDL	50.	ug/l	376.2	11/27/06	1
Arsenic	12.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	740	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	BDL	10.	ug/l	6010B	11/28/06	1
Lead	5.6	5.0	ug/l	6010B	11/28/06	1
Manganese	2700	10.	ug/l	6010B	11/28/06	1
Nickel	BDL	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-08

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	210	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	2.5	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-08

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	3.5	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	82.4		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	69.8		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	89.8		% Rec.	8260B	12/01/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/29/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/29/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/28/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-08

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	66.3		% Rec.	8081/8082	11/28/06	1
Tetrachloro-m-xylene	52.5		% Rec.	8081/8082	11/28/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/28/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/28/06	1
Anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzidine	BDL	50.	ug/l	8270C	11/28/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/28/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
Chrysene	BDL	10.	ug/l	8270C	11/28/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Fluorene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/28/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Isophorone	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/28/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/28/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-08

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-10C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 15:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/28/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Surrogate Recovery						
Nitrobenzene-d5	53.6		% Rec.	8270C	11/28/06	1
2-Fluorobiphenyl	59.7		% Rec.	8270C	11/28/06	1
p-Terphenyl-d14	66.4		% Rec.	8270C	11/28/06	1
Phenol-d5	37.6		% Rec.	8270C	11/28/06	1
2-Fluorophenol	35.2		% Rec.	8270C	11/28/06	1
2,4,6-Tribromophenol	58.3		% Rec.	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/01/06 16:12 Printed: 12/01/06 16:23

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-09

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-11C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 17:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/21/06	1
Sulfate	7400	5000	ug/l	9056	11/21/06	1
Cyanide	BDL	5.0	ug/l	9012	11/28/06	1
Chromium,Hexavalent	13.	10.	ug/l	7196A	11/21/06	1
Sulfide	BDL	50.	ug/l	376.2	11/27/06	1
Arsenic	48.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	950	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	45.	10.	ug/l	6010B	11/28/06	1
Lead	44.	5.0	ug/l	6010B	11/28/06	1
Manganese	2400	10.	ug/l	6010B	11/28/06	1
Nickel	82.	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/30/06	1
Acrolein	BDL	50.	ug/l	8260B	11/30/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Allyl chloride	BDL	50.	ug/l	8260B	11/30/06	1
Benzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromoform	BDL	1.0	ug/l	8260B	11/30/06	1
Bromomethane	BDL	5.0	ug/l	8260B	11/30/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	11/30/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
Chloroethane	7.2	1.0	ug/l	8260B	11/30/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	11/30/06	1
Chloroform	BDL	5.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-09

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-11C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 17:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/30/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/30/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	11/30/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethane	21.	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethene	1.4	1.0	ug/l	8260B	11/30/06	1
cis-1,2-Dichloroethene	56.	1.0	ug/l	8260B	11/30/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dioxane	1900	100	ug/l	8260B	11/30/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	11/30/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	11/30/06	1
2-Hexanone	BDL	50.	ug/l	8260B	11/30/06	1
Iodomethane	BDL	50.	ug/l	8260B	11/30/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/30/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/30/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	11/30/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	11/30/06	1
Methyl tert-butyl ether	15.	1.0	ug/l	8260B	11/30/06	1
Naphthalene	BDL	5.0	ug/l	8260B	11/30/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	11/30/06	1
Propionitrile	BDL	50.	ug/l	8260B	11/30/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Styrene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-09

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-11C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 17:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	11/30/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Vinyl chloride	32.	1.0	ug/l	8260B	11/30/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/30/06	1
Surrogate Recovery						
Toluene-d8	94.1		% Rec.	8260B	11/30/06	1
Dibromofluoromethane	110.		% Rec.	8260B	11/30/06	1
4-Bromofluorobenzene	93.1		% Rec.	8260B	11/30/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/29/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/29/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/28/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-09

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-11C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 17:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	52.5		% Rec.	8081/8082	11/28/06	1
Tetrachloro-m-xylene	33.8		% Rec.	8081/8082	11/28/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/28/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/28/06	1
Anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzidine	BDL	50.	ug/l	8270C	11/28/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/28/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
Chrysene	BDL	10.	ug/l	8270C	11/28/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Fluorene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/28/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Isophorone	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/28/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/28/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-09

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-11C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 17:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/28/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Surrogate Recovery						
Nitrobenzene-d5	55.1		% Rec.	8270C	11/28/06	1
2-Fluorobiphenyl	62.7		% Rec.	8270C	11/28/06	1
p-Terphenyl-d14	68.7		% Rec.	8270C	11/28/06	1
Phenol-d5	53.2		% Rec.	8270C	11/28/06	1
2-Fluorophenol	46.7		% Rec.	8270C	11/28/06	1
2,4,6-Tribromophenol	68.6		% Rec.	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-10

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : DUP

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/21/06	1
Sulfate	BDL	5000	ug/l	9056	11/21/06	1
Cyanide	BDL	5.0	ug/l	9012	11/28/06	1
Chromium,Hexavalent	BDL	10.	ug/l	7196A	11/21/06	1
Sulfide	BDL	50.	ug/l	376.2	11/22/06	1
Arsenic	32.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	400	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	BDL	10.	ug/l	6010B	11/28/06	1
Lead	BDL	5.0	ug/l	6010B	11/28/06	1
Manganese	290	10.	ug/l	6010B	11/28/06	1
Nickel	BDL	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/30/06	1
Acrolein	BDL	50.	ug/l	8260B	11/30/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Allyl chloride	BDL	50.	ug/l	8260B	11/30/06	1
Benzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromoform	BDL	1.0	ug/l	8260B	11/30/06	1
Bromomethane	BDL	5.0	ug/l	8260B	11/30/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	11/30/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
Chloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	11/30/06	1
Chloroform	BDL	5.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-10

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : DUP

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/30/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/30/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	11/30/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	11/30/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	11/30/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	11/30/06	1
2-Hexanone	BDL	50.	ug/l	8260B	11/30/06	1
Iodomethane	BDL	50.	ug/l	8260B	11/30/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/30/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/30/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	11/30/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	11/30/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
Naphthalene	BDL	5.0	ug/l	8260B	11/30/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	11/30/06	1
Propionitrile	BDL	50.	ug/l	8260B	11/30/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Styrene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-10

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : DUP

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	5.0	ug/l	8260B	11/30/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/30/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/30/06	1
Surrogate Recovery						
Toluene-d8	94.0		% Rec.	8260B	11/30/06	1
Dibromofluoromethane	119.		% Rec.	8260B	11/30/06	1
4-Bromofluorobenzene	91.8		% Rec.	8260B	11/30/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/25/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/25/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/25/06	1
Endrin ketone	BDL	0.50	ug/l	8081/8082	11/25/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/25/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/25/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/25/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/26/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/26/06	1
Pest/PCBs Surrogates						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-10

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : DUP

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Decachlorobiphenyl	68.7		% Rec.	8081/8082	11/25/06	1
Tetrachloro-m-xylene	70.4		% Rec.	8081/8082	11/25/06	1
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/28/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/28/06	1
Anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzidine	BDL	50.	ug/l	8270C	11/28/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Benzoic acid	BDL	10.	ug/l	8270C	11/28/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
Chrysene	BDL	10.	ug/l	8270C	11/28/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Fluorene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/28/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Isophorone	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/28/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/28/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-10

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : DUP

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/28/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Phenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,5-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Surrogate Recovery						
Nitrobenzene-d5	48.9		% Rec.	8270C	11/28/06	1
2-Fluorobiphenyl	58.8		% Rec.	8270C	11/28/06	1
p-Terphenyl-d14	73.8		% Rec.	8270C	11/28/06	1
Phenol-d5	39.7		% Rec.	8270C	11/28/06	1
2-Fluorophenol	28.7		% Rec.	8270C	11/28/06	1
2,4,6-Tribromophenol	35.5		% Rec.	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/01/06 16:12 Printed: 12/01/06 16:23

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-11

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-12A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/21/06	1
Sulfate	88000	5000	ug/l	9056	11/21/06	1
Arsenic	22.	1.0	ug/l	6020	11/27/06	1
Mercury	0.30	0.20	ug/l	7470A	11/28/06	1
Barium	1600	5.0	ug/l	6010B	11/28/06	1
Cadmium	9.4	5.0	ug/l	6010B	11/28/06	1
Chromium	210	10.	ug/l	6010B	11/28/06	1
Iron	160000	100	ug/l	6010B	11/28/06	1
Lead	170	5.0	ug/l	6010B	11/28/06	1
Manganese	11000	10.	ug/l	6010B	11/28/06	1
Nickel	230	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/30/06	1
Acrolein	BDL	50.	ug/l	8260B	11/30/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Allyl chloride	BDL	50.	ug/l	8260B	11/30/06	1
Benzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromoform	BDL	1.0	ug/l	8260B	11/30/06	1
Bromomethane	BDL	5.0	ug/l	8260B	11/30/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	11/30/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
Chloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	11/30/06	1
Chloroform	BDL	5.0	ug/l	8260B	11/30/06	1
Chloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/30/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-11

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-12A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	11/30/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,2-Dichloroethene	5.3	1.0	ug/l	8260B	11/30/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	11/30/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	11/30/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	11/30/06	1
2-Hexanone	BDL	50.	ug/l	8260B	11/30/06	1
Iodomethane	BDL	50.	ug/l	8260B	11/30/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/30/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/30/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	11/30/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	11/30/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
Naphthalene	BDL	5.0	ug/l	8260B	11/30/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	11/30/06	1
Propionitrile	BDL	50.	ug/l	8260B	11/30/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Styrene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Toluene	BDL	5.0	ug/l	8260B	11/30/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-11

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-12A

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/30/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/30/06	1
Surrogate Recovery						
Toluene-d8	96.2		% Rec.	8260B	11/30/06	1
Dibromofluoromethane	119.		% Rec.	8260B	11/30/06	1
4-Bromofluorobenzene	88.2		% Rec.	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-12

Site ID :

Project # :

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Sample ID : GW-12B

Collected By : Chris Eaton
Collection Date : 11/20/06 10:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/21/06	1
Sulfate	BDL	5000	ug/l	9056	11/21/06	1
Arsenic	35.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	500	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	64.	10.	ug/l	6010B	11/28/06	1
Iron	41000	100	ug/l	6010B	11/28/06	1
Lead	57.	5.0	ug/l	6010B	11/28/06	1
Manganese	880	10.	ug/l	6010B	11/28/06	1
Nickel	39.	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/30/06	1
Acrolein	BDL	50.	ug/l	8260B	11/30/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Allyl chloride	BDL	50.	ug/l	8260B	11/30/06	1
Benzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromoform	BDL	1.0	ug/l	8260B	11/30/06	1
Bromomethane	BDL	5.0	ug/l	8260B	11/30/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	11/30/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
Chloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	11/30/06	1
Chloroform	BDL	5.0	ug/l	8260B	11/30/06	1
Chloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/30/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-12

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-12B

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 10:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	11/30/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	11/30/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	11/30/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	11/30/06	1
2-Hexanone	BDL	50.	ug/l	8260B	11/30/06	1
Iodomethane	BDL	50.	ug/l	8260B	11/30/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/30/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/30/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	11/30/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	11/30/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
Naphthalene	BDL	5.0	ug/l	8260B	11/30/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	11/30/06	1
Propionitrile	BDL	50.	ug/l	8260B	11/30/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Styrene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Toluene	BDL	5.0	ug/l	8260B	11/30/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-12

Site ID :

Project # :

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Sample ID : GW-12B

Collected By : Chris Eaton
Collection Date : 11/20/06 10:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/30/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/30/06	1
Surrogate Recovery						
Toluene-d8	97.0		% Rec.	8260B	11/30/06	1
Dibromofluoromethane	123.		% Rec.	8260B	11/30/06	1
4-Bromofluorobenzene	89.2		% Rec.	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-13

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-12C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/21/06	1
Sulfate	62000	5000	ug/l	9056	11/21/06	1
Arsenic	10.	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	1000	5.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	30.	10.	ug/l	6010B	11/28/06	1
Iron	28000	100	ug/l	6010B	11/28/06	1
Lead	28.	5.0	ug/l	6010B	11/28/06	1
Manganese	2000	10.	ug/l	6010B	11/28/06	1
Nickel	BDL	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/30/06	1
Acrolein	BDL	50.	ug/l	8260B	11/30/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Allyl chloride	BDL	50.	ug/l	8260B	11/30/06	1
Benzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromoform	BDL	1.0	ug/l	8260B	11/30/06	1
Bromomethane	BDL	5.0	ug/l	8260B	11/30/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	11/30/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
Chloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	11/30/06	1
Chloroform	BDL	5.0	ug/l	8260B	11/30/06	1
Chloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/30/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-13

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-12C

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	11/30/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	11/30/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	11/30/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	11/30/06	1
2-Hexanone	BDL	50.	ug/l	8260B	11/30/06	1
Iodomethane	BDL	50.	ug/l	8260B	11/30/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/30/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/30/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	11/30/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	11/30/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
Naphthalene	BDL	5.0	ug/l	8260B	11/30/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	11/30/06	1
Propionitrile	BDL	50.	ug/l	8260B	11/30/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Styrene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Toluene	BDL	5.0	ug/l	8260B	11/30/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-13

Site ID :

Project # :

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Sample ID : GW-12C

Collected By : Chris Eaton
Collection Date : 11/20/06 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/30/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/30/06	1
Surrogate Recovery						
Toluene-d8	94.7		% Rec.	8260B	11/30/06	1
Dibromofluoromethane	120.		% Rec.	8260B	11/30/06	1
4-Bromofluorobenzene	86.0		% Rec.	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-14

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : TRIP BLANK

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/30/06	1
Acrolein	BDL	50.	ug/l	8260B	11/30/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Allyl chloride	BDL	50.	ug/l	8260B	11/30/06	1
Benzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
Bromoform	BDL	1.0	ug/l	8260B	11/30/06	1
Bromomethane	BDL	5.0	ug/l	8260B	11/30/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	11/30/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	11/30/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
Chloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	11/30/06	1
Chloroform	BDL	5.0	ug/l	8260B	11/30/06	1
Chloromethane	BDL	1.0	ug/l	8260B	11/30/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/30/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/30/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	11/30/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 01,2006

ESC Sample # : L269960-14

Date Received : November 21, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : TRIP BLANK

Project # :

Collected By : Chris Eaton
Collection Date : 11/20/06 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	11/30/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	11/30/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	11/30/06	1
2-Hexanone	BDL	50.	ug/l	8260B	11/30/06	1
Iodomethane	BDL	50.	ug/l	8260B	11/30/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/30/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	11/30/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/30/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	11/30/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	11/30/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/30/06	1
Naphthalene	BDL	5.0	ug/l	8260B	11/30/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	11/30/06	1
Propionitrile	BDL	50.	ug/l	8260B	11/30/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Styrene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Toluene	BDL	5.0	ug/l	8260B	11/30/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/30/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/30/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/30/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/30/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/30/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/30/06	1
Surrogate Recovery						
Toluene-d8	95.0		% Rec.	8260B	11/30/06	1
Dibromofluoromethane	109.		% Rec.	8260B	11/30/06	1
4-Bromofluorobenzene	96.5		% Rec.	8260B	11/30/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L269960-01	Nitrate	J3
	Benzidine	J4J3
	Benzoic acid	J3
	3-Nitroaniline	J3
	4-Nitroaniline	J3J4
	4,6-Dinitro-2-methylphenol	J3
	2,4-Dinitrophenol	J3
	2-Nitrophenol	J3
	4-Nitrophenol	J3
	Pentachlorophenol	J3J4
	2,4,5-Trichlorophenol	J3
	2,4,6-Trichlorophenol	J3
	Acetone	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3
	1,1,2-Trichloroethane	J3
L269960-02	Chromium,Hexavalent	O
	Benzidine	J6J3J4
	Benzoic acid	J3
	3-Nitroaniline	J3
	4-Nitroaniline	J6J3J4
	2-Methylphenol	J3
	3&4-methyl phenol	J3
	2,4-Dimethylphenol	J6J3
	4,6-Dinitro-2-methylphenol	J3
	2,4-Dinitrophenol	J3
	2-Nitrophenol	J3
	4-Nitrophenol	J3
	Pentachlorophenol	J3J4
	2,4,5-Trichlorophenol	J3
	2,4,6-Trichlorophenol	J3
	Acetone	J3
	Acrolein	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4J5
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3
	1,1,2-Trichloroethane	J3
	Sulfide	K
	Silver	J6
L269960-03	Benzo(b)fluoranthene	J3
	Benzoic acid	J3
	2-Chloronaphthalene	J4
	Hexachlorocyclopentadiene	J3
	Endrin	J3
	Endrin aldehyde	J3
	Decachlorobiphenyl	J2
	Acetone	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	1,1,2-Trichloroethane	J3
L269960-04	Benzo(b)fluoranthene	J3
	Benzoic acid	J3
	2-Chloronaphthalene	J4
	Hexachlorocyclopentadiene	J3
	Endrin	J3
	Endrin aldehyde	J3
	Acetone	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3
	1,1,2-Trichloroethane	J3
L269960-05	Benzo(b)fluoranthene	J3
	Benzoic acid	J3
	2-Chloronaphthalene	J4
	Hexachlorocyclopentadiene	J3
	Endrin	J3
	Endrin aldehyde	J3
	Tetrachloro-m-xylene	J2
	Acetone	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3
	1,1,2-Trichloroethane	J3
L269960-06	Benzo(b)fluoranthene	J3
	Benzoic acid	J3
	2-Chloronaphthalene	J4
	Hexachlorocyclopentadiene	J3
	Acetone	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3
	1,1,2-Trichloroethane	J3
L269960-07	Benzo(b)fluoranthene	J3
	Benzoic acid	J3
	2-Chloronaphthalene	J4
	Hexachlorocyclopentadiene	J3
	Acetone	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3
	1,1,2-Trichloroethane	J3
L269960-08	Benzo(b)fluoranthene	J3
	Benzoic acid	J3
	2-Chloronaphthalene	J4
	Hexachlorocyclopentadiene	J3

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Acetone	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3
	1,1,2-Trichloroethane	J3
L269960-09	Benzo(b)fluoranthene	J3
	Benzoic acid	J3
	2-Chloronaphthalene	J4
	Hexachlorocyclopentadiene	J3
	Tetrachloro-m-xylene	J2
	Acetone	J3
	2-Chloroethyl vinyl ether	J4
	Chloromethane	J4
	trans-1,4-Dichloro-2-butene	J4
	2-Hexanone	J3
	Vinyl chloride	J4
L269960-10	Chromium,Hexavalent	T8
	Benzo(b)fluoranthene	J3
	Benzoic acid	J3
	2-Chloronaphthalene	J4
	Hexachlorocyclopentadiene	J3
	Endrin	J3
	Endrin aldehyde	J3
	Acetone	J3
	2-Chloroethyl vinyl ether	J4
	Chloromethane	J4
	trans-1,4-Dichloro-2-butene	J4
	2-Hexanone	J3
	Vinyl chloride	J4
L269960-11	Acetone	J3
	2-Chloroethyl vinyl ether	J4
	Chloromethane	J4
	trans-1,4-Dichloro-2-butene	J4
	2-Hexanone	J3
	Vinyl chloride	J4
L269960-12	Acetone	J3
	2-Chloroethyl vinyl ether	J4
	Chloromethane	J4
	trans-1,4-Dichloro-2-butene	J4
	2-Hexanone	J3
	Vinyl chloride	J4
L269960-13	Acetone	J3
	2-Chloroethyl vinyl ether	J4
	Chloromethane	J4
	trans-1,4-Dichloro-2-butene	J4
	2-Hexanone	J3
	Vinyl chloride	J4
L269960-14	Acetone	J3
	2-Chloroethyl vinyl ether	J4
	Chloromethane	J4
	trans-1,4-Dichloro-2-butene	J4
	2-Hexanone	J3
	Vinyl chloride	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
K	REX(EPA)- Re-prepared: The indicated analytical results were generated from a re-extraction or preparation of the sample.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Deffenbaugh Industries

18181 W. 53rd
Shawnee,KS 66203

Alternate billing information:

Cha[illegible]stody
Page ___ of ___

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: **Mr. Mick Cossairt**

Email: **engr05@mail.planetkc.com**

Project Description: **ISC-KC Post Closure**

City/State Collected

Phone: **(913) 631-3300**
FAX: **(913) 631-6193**

Client Project #:

Lab Project #: **DEFFIND-ISCKC**

Collected by (print): Chris Eaton

Site/Facility ID#:

P.O.#:

Collected by (signature): [signature]

Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day. 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: **DEFFIND** (lab use only)
Template/Prelogin: **T40183/ P193295**
Cooler #: 11-15 MB
Shipped Via: **FedEX Ground**

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	CN 250mlHDPEAmb-NaOH	CR6 250mlHDPE-NoPres	Metals 500mlHDPE-HNO3	SULFIDE 500mlHDPE-NaOH+ZnAc	SV8081/8082 1L-Amb-NoPres	SV8270 1L-Amb-NoPres	V8260AP9 40mlAmb-HCl	V8260AP9 40mlAmb-HCl-Blk	Remarks/Contaminant	Sample # (lab only)
GW-8A		GW	—	11/20/06	1515	9	X	X	X	X	X	X	X			L269960-01
GW-8B		GW	—	11/20/06	1500	9	X	X	X	X	X	X	X			02
GW-8C		GW	—	11/20/06	1420	9	X	X	X	X	X	X	X			03
GW-9A		GW	—	11/20/06	1400	9	X	X	X	X	X	X	X			04
GW-9B		GW		11/20/06	1350	9	X	X	X	X	X	X	X			05
GW-10A		GW		11/20/06	1610	9	X	X	X	X	X	X	X			06
GW-10B		GW		11/20/06	1600	9	X	X	X	X	X	X	X			07
GW-10C		GW		11/20/06	1545	9	X	X	X	X	X	X	X			08
GW-11C		GW		11/20/06	1700	9	X	X	X	X	X	X	X			09

*Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☒ hand	Condition: (lab use only)
[signature]	11/20/06	1710	[signature]		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2-8° Bottles Received: 3	12B+6TB OK
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11.21.06 Time: 0400	pH Checked: <2, >12 NCF:

Deffenbaugh Industries

18181 W. 53rd
Shawnee,KS 66203

Alternate billing information:

Cha[illegible]stody
Page ___ of ___

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: **Mr. Mick Cossairt**

Email: **engr05@mail.planetkc.com**

Project Description: **ISC-KC Post Closure**

City/State Collected

Phone: **(913) 631-3300**
FAX: **(913) 631-6193**

Client Project #:

Lab Project # **DEFFIND-ISCKC**

Collected by (print): Chris Eaton

Site/Facility ID#:

P.O.#:

Collected by (signature): [signature]

Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day. 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? __No X Yes
FAX? __No __Yes

(lab use only)
Acctnum: **DEFFIND**
Template/Prelogin: **T40183 P193295**
Cooler #: 11-15 MB
Shipped Via: **FedEX Ground**

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	CN 250mlHDPEAmb-NaOH	CR6 250mlHDPE-NoPres	Metals 500mlHDPE-HNO3	SULFIDE 500mlHDPE-NaOH+ZnAc	SV8081/8082 1L-Amb NoPres	SV8270 1L-Amb-NoPres	V8260AP9 40mlAmb-HCl	V8260AP9 40mlAmb-HCl-Blk	Remarks/Contaminant	Sample # (lab only)
GW-		GW				9	X	X	X	X	X	X	X			L26946 0-10
GW-		GW				9	X	X	X	X	X	X	X			11
DUP		GW	—	11/20/06	—	~~8~~ 9	X	X	X	X	X	X	X			-10 12
MATRIX SPIKE (GW-8A)		GW	—	11/20/06	1500	9	X	X	X	X	X	X	X			12
MATRIX SPIKE DUP (GW8B)		GW	—	11/20/06	1500	~~8~~ 9	X	X	X	X	X	X	X			
RINSE		GW	✓			2							X			
EO		GW				2							X			
TRIP BLANK		GW				1								X		-14 ~~11~~ 10
TRIP BLANK		GW				1								X		

*Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier	Condition: (lab use only)
[signature]	11/20/06	1710	[signature]		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2-8° Bottles Received:	24 + 6TB
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11.21.06 Time: 0900	pH Checked: <2, >12 NCF:

Deffenbaugh Industries

18181 W. 53rd
Shawnee,KS 66203

Alternate billing information:

Cha[illegible]stody
Page ___ of ___

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Mick Cossairt
Email: engr05@mail.planetkc.com
Project Description: ISC-KC Post Closure
City/State Collected
Phone: (913) 631-3300
FAX: (913) 631-6193
Client Project #:
Lab Project #: DEFFIND-ISCKC
Collected by (print): Chris Eaton
Site/Facility ID#:
P.O.#:
Collected by (signature): Chris Eaton
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: DEFFIND (lab use only)
Template/Prelogin: T16629 P193303
Cooler #:
Shipped Via: FedEx Ground

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Metals 500ml HDPE-HNO3 + Ferr/Mn	V8260AP9 40ml Amb-HCl	V8260AP9 40ml Amb-HCl-Blk	250ml HDPE - Sulfate/Nitrate				Remarks/Contaminant	Sample # (lab only)
GW-11A		GW				4	X	X		X					
GW-11B		GW				3	X	X							
GW-12A		GW	—	11/20/06	0930	3	X	X							11
GW-12B		GW	—	11/20/06	1000	3	X	X							12
GW-12C		GW	—	11/20/06	~~0930~~ 1015	3	X	X							13
~~RINSE~~		~~GW~~		~~11/20/06~~	~~1400~~	3	~~X~~	~~X~~							
EO		GW				3	X	X							
~~MATRIX SPIKE (GW-8B)~~		~~GW~~		~~11/20/06~~	~~1500~~	3	X	X						CHE IGNORE	
~~MATRIX SPIKE DUP (GW-8B)~~		~~GW~~		~~11/20/06~~	~~1500~~	3	X	X							

*Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: PLEASE NOTE ON COFC WHICH WELL WAS THE MS/MSD SITE.

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☒ Hand	Condition: (lab use only)
Chris Eaton	11/20/06	1710	Hugh L. Rich		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.8° Bottles Received: 3	12B + 6TB OK
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11.21.06 Time: 0900	pH Checked: NCF:

ENVIRONMENTAL SCIENCE CORP.

Cooler Receipt Form

Client: DEFFIND

Cooler Received On: 11.21.06 and Opened On: 11.21.06 By: JASON DEATHRIDGE

(Signature)

1. Temperature of cooler when opened: 2.8 Degrees Celsius
2. Were custody seals on outside of cooler and intact? YES NO
   a. If yes, what kind and where: _____
   b. Were the signature and date correct? YES NO
3. Were custody seals on containers intact? N/A YES NO
4. Were custody papers inside cooler? YES NO
5. Were custody papers properly filled out (ink, signed, etc.) YES NO
6. Did you sign the custody papers in the appropriate place? YES NO
7. What kind of packing material was used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)? YES NO
9. Did all bottles arrive in good condition? YES NO
10. Were all bottle labels complete? (#, date, signed, pres, etc)? YES NO
11. Did all bottle labels and tags agree with custody papers? YES NO
12. Were correct bottles used for the analyses requested? YES NO
13. If applicable, was an observable VOA headspace present? YES NO
14. Was sufficient amount of sample sent in each bottle? YES NO
15. Were correct preservatives used? YES NO
16. Corrective action taken, if necessary: NCF
    a. Name of person contacted: See attached for resolution if needed
    b. Date: _____

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No. : L269967

Date: 11-21-06

Evaluated by: Jason D.

Client: DEFFIND

Non-Conformance (check applicable items)

_____	Chain of Custody is missing	X	Login Clarification Needed
_____	Improper container type	_____	Improper preservation
_____	Chain of custody is incomplete	_____	Container lid not in tact
_____	Parameter(s) past holding time	_____	Improper temperature
_____	Broken container(s) **see below**	_____	Broken container: sufficient sample volume remains for analysis requested

_____ Insufficient packing material around container

_____ Insufficient packing material inside cooler

_____ Improper handling by carrier (FedEx / UPS / Courier)

_____ Sample was frozen

Comments: Recieved containers for Sulfate/Nitrate for each sample, but CoC only has it marked on last page. Confirm analysis

Login Instructions: **TSR Initials:** TM

Client informed by call / email / fax / voice mail date: _____ time: _____

Client contact: N/A

1) Run Nitrate/Sulfate on all samples.

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd

Shawnee, KS 66203

Report Summary

Wednesday December 06, 2006

Report Number: L270246
Samples Received: 11/22/06
Client Project: QAS

Description: ISC-KC Post Closure

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Reviewed By: Tom Mellette, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, WA - C1915

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-01

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : EPA-R-1

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 11:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/23/06	1
Sulfate	BDL	5000	ug/l	9056	11/23/06	1
Arsenic	230	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	550	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	BDL	10.	ug/l	6010B	11/27/06	1
Iron	29000	100	ug/l	6010B	11/27/06	1
Lead	27.	5.0	ug/l	6010B	11/27/06	1
Manganese	12000	10.	ug/l	6010B	11/27/06	1
Nickel	BDL	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/04/06	1
Acrolein	BDL	50.	ug/l	8260B	12/04/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/04/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/04/06	1
Benzene	42.	1.0	ug/l	8260B	12/04/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/04/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/04/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/04/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/04/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/04/06	1
n-Butylbenzene	16.	1.0	ug/l	8260B	12/04/06	1
sec-Butylbenzene	2.8	1.0	ug/l	8260B	12/04/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/04/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/04/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/04/06	1
Chlorobenzene	5.7	1.0	ug/l	8260B	12/04/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/04/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/04/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/04/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/04/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/04/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/04/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/04/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/04/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-01

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : EPA-R-1

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 11:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,2-Dichlorobenzene	5.6	1.0	ug/l	8260B	12/04/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
1,4-Dichlorobenzene	1.1	1.0	ug/l	8260B	12/04/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/04/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,1-Dichloroethane	10.	1.0	ug/l	8260B	12/04/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/04/06	1
cis-1,2-Dichloroethene	7.2	1.0	ug/l	8260B	12/04/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/04/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/04/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/04/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/04/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/04/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/04/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/04/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/04/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/04/06	1
Ethylbenzene	47.	1.0	ug/l	8260B	12/04/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/04/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/04/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/04/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/04/06	1
Isopropylbenzene	5.6	1.0	ug/l	8260B	12/04/06	1
p-Isopropyltoluene	4.0	1.0	ug/l	8260B	12/04/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/04/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/04/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/04/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/04/06	1
Methyl tert-butyl ether	5.9	1.0	ug/l	8260B	12/04/06	1
Naphthalene	130	5.0	ug/l	8260B	12/04/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/04/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/04/06	1
n-Propylbenzene	9.4	1.0	ug/l	8260B	12/04/06	1
Styrene	BDL	1.0	ug/l	8260B	12/04/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
Tetrachloroethene	3.1	1.0	ug/l	8260B	12/04/06	1
Toluene	140	5.0	ug/l	8260B	12/04/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
1,1,1-Trichloroethane	16.	1.0	ug/l	8260B	12/04/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/04/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Mt. Juliet, TN 37122
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Fax (615) 758-5859

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-01

Date Received : November 22, 2006
Description : ISC-KC Post CIosure

Site ID :

Sample ID : EPA-R-1

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 11:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	1.3	1.0	ug/l	8260B	12/04/06	1
Trichlorofluoromethane	7.0	1.0	ug/l	8260B	12/04/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/04/06	1
1,2,4-Trimethylbenzene	130	1.0	ug/l	8260B	12/04/06	1
1,3,5-Trimethylbenzene	38.	1.0	ug/l	8260B	12/04/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/04/06	1
Xylenes, Total	630	15.	ug/l	8260B	12/04/06	5
Surrogate Recovery						
Toluene-d8	90.6		% Rec.	8260B	12/04/06	1
Dibromofluoromethane	92.3		% Rec.	8260B	12/04/06	1
4-Bromofluorobenzene	123.		% Rec.	8260B	12/04/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:45

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Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-02

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : EPA-R-3

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/23/06	1
Sulfate	170000	5000	ug/l	9056	11/23/06	1
Arsenic	1.1	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	220	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	BDL	10.	ug/l	6010B	11/27/06	1
Iron	320	100	ug/l	6010B	11/27/06	1
Lead	BDL	5.0	ug/l	6010B	11/27/06	1
Manganese	210	10.	ug/l	6010B	11/27/06	1
Nickel	BDL	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-02

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : EPA-R-3

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-02

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : EPA-R-3

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	81.4		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	73.4		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	87.6		% Rec.	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-03

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-1

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/28/06	1
Sulfate	160000	5000	ug/l	9056	11/23/06	1
Arsenic	13.	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	130	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	BDL	10.	ug/l	6010B	11/27/06	1
Iron	2200	100	ug/l	6010B	11/27/06	1
Lead	8.9	5.0	ug/l	6010B	11/27/06	1
Manganese	130	10.	ug/l	6010B	11/27/06	1
Nickel	BDL	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-03

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-1

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-03

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-1

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	80.5		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	74.0		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	92.1		% Rec.	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:45

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-04

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-2R

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	750	100	ug/l	9056	11/23/06	1
Sulfate	BDL	5000	ug/l	9056	11/23/06	1
Arsenic	21.	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	530	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	BDL	10.	ug/l	6010B	11/27/06	1
Iron	24000	100	ug/l	6010B	11/27/06	1
Lead	13.	5.0	ug/l	6010B	11/27/06	1
Manganese	4200	10.	ug/l	6010B	11/27/06	1
Nickel	110	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/04/06	1
Acrolein	BDL	50.	ug/l	8260B	12/04/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/04/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/04/06	1
Benzene	BDL	1.0	ug/l	8260B	12/04/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/04/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/04/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/04/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/04/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/04/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/04/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/04/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/04/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/04/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/04/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/04/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/04/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/04/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/04/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/04/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/04/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/04/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/04/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-04

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-2R

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/04/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/04/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/04/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/04/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/04/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/04/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/04/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/04/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/04/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/04/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/04/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/04/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/04/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/04/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/04/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/04/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/04/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/04/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/04/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/04/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/04/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/04/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/04/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/04/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/04/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/04/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/04/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/04/06	1
Styrene	BDL	1.0	ug/l	8260B	12/04/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/04/06	1
Toluene	BDL	5.0	ug/l	8260B	12/04/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/04/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/04/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-04

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-2R

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	12/04/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/04/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/04/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/04/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/04/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/04/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/04/06	1
Surrogate Recovery						
Toluene-d8	96.3		% Rec.	8260B	12/04/06	1
Dibromofluoromethane	106.		% Rec.	8260B	12/04/06	1
4-Bromofluorobenzene	114.		% Rec.	8260B	12/04/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:45

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-05

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-3

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/23/06	1
Sulfate	BDL	5000	ug/l	9056	11/23/06	1
Arsenic	270	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	360	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	BDL	10.	ug/l	6010B	11/27/06	1
Iron	23000	100	ug/l	6010B	11/27/06	1
Lead	9.1	5.0	ug/l	6010B	11/27/06	1
Manganese	1600	10.	ug/l	6010B	11/27/06	1
Nickel	150	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	270	50.	ug/l	8260B	12/05/06	1
Acrolein	BDL	50.	ug/l	8260B	12/05/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/05/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/05/06	1
Benzene	110	1.0	ug/l	8260B	12/05/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/05/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/05/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/05/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/05/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/05/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/05/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/05/06	1
sec-Butylbenzene	1.2	1.0	ug/l	8260B	12/05/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/05/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/05/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/05/06	1
Chlorobenzene	2.6	1.0	ug/l	8260B	12/05/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/05/06	1
Chloroethane	16.	1.0	ug/l	8260B	12/05/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/05/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/05/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/05/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/05/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/05/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/05/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/05/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-05

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-3

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/05/06	1
1,2-Dichlorobenzene	5.3	1.0	ug/l	8260B	12/05/06	1
1,3-Dichlorobenzene	3.0	1.0	ug/l	8260B	12/05/06	1
1,4-Dichlorobenzene	19.	1.0	ug/l	8260B	12/05/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/05/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/05/06	1
1,1-Dichloroethane	1.2	1.0	ug/l	8260B	12/05/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/05/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/05/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/05/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/05/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/05/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/05/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/05/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/05/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/05/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/05/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/05/06	1
1,4-Dioxane	140	100	ug/l	8260B	12/05/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/05/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/05/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/05/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/05/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/05/06	1
Isopropylbenzene	2.9	1.0	ug/l	8260B	12/05/06	1
p-Isopropyltoluene	1.2	1.0	ug/l	8260B	12/05/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/05/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/05/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/05/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/05/06	1
Methyl tert-butyl ether	5.0	1.0	ug/l	8260B	12/05/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/05/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/05/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/05/06	1
n-Propylbenzene	3.4	1.0	ug/l	8260B	12/05/06	1
Styrene	BDL	1.0	ug/l	8260B	12/05/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/05/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/05/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/05/06	1
Toluene	BDL	5.0	ug/l	8260B	12/05/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/05/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/05/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/05/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/05/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-05

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-3

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	12/05/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/05/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/05/06	1
1,2,4-Trimethylbenzene	8.9	1.0	ug/l	8260B	12/05/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/05/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/05/06	1
Xylenes, Total	40.	3.0	ug/l	8260B	12/05/06	1
Surrogate Recovery						
Toluene-d8	89.5		% Rec.	8260B	12/05/06	1
Dibromofluoromethane	81.4		% Rec.	8260B	12/05/06	1
4-Bromofluorobenzene	91.0		% Rec.	8260B	12/05/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:45

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-06

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-4

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/23/06	1
Sulfate	BDL	5000	ug/l	9056	11/23/06	1
Arsenic	100	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	300	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	BDL	10.	ug/l	6010B	11/27/06	1
Iron	46000	100	ug/l	6010B	11/27/06	1
Lead	21.	5.0	ug/l	6010B	11/27/06	1
Manganese	6700	10.	ug/l	6010B	11/27/06	1
Nickel	BDL	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	5.0	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-06

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-4

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	1.5	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	5.2	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	1.3	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-06

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-4

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	4.2	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	1.8	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	210	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	78.7		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	72.9		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	93.7		% Rec.	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:46

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-07

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-6A

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	960	100	ug/l	9056	11/23/06	1
Sulfate	110000	5000	ug/l	9056	11/23/06	1
Arsenic	8.8	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	400	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	28.	10.	ug/l	6010B	11/27/06	1
Iron	25000	100	ug/l	6010B	11/27/06	1
Lead	25.	5.0	ug/l	6010B	11/27/06	1
Manganese	380	10.	ug/l	6010B	11/27/06	1
Nickel	BDL	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-07

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-6A

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-07

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-6A

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	80.3		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	71.3		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	95.0		% Rec.	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:46

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-08

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-7

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	1400	100	ug/l	9056	11/23/06	1
Sulfate	64000	5000	ug/l	9056	11/23/06	1
Arsenic	4.0	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	250	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	BDL	10.	ug/l	6010B	11/27/06	1
Iron	2500	100	ug/l	6010B	11/27/06	1
Lead	8.7	5.0	ug/l	6010B	11/27/06	1
Manganese	460	10.	ug/l	6010B	11/27/06	1
Nickel	BDL	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-08

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-7

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-08

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-7

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	81.2		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	75.1		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	90.9		% Rec.	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:46

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-09

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-11A

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	390	100	ug/l	9056	11/23/06	1
Sulfate	64000	5000	ug/l	9056	11/23/06	1
Arsenic	2.4	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	250	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	12.	10.	ug/l	6010B	11/27/06	1
Iron	8600	100	ug/l	6010B	11/27/06	1
Lead	12.	5.0	ug/l	6010B	11/27/06	1
Manganese	91.	10.	ug/l	6010B	11/27/06	1
Nickel	BDL	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/01/06	1
Acrolein	BDL	50.	ug/l	8260B	12/01/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/01/06	1
Benzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/01/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/01/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/01/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/01/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/01/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/01/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/01/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/01/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-09

Site ID :

Project # : QAS

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Sample ID : GW-11A

Collected By : Chris Eaton
Collection Date : 11/21/06 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/01/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/01/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/01/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/01/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/01/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/01/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/01/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/01/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/01/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/01/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/01/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/01/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/01/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/01/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/01/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/01/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Styrene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Toluene	BDL	5.0	ug/l	8260B	12/01/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-09

Site ID :

Project # : QAS

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Sample ID : GW-11A

Collected By : Chris Eaton
Collection Date : 11/21/06 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	BDL	1.0	ug/l	8260B	12/01/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/01/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/01/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/01/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/01/06	1
Surrogate Recovery						
Toluene-d8	82.0		% Rec.	8260B	12/01/06	1
Dibromofluoromethane	75.0		% Rec.	8260B	12/01/06	1
4-Bromofluorobenzene	96.2		% Rec.	8260B	12/01/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:46

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-10

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-11B

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 11:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	11/23/06	1
Sulfate	28000	5000	ug/l	9056	11/23/06	1
Arsenic	15.	1.0	ug/l	6020	11/28/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Barium	300	5.0	ug/l	6010B	11/27/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/27/06	1
Chromium	11.	10.	ug/l	6010B	11/27/06	1
Iron	9900	100	ug/l	6010B	11/27/06	1
Lead	8.4	5.0	ug/l	6010B	11/27/06	1
Manganese	430	10.	ug/l	6010B	11/27/06	1
Nickel	40.	20.	ug/l	6010B	11/27/06	1
Selenium	BDL	20.	ug/l	6010B	11/27/06	1
Silver	BDL	10.	ug/l	6010B	11/27/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/02/06	1
Acrolein	BDL	50.	ug/l	8260B	12/02/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/02/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/02/06	1
Benzene	BDL	1.0	ug/l	8260B	12/02/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/02/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/02/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/02/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/02/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/02/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/02/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/02/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/02/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/02/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/02/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/02/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/02/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/02/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/02/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-10

Site ID :

Project # : QAS

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Sample ID : GW-11B

Collected By : Chris Eaton
Collection Date : 11/21/06 11:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/02/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1-Dichloroethane	2.8	1.0	ug/l	8260B	12/02/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
cis-1,2-Dichloroethene	12.	1.0	ug/l	8260B	12/02/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/02/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/02/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/02/06	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/02/06	1
1,4-Dioxane	310	100	ug/l	8260B	12/02/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/02/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/02/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/02/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/02/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/02/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/02/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/02/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/02/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/02/06	1
Methyl tert-butyl ether	8.3	1.0	ug/l	8260B	12/02/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/02/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/02/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/02/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Styrene	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
Toluene	BDL	5.0	ug/l	8260B	12/02/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-10

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-11B

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 11:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichloroethene	3.0	1.0	ug/l	8260B	12/02/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/02/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/02/06	1
Surrogate Recovery						
Toluene-d8	80.7		% Rec.	8260B	12/02/06	1
Dibromofluoromethane	75.5		% Rec.	8260B	12/02/06	1
4-Bromofluorobenzene	93.1		% Rec.	8260B	12/02/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:46

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-11

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : PW-1

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/02/06	1
Acrolein	BDL	50.	ug/l	8260B	12/02/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/02/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/02/06	1
Benzene	BDL	1.0	ug/l	8260B	12/02/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/02/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/02/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/02/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/02/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/02/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/02/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/02/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/02/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/02/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/02/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/02/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/02/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/02/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/02/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/02/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/02/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/02/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/02/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-11

Site ID :

Project # : QAS

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Sample ID : PW-1

Collected By : Chris Eaton
Collection Date : 11/21/06 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/02/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/02/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/02/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/02/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/02/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/02/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/02/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/02/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/02/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/02/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/02/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/02/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/02/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/02/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/02/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Styrene	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
Toluene	BDL	5.0	ug/l	8260B	12/02/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/02/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/02/06	1
Surrogate Recovery						
Toluene-d8	79.8		% Rec.	8260B	12/02/06	1
Dibromofluoromethane	76.1		% Rec.	8260B	12/02/06	1
4-Bromofluorobenzene	93.4		% Rec.	8260B	12/02/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-12

Site ID :

Project # : QAS

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Sample ID : PW-2

Collected By : Chris Eaton
Collection Date : 11/21/06 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/02/06	1
Acrolein	BDL	50.	ug/l	8260B	12/02/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/02/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/02/06	1
Benzene	BDL	1.0	ug/l	8260B	12/02/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/02/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/02/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/02/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/02/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/02/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/02/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/02/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/02/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/02/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/02/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/02/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/02/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/02/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/02/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/02/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/02/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/02/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/02/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-12

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : PW-2

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/02/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/02/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/02/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/02/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/02/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/02/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/02/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/02/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/02/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/02/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/02/06	1
Methyl tert-butyl ether	1.0	1.0	ug/l	8260B	12/02/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/02/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/02/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/02/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Styrene	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
Toluene	BDL	5.0	ug/l	8260B	12/02/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/02/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/02/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/02/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/02/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/02/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/02/06	1
Surrogate Recovery						
Toluene-d8	79.2		% Rec.	8260B	12/02/06	1
Dibromofluoromethane	75.7		% Rec.	8260B	12/02/06	1
4-Bromofluorobenzene	90.2		% Rec.	8260B	12/02/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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ENVIRONMENTAL
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-13

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : PW-3

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 14:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/03/06	1
Acrolein	BDL	50.	ug/l	8260B	12/03/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/03/06	1
Benzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/03/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/03/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/03/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/03/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/03/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/03/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/03/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/03/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-13

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : PW-3

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 14:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dioxane	130	100	ug/l	8260B	12/03/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/03/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/03/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/03/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/03/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/03/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/03/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/03/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/03/06	1
Methyl tert-butyl ether	11.	1.0	ug/l	8260B	12/03/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/03/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/03/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/03/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Styrene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Toluene	BDL	5.0	ug/l	8260B	12/03/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/03/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/03/06	1
Surrogate Recovery						
Toluene-d8	82.0		% Rec.	8260B	12/03/06	1
Dibromofluoromethane	77.3		% Rec.	8260B	12/03/06	1
4-Bromofluorobenzene	91.4		% Rec.	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-14

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : PW-4

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/03/06	1
Acrolein	BDL	50.	ug/l	8260B	12/03/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/03/06	1
Benzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/03/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/03/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/03/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/03/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/03/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/03/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/03/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/03/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-14

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : PW-4

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/03/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/03/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/03/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/03/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/03/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/03/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/03/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/03/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/03/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/03/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/03/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/03/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/03/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Styrene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Toluene	BDL	5.0	ug/l	8260B	12/03/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/03/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/03/06	1
Surrogate Recovery						
Toluene-d8	81.7		% Rec.	8260B	12/03/06	1
Dibromofluoromethane	74.3		% Rec.	8260B	12/03/06	1
4-Bromofluorobenzene	92.5		% Rec.	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-15

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : TRENCH

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/03/06	1
Acrolein	BDL	50.	ug/l	8260B	12/03/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/03/06	1
Benzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/03/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/03/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/03/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/03/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/03/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/03/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/03/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/03/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethane	1.3	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-15

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : TRENCH

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dioxane	450	100	ug/l	8260B	12/03/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/03/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/03/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/03/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/03/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/03/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/03/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/03/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/03/06	1
Methyl tert-butyl ether	6.9	1.0	ug/l	8260B	12/03/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/03/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/03/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/03/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Styrene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Toluene	BDL	5.0	ug/l	8260B	12/03/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/03/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/03/06	1
Surrogate Recovery						
Toluene-d8	80.5		% Rec.	8260B	12/03/06	1
Dibromofluoromethane	78.1		% Rec.	8260B	12/03/06	1
4-Bromofluorobenzene	93.3		% Rec.	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-16

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : EFF

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/03/06	1
Acrolein	BDL	50.	ug/l	8260B	12/03/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/03/06	1
Benzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/03/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/03/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/03/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/03/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/03/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/03/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/03/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/03/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,2-Dichloroethene	2.8	1.0	ug/l	8260B	12/03/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-16

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : EFF

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/03/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/03/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/03/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/03/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/03/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/03/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/03/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/03/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/03/06	1
Methyl tert-butyl ether	3.8	1.0	ug/l	8260B	12/03/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/03/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/03/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/03/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Styrene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Toluene	BDL	5.0	ug/l	8260B	12/03/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/03/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/03/06	1
Surrogate Recovery						
Toluene-d8	81.9		% Rec.	8260B	12/03/06	1
Dibromofluoromethane	74.8		% Rec.	8260B	12/03/06	1
4-Bromofluorobenzene	95.4		% Rec.	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:46

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-17

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : RINSE

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/03/06	1
Acrolein	BDL	50.	ug/l	8260B	12/03/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/03/06	1
Benzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromochloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/03/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/03/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/03/06	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/03/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/03/06	1
Chloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/03/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/03/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/03/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270246-17

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : RINSE

Project # : QAS

Collected By : Chris Eaton
Collection Date : 11/21/06 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/03/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/03/06	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	12/03/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/03/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/03/06	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	12/03/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/03/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/03/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/03/06	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/03/06	1
Naphthalene	BDL	5.0	ug/l	8260B	12/03/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/03/06	1
Propionitrile	BDL	50.	ug/l	8260B	12/03/06	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Styrene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Toluene	BDL	5.0	ug/l	8260B	12/03/06	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/03/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/03/06	1
Surrogate Recovery						
Toluene-d8	80.5		% Rec.	8260B	12/03/06	1
Dibromofluoromethane	76.3		% Rec.	8260B	12/03/06	1
4-Bromofluorobenzene	93.9		% Rec.	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 12/05/06 10:56 Revised: 12/06/06 19:46

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L270246-01	Acrolein	J4
	1,2-Dibromoethane	J4
	trans-1,4-Dichloro-2-butene	J4
	trans-1,3-Dichloropropene	J4
	Trichlorofluoromethane	J4
L270246-02	Sulfate	J6
	Acetone	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3
	1,1,2-Trichloroethane	J3
L270246-03	Nitrate	HQ
	Acetone	J3
	Bromoform	J3
	Bromomethane	J4
	Chloroethane	J4
	1,2-Dibromo-3-Chloropropane	J3
	1,3-Dichloropropane	J3
	trans-1,3-Dichloropropene	J4
	2-Hexanone	J3
	Naphthalene	J3
	1,1,2,2-Tetrachloroethane	J3
	1,1,2-Trichloroethane	J3
L270246-04	Acrolein	J4
	1,2-Dibromoethane	J4
	trans-1,4-Dichloro-2-butene	J4
	trans-1,3-Dichloropropene	J4
	Trichlorofluoromethane	J4
L270246-05	Acrolein	J4
	Chloromethane	J4
L270246-06	Acrolein	J3
L270246-07	Acrolein	J3
L270246-08	Acrolein	J3
L270246-09	Acrolein	J3
L270246-10	Acrolein	J3
L270246-11	Acrolein	J3
L270246-12	Acrolein	J3
L270246-13	Acrolein	J3
L270246-14	Acrolein	J3
L270246-15	Acrolein	J3
L270246-16	Acrolein	J3
L270246-17	Acrolein	J3
	Bromomethane	J5
	Chloroethane	J5
	2-Chloroethyl vinyl ether	J6J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
Q	(ESC) Sample held beyond the accepted holding time.
H	RIN(EPA)-Re-Analyzed: The indicated analytical results were generated from a reinjection of the same sample extract or aliquot.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
12/06/06 at 19:46:40

TSR Signing Reports: 690
R5 - Desired TAT

Sample: L270246-01 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-02 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-03 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-04 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-05 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 12/06/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-06 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-07 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-08 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-09 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-10 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-11 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-12 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-13 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-14 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-15 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-16 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4
Sample: L270246-17 Account: DEFFIND Received: 11/22/06 09:00 Due Date: 11/30/06 00:00 RPT Date: 12/05/06 10:56
QC4

Deffenbaugh Industries

18181 W. 53rd
Shawnee,KS 66203

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Mick Cossairt
Email: engr05@mail.planetkc.com
Project Description: ISC-KC Post Closure
City/State Collected:
Phone: (913) 631-3300
FAX: (913) 631-6193
Client Project #: 045
Lab Project #: DEFFIND-ISCKC
Collected by (print): Chris Eaton
Site/Facility ID#:
P.O.#:
Collected by (signature):
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

Account: DEFFIND (lab use only)
Template/Prelogin: T16629 P193303
Cooler #:
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Metals 500ml HDPE HNO3 + Fe + Mn	V8260AP9 40ml Amb-HCl	V8260AP9 40ml Amb-HCL Blk	250mL HDPE - Sulfate/Nitrate			Remarks/Contaminant	Sample # (lab only)
EPA-R-1		GW	—	11/21/06	1115	3	X	X		X				L27084601
EPA-R-3		GW	—	11/21/06	1315	3	X	X						-02
GW-1		GW	—	11/21/06	1320	3	X	X						-03
GW-2R		GW	—	11/21/06	1030	3	X	X						-04
GW-3		GW	—	11/21/06	1020	3	X	X						-05
GW-4		GW	—	11/21/06	1045	3	X	X						-06
~~GW-5~~		~~GW~~	—			3	X	X						-07
GW-6A	—	GW	—	11/21/06	1000	3	X	X						-08
GW-7	—	GW	—	11/21/06	1055	3	X	X						-09

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: PLEASE NOTE ON COFC WHICH WELL WAS THE MS/MSD SITE.

pH _____ Temp _____
Flow _____ Other _____

4577 7052 7432

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	11/21/06	1500	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐
Temp: 3.6°C Bottles Received: 54 ITB
Date: 11.22.06 Time: 0900
Condition: (lab use only)
pH Checked: <2
NCF: X

Deffenbaugh Industries

18181 W. 53rd
Shawnee,KS 66203

Alternate billing information:

Report to: Mr. Mick Cossairt

Email: engr05@mail.planetkc.com

Project Description: ISC-KC Post Closure

City/State Collected

Phone: (913) 631-3300
FAX: (913) 631-6193

Client Project #: QA5

Lab Project #: DEFFIND-ISCKC

Collected by (print): Chris Eaton

Site/Facility ID#:

P.O.#:

Collected by (signature):

Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: DEFFIND (lab use only)
Template/Prelogin: T16629 P193303
Cooler #:
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Metals 500ml HDPE HNO3 + Fe+Mn	V8260AP9 40mlAmb-HCl	V8260AP9 40mlAmb-HCl-Blk	250 ml HDPE - Sulfate Nitrite				Remarks/Contaminant	Sample # (lab only)
GW-11A		GW	—	11/21/06	1030	4	X	X		X					1270246002
GW-11B		GW	—	11/21/06	1145	4	X	X		X					-11
~~GW-12A~~		GW				3	X	X							
~~GW-12B~~		GW				3	X	X							
~~GW-12C~~		GW				3	X	X							
~~RINSE~~		GW				3	X	X							
~~EQ~~		GW				3	X	X							
~~MATRIX SPIKE~~		GW				3	X	X							
~~MATRIX SPIKE DUP~~		GW				3	X	X							

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: PLEASE NOTE ON COFC WHICH WELL WAS THE MS/MSD SITE.

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	11-21	1500			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6 C Bottles Received: 4-1	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11-22-06 Time: 0900	pH Checked: NCF: ✓

Deffenbaugh Industries

18181 W. 53rd
Shawnee,KS 66203

Alternate billing information:

Report to: Mr. Mick Cossairt

Email: engr05@mail.planetkc.com

Project Description: ISC-KC Post Closure

City/State Collected

Phone: (913) 631-3300
FAX: (913) 631-6193

Client Project #: ~~(15C)~~ QAS

Lab Project #: DEFFIND-ISCKC

Collected by (print): Chris Eaton

Site/Facility ID#:

P.O.#:

Collected by (signature):

Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: DEFFIND (lab use only)
Template/Prelogin: T16629 P193303
Cooler #:
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Metals-500ml HDPE-HNO3	V8260AP9 40ml Amb-HCl	V8260AP9 40ml Amb-HCl-BTK				Remarks/Contaminant	Sample # (lab only)
~~DUP~~		GW				~~3~~	X	X						L276246
~~GW~~		GW				~~3~~	X	X						
PW-1	Grab	GW	—	11/21/06	1350	2		X						-12
PW-2	↓	GW	—	↓	1400	2		X						-13
PW-3		GW	—		1410	2		X						-14
PW-4		GW	—		1420	2		X						-15
TRENCH	Grab	GW	—		1345	2		X						-16
EFF	Grab	GW	—		1350	2		X						-17
		GW				2		X						

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks: PLEASE NOTE ON COFC WHICH WELL WAS THE MS/MSD SITE.

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	11-21-06	1500			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6°C Bottles Received: 34	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11-22-06 Time: 0900	pH Checked: NCF: X

L270246

ENVIRONMENTAL SCIENCE CORP.

Cooler Receipt Form

Client: DEFFIND

Cooler Received On: 11/22 and Opened On: 11/22 By: JASON DEATHRIDGE

(Signature)

1. Temperature of cooler when opened: 3.6 Degrees Celsius
2. Were custody seals on outside of cooler and intact? -NA YES NO
   a. If yes, what kind and where: _____
   b. Were the signature and date correct? YES NO
3. Were custody seals on containers intact? -NA YES NO
4. Were custody papers inside cooler? YES NO
5. Were custody papers properly filled out (ink, signed, etc.) YES NO
6. Did you sign the custody papers in the appropriate place? YES NO
7. What kind of packing material was used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)? YES NO
9. Did all bottles arrive in good condition? YES NO
10. Were all bottle labels complete? (#, date, signed, pres, etc)? YES NO
11. Did all bottle labels and tags agree with custody papers? YES NO
12. Were correct bottles used for the analyses requested? YES NO
13. If applicable, was an observable VOA headspace present? YES NO
14. Was sufficient amount of sample sent in each bottle? YES NO
15. Were correct preservatives used? YES NO
16. Corrective action taken, if necessary: NCF: vials received that were marked off COC.
    a. Name of person contacted: See attached for resolution if needed
    b. Date: _____

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No. : L270246

Date: 11.22.06

Evaluated by: Jason D.

Client: DEFFIND

Non-Conformance (check applicable items)

	Chain of Custody is missing	T	Login Clarification Needed
	Improper container type		Improper preservation
	Chain of custody is incomplete		Container lid not in tact
	Parameter(s) past holding time		Improper temperature
	Broken container(s) **see below**		Broken container: sufficient sample volume remains for analysis requested

_____ Insufficient packing material around container

_____ Insufficient packing material inside cooler

_____ Improper handling by carrier (FedEx / UPS / Courier)

_____ Sample was frozen

Comments: Recieved 2 vials For: RINSE, CoC has this MARKED OUT, Confirm Analysis

Login Instructions: **TSR Initials:** TM

Client informed by call / email / fax / voice mail date: _____ time: _____

Client contact: N/A

1) Run them V8260APQ

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd

Shawnee, KS 66203

Report Summary

Wednesday December 06, 2006

Report Number: L270164
Samples Received: 11/22/06
Client Project:

Description: ISC-KC Post Closure

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Reviewed By: _____
Tom Mellette, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, WA - C1915

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270164-01

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-6B

Project # :

Collected By : Chris Eaton
Collection Date : 11/21/06 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	160	100	ug/l	9056	11/22/06	1
Sulfate	62000	5000	ug/l	9056	11/22/06	1
Cyanide	BDL	5.0	ug/l	9012	11/29/06	1
Sulfide	BDL	50.	ug/l	376.2	11/27/06	1
Arsenic	7.2	1.0	ug/l	6020	11/27/06	1
Thallium	BDL	1.0	ug/l	6020	11/27/06	1
Mercury	BDL	0.20	ug/l	7470A	11/28/06	1
Antimony	BDL	10.	ug/l	6010B	11/28/06	1
Barium	660	5.0	ug/l	6010B	11/28/06	1
Beryllium	BDL	2.0	ug/l	6010B	11/28/06	1
Cadmium	BDL	5.0	ug/l	6010B	11/28/06	1
Chromium	BDL	10.	ug/l	6010B	11/28/06	1
Cobalt	BDL	10.	ug/l	6010B	11/28/06	1
Copper	BDL	20.	ug/l	6010B	11/28/06	1
Iron	38000	100	ug/l	6010B	11/28/06	1
Lead	6.9	5.0	ug/l	6010B	11/28/06	1
Manganese	490	10.	ug/l	6010B	11/28/06	1
Nickel	BDL	20.	ug/l	6010B	11/28/06	1
Selenium	BDL	20.	ug/l	6010B	11/28/06	1
Silver	BDL	10.	ug/l	6010B	11/28/06	1
Tin	BDL	20.	ug/l	6010B	11/28/06	1
Vanadium	11.	10.	ug/l	6010B	11/28/06	1
Zinc	BDL	30.	ug/l	6010B	11/28/06	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	12/03/06	1
Acrolein	BDL	50.	ug/l	8260B	12/03/06	1
Acrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Benzene	BDL	1.0	ug/l	8260B	12/03/06	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
Bromoform	BDL	1.0	ug/l	8260B	12/03/06	1
Bromomethane	BDL	5.0	ug/l	8260B	12/03/06	1
Carbon disulfide	BDL	1.0	ug/l	8260B	12/03/06	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
Chloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
2-Chloroethyl vinyl ether	BDL	10.	ug/l	8260B	12/03/06	1
Chloroform	BDL	5.0	ug/l	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270164-01

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-6B

Project # :

Collected By : Chris Eaton
Collection Date : 11/21/06 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	12/03/06	1
Dibromomethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	12/03/06	1
Dichlorodifluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethane	1.7	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,2-Dichloroethene	7.7	1.0	ug/l	8260B	12/03/06	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	12/03/06	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/03/06	1
2-Hexanone	BDL	50.	ug/l	8260B	12/03/06	1
Iodomethane	BDL	50.	ug/l	8260B	12/03/06	1
2-Butanone (MEK)	BDL	50.	ug/l	8260B	12/03/06	1
Methylene Chloride	BDL	5.0	ug/l	8260B	12/03/06	1
4-Methyl-2-pentanone (MIBK)	BDL	50.	ug/l	8260B	12/03/06	1
Pentachloroethane	BDL	50.	ug/l	8260B	12/03/06	1
Styrene	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Toluene	BDL	5.0	ug/l	8260B	12/03/06	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	12/03/06	1
Trichloroethene	BDL	1.0	ug/l	8260B	12/03/06	1
Trichlorofluoromethane	BDL	1.0	ug/l	8260B	12/03/06	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	12/03/06	1
Vinyl acetate	BDL	50.	ug/l	8260B	12/03/06	1
Vinyl chloride	BDL	1.0	ug/l	8260B	12/03/06	1
Xylenes, Total	BDL	3.0	ug/l	8260B	12/03/06	1
Allyl chloride	BDL	50.	ug/l	8260B	12/03/06	1
Chloroprene	BDL	50.	ug/l	8260B	12/03/06	1
trans-1,4-Dichloro-2-butene	BDL	1.0	ug/l	8260B	12/03/06	1
Isobutanol	BDL	100	ug/l	8260B	12/03/06	1
1,4-Dioxane	BDL	100	ug/l	8260B	12/03/06	1
Methacrylonitrile	BDL	50.	ug/l	8260B	12/03/06	1
Methyl methacrylate	BDL	50.	ug/l	8260B	12/03/06	1
Ethyl methacrylate	BDL	5.0	ug/l	8260B	12/03/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270164-01

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-6B

Project # :

Collected By : Chris Eaton
Collection Date : 11/21/06 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Propionitrile	BDL	50.	ug/l	8260B	12/03/06	1
Surrogate Recovery						
Toluene-d8	85.1		% Rec.	8260B	12/03/06	1
Dibromofluoromethane	86.4		% Rec.	8260B	12/03/06	1
4-Bromofluorobenzene	89.3		% Rec.	8260B	12/03/06	1
Pesticide/PCBs						
Aldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Alpha BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Beta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Delta BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Gamma BHC	BDL	0.50	ug/l	8081/8082	11/29/06	1
Chlordane	BDL	5.0	ug/l	8081/8082	11/29/06	1
4,4-DDD	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDE	BDL	0.50	ug/l	8081/8082	11/29/06	1
4,4-DDT	BDL	0.50	ug/l	8081/8082	11/29/06	1
Dieldrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan I	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan II	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endosulfan sulfate	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin	BDL	0.50	ug/l	8081/8082	11/29/06	1
Endrin aldehyde	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
Heptachlor epoxide	BDL	0.50	ug/l	8081/8082	11/29/06	1
Methoxychlor	BDL	0.50	ug/l	8081/8082	11/29/06	1
Toxaphene	BDL	10.	ug/l	8081/8082	11/29/06	1
PCB 1016	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1221	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1232	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1242	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1248	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1254	BDL	0.50	ug/l	8081/8082	11/28/06	1
PCB 1260	BDL	0.50	ug/l	8081/8082	11/28/06	1
Pest/PCBs Surrogates						
Decachlorobiphenyl	60.0		% Rec.	8081/8082	11/28/06	1
Tetrachloro-m-xylene	52.5		% Rec.	8081/8082	11/28/06	1
Herbicides						
2,4-D	BDL	2.0	ug/l	8151	11/28/06	1
2,4,5-T	BDL	2.0	ug/l	8151	11/28/06	1
2,4,5-TP (Silvex)	BDL	2.0	ug/l	8151	11/28/06	1
Surrogate Recovery						
2,4-Dichlorophenyl Acetic Acid	95.5		% Rec.	8151	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270164-01

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-6B

Project # :

Collected By : Chris Eaton
Collection Date : 11/21/06 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Base/Neutral Extractables						
Acenaphthene	BDL	10.	ug/l	8270C	11/28/06	1
Acenaphthylene	BDL	10.	ug/l	8270C	11/28/06	1
Anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzidine	BDL	50.	ug/l	8270C	11/28/06	1
Benzo(a)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(b)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(k)fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	8270C	11/28/06	1
Benzo(a)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/28/06	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
2-Chloronaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/28/06	1
Chrysene	BDL	10.	ug/l	8270C	11/28/06	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	8270C	11/28/06	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/28/06	1
Fluoranthene	BDL	10.	ug/l	8270C	11/28/06	1
Fluorene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/28/06	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/28/06	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	8270C	11/28/06	1
Isophorone	BDL	10.	ug/l	8270C	11/28/06	1
Naphthalene	BDL	10.	ug/l	8270C	11/28/06	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodimethylamine	BDL	50.	ug/l	8270C	11/28/06	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/28/06	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/28/06	1
Phenanthrene	BDL	10.	ug/l	8270C	11/28/06	1
Benzylbutyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-butyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Diethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Dimethyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Di-n-octyl phthalate	BDL	10.	ug/l	8270C	11/28/06	1
Pyrene	BDL	10.	ug/l	8270C	11/28/06	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	11/28/06	1
Acid Extractables						

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270164-01

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-6B

Project # :

Collected By : Chris Eaton
Collection Date : 11/21/06 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Aniline	BDL	10.	ug/l	8270C	11/28/06	1
1,2-Diphenylhydrazine	BDL	10.	ug/l	8270C	11/28/06	1
Benzyl alcohol	BDL	10.	ug/l	8270C	11/28/06	1
4-Chloroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Dibenzofuran	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/28/06	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
3-Methylcholanthrene	BDL	50.	ug/l	8270C	12/05/06	1
2-Methylnaphthalene	BDL	10.	ug/l	8270C	11/28/06	1
2-Methylphenol	BDL	10.	ug/l	8270C	11/28/06	1
3&4-methyl phenol	BDL	10.	ug/l	8270C	11/28/06	1
1,4-Naphthoquinone	BDL	50.	ug/l	8270C	12/05/06	1
2-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
3-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitroaniline	BDL	10.	ug/l	8270C	11/28/06	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/28/06	1
Pentachlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Phenol	BDL	10.	ug/l	8270C	11/28/06	1
Phorate	BDL	50.	ug/l	8270C	12/05/06	1
Pyridine	BDL	10.	ug/l	8270C	11/28/06	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/28/06	1
Additional Semi-Volatiles						
Acetophenone	BDL	50.	ug/l	8270C	11/28/06	1
2-Acetylaminofluorene	BDL	50.	ug/l	8270C	12/05/06	1
4-Aminobiphenyl	BDL	50.	ug/l	8270C	12/05/06	1
Aramite	BDL	50.	ug/l	8270C	12/05/06	1
Chlorobenzilate	BDL	50.	ug/l	8270C	12/05/06	1
Diallate	BDL	50.	ug/l	8270C	12/05/06	1
2,6-Dichlorophenol	BDL	50.	ug/l	8270C	12/05/06	1
Dimethoate	BDL	50.	ug/l	8270C	12/05/06	1
P-(Dimethylamino) Azobenzene	BDL	50.	ug/l	8270C	12/05/06	1
Dimethylbenz (A) Anthracene	BDL	50.	ug/l	8270C	12/05/06	1
3,3-Dimethylbenzidine	BDL	50.	ug/l	8270C	12/05/06	1
a,a-Dimethylphenethylamine	BDL	50.	ug/l	8270C	12/05/06	1
1,3-Dinitrobenzene	BDL	50.	ug/l	8270C	12/05/06	1
Diphenylamine	BDL	50.	ug/l	8270C	12/05/06	1
Dinoseb	BDL	50.	ug/l	8270C	12/05/06	1
Disulfoton	BDL	50.	ug/l	8270C	12/05/06	1
Ethyl methanesulfonate	BDL	50.	ug/l	8270C	12/05/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Mt. Juliet, TN 37122
(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mick Cossairt
Deffenbaugh Industries
18181 W. 53rd
Shawnee, KS 66203

December 06,2006

ESC Sample # : L270164-01

Date Received : November 22, 2006
Description : ISC-KC Post Closure

Site ID :

Sample ID : GW-6B

Project # :

Collected By : Chris Eaton
Collection Date : 11/21/06 10:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Famphur	BDL	50.	ug/l	8270C	12/05/06	1
Hexachloropropene	BDL	50.	ug/l	8270C	12/05/06	1
Isodrin	BDL	50.	ug/l	8270C	12/05/06	1
Isosafrole	BDL	50.	ug/l	8270C	12/05/06	1
Kepone	BDL	50.	ug/l	8270C	12/05/06	1
Methapyrilene	BDL	50.	ug/l	8270C	12/05/06	1
Methyl methanesulfonate	BDL	50.	ug/l	8270C	12/05/06	1
Methyl parathion	BDL	50.	ug/l	8270C	12/05/06	1
1-Naphthylamine	BDL	50.	ug/l	8270C	12/05/06	1
2-Naphthylamine	BDL	50.	ug/l	8270C	12/05/06	1
5-Nitro-o-toluidine	BDL	50.	ug/l	8270C	12/05/06	1
4-Nitroquinoline 1-oxide	BDL	50.	ug/l	8270C	12/05/06	1
n-Nitrosodiethylamine	BDL	50.	ug/l	8270C	12/05/06	1
n-Nitrosodi-n-butylamine	BDL	50.	ug/l	8270C	12/05/06	1
n-Nitrosomethylethylamine	BDL	50.	ug/l	8270C	12/05/06	1
n-Nitrosomorpholine	BDL	50.	ug/l	8270C	12/05/06	1
n-Nitrosopiperidine	BDL	50.	ug/l	8270C	12/05/06	1
n-Nitrosopyrrolidine	BDL	50.	ug/l	8270C	12/05/06	1
Pentachlorobenzene	BDL	50.	ug/l	8270C	12/05/06	1
Pentachloroethane	BDL	50.	ug/l	8270C	12/05/06	1
Pentachloronitrobenzene	BDL	50.	ug/l	8270C	12/05/06	1
Phenacetin	BDL	50.	ug/l	8270C	12/05/06	1
p-Phenylenediamine	BDL	50.	ug/l	8270C	12/05/06	1
2-Picoline	BDL	50.	ug/l	8270C	12/05/06	1
Pronamide	BDL	50.	ug/l	8270C	12/05/06	1
Safrole	BDL	50.	ug/l	8270C	12/05/06	1
Sulfotep	BDL	50.	ug/l	8270C	12/05/06	1
1,2,4,5-Tetrachlorobenzene	BDL	50.	ug/l	8270C	11/28/06	1
2,3,4,6-Tetrachlorophenol	BDL	50.	ug/l	8270C	12/05/06	1
Thionazin	BDL	50.	ug/l	8270C	12/05/06	1
o-Toluidine	BDL	50.	ug/l	8270C	12/05/06	1
2,4,5-Trichlorophenol	BDL	50.	ug/l	8270C	11/28/06	1
sym-Trinitrobenzene	BDL	50.	ug/l	8270C	12/05/06	1
Surrogate Recovery						
Nitrobenzene-d5	57.9		% Rec.	8270C	11/28/06	1
2-Fluorobiphenyl	84.5		% Rec.	8270C	11/28/06	1
p-Terphenyl-d14	114.		% Rec.	8270C	11/28/06	1
Phenol-d5	33.0		% Rec.	8270C	11/28/06	1
2-Fluorophenol	46.2		% Rec.	8270C	11/28/06	1
2,4,6-Tribromophenol	113.		% Rec.	8270C	11/28/06	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/06/06 11:19 Printed: 12/06/06 11:20

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L270164-01	Bis(2-chloroethyl)ether	J4
	Bis(2-chloroisopropyl)ether	J3
	Hexachloro-1,3-butadiene	J3
	Hexachlorocyclopentadiene	J3
	Hexachloroethane	J3J4
	Naphthalene	J4
	Nitrobenzene	J3
	1,2,4-Trichlorobenzene	J3
	Aniline	J3
	Pyridine	J3
	Acetophenone	J4J3
	Acrolein	J4J5J3
	Benzene	J3
	Bromodichloromethane	J3
	Bromomethane	J3
	Carbon disulfide	J3
	Carbon tetrachloride	J6J3
	Chlorobenzene	J3
	Chlorodibromomethane	J3
	Chloroethane	J3
	Chloroform	J3
	Chloromethane	J4J6J3
	1,3-Dichlorobenzene	J3
	1,4-Dichlorobenzene	J3
	Dichlorodifluoromethane	J3
	1,1-Dichloroethane	J3
	1,1-Dichloroethene	J6J3
	cis-1,2-Dichloroethene	J6J3
	trans-1,2-Dichloroethene	J3
	1,2-Dichloropropane	J3
	Ethylbenzene	J3
	Iodomethane	J6J3
	2-Butanone (MEK)	J5J3
	Methylene Chloride	J3
	4-Methyl-2-pentanone (MIBK)	J3
	Styrene	J3
	1,1,1,2-Tetrachloroethane	J3
	Tetrachloroethene	J6J3
	Toluene	J6J3
	1,1,1-Trichloroethane	J6J3
	Trichloroethene	J6J3
	Trichlorofluoromethane	J6J3
	Vinyl chloride	J6J3
	Xylenes, Total	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				(AQ)	(SS)
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	68-128	64-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	76-115	69-118
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	79-127	61-134

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Deffenbaugh Industries

18181 W. 53rd
Shawnee,KS 66203

Alternate billing information:

Report to: Mr. Mick Cossairt

Email: engr05@mail.planetkc.com

Project Description: ISC-KC Post Closure

City/State Collected

Phone: (913) 631-3300
FAX: (913) 631-6193

Client Project #:

Lab Project # DEFFIND-ISCKCAP9

Collected by (print): Chris Eaton

Site/Facility ID#:

P.O.#:

Collected by (signature): Chris Eaton

Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Analysis/Container/Preservative

Cha[illegible]tody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: DEFFIND (lab use only)
Template/Prelogin: T16630/P193304
Cooler #: 11/15 08
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	CN 250mlHDPE Amb-NaOH	Metals 500mlHDPE-HNO3 + Fe 4Mn	SULFIDE 500mlHDPE-NaOH+ZnAc	SV8081/8082 1L-Amb NoPres	SV8151AP9 1L-Amb-NoPres	SV8270AP9 1L-Amb-NaTio	V8260AP9 40mlAmb-HCl	SULFATE/NITRATE	Remarks/Contaminant	Sample # (lab only)
GW-6B		GW	—	11/21/06	1015	11 ~~10~~	X	X	X	X	X	X	X	X		L270164-01

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

8577 7553 7890

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____	Condition:	(lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1° Bottles Received: 11+TS	OK	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11-22-06 Time: 09:00	pH Checked: C2	NCF:

Relinquished by: (Signature) Date: 11-21-06 Time: 1500

L270164

ENVIRONMENTAL SCIENCE CORP.

Cooler Receipt Form

Client: DEFFIND

Cooler Received On: 11-22-06 and Opened On: 11-22-06 By: Jason Estes

(Signature)

1. Temperature of cooler when opened: 3.1°C Degrees Celsius
2. Were custody seals on outside of cooler and intact? YES NO
   a. If yes, what kind and where: _____
   b. Were the signature and date correct? YES NO
3. Were custody seals on containers intact? YES NO
4. Were custody papers inside cooler? YES NO
5. Were custody papers properly filled out (ink, signed, etc.) YES NO
6. Did you sign the custody papers in the appropriate place? YES NO
7. What kind of packing material was used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)? YES NO
9. Did all bottles arrive in good condition? YES NO
10. Were all bottle labels complete? (#, date, signed, pres, etc)? YES NO
11. Did all bottle labels and tags agree with custody papers? YES NO
12. Were correct bottles used for the analyses requested? YES NO
13. If applicable, was an observable VOA headspace present? YES NO
14. Was sufficient amount of sample sent in each bottle? YES NO
15. Were correct preservatives used? YES NO
16. Corrective action taken, if necessary:
    a. Name of person contacted: See attached for resolution if needed
    b. Date: _____

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964
14859 E. Clark Ave., Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634
info@wecklabs.com www.wecklabs.com

CERTIFICATE OF ANALYSIS

Client: Deffenbaugh Industries
18181 W. 53rd Street
Shawnee, KS 66217
Attention: Mick Cossairt

Phone: (913) 631-3300
Fax: (913) 631-6193

Report Date: 12/07/06 15:39
Received Date: 11/22/06 09:00
Turn Around: Normal

Work Order #: 6112207

Client Project: QAS-KC

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Mick Cossairt :

Enclosed are the results of analyses for samples received 11/22/06 09:00 with the Chain of Custody document. The samples were received in good condition, at 3.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:
Marilyn Romero

Marilyn Romero
Project Manager

Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

ffenbaugh Industries
18181 W. 53rd Street
Shawnee KS, 66217

Report ID: 6112207
Project ID: QAS-KC

Date Received: 11/22/06 09:00
Date Reported: 12/07/06 15:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
GW-1	Chris Eaton		6112207-01	Water	11/21/06 13:20
GW-6A	Chris Eaton		6112207-02	Water	11/21/06 10:00
GW-7	Chris Eaton		6112207-03	Water	11/21/06 10:55
GW-8A	Chris Eaton		6112207-04	Water	11/20/06 15:15
GW-8B	Chris Eaton	MS/MSD Required	6112207-05	Water	11/20/06 15:00
GW-8C	Chris Eaton		6112207-06	Water	11/20/06 14:20
GW-9A	Chris Eaton		6112207-07	Water	11/20/06 14:00
GW-9B	Chris Eaton		6112207-08	Water	11/20/06 13:50
GW-10A	Chris Eaton		6112207-09	Water	11/20/06 16:10
GW-10B	Chris Eaton		6112207-10	Water	11/20/06 16:00
GW-10C	Chris Eaton		6112207-11	Water	11/20/06 15:45
W-11A	Chris Eaton		6112207-12	Water	11/21/06 10:30
W-11B	Chris Eaton		6112207-13	Water	11/21/06 11:45
GW-12A	Chris Eaton		6112207-14	Water	11/20/06 09:30
GW-12B	Chris Eaton		6112207-15	Water	11/20/06 10:00
GW-12C	Chris Eaton		6112207-16	Water	11/20/06 10:15
DUP	Chris Eaton		6112207-17	Water	11/20/06 00:00

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

effenbaugh Industries 8181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-1 6112207-01 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**8.1**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

effenbaugh Industries 18181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-6A 6112207-02 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**1.7**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

ffenbaugh Industries .8181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-7 6112207-03 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**8.5**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Phone 626.336.2139 Fax 626.336.2634

effenbaugh Industries 18181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-8A 6112207-04 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**1.0**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

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·effenbaugh Industries 18181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-8B 6112207-05 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**18**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

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;ffenbaugh Industries .8181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-8C 6112207-06 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**140**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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effenbaugh Industries 8181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-9A 6112207-07 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**1.3**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

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·effenbaugh Industries .8181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-9B 6112207-08 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**36**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

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Phone 626.336.2139 Fax 626.336.2634

ffenbaugh Industries .6181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-10A 6112207-09 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**1.2**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

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Phone 626.336.2139 Fax 626.336.2634

·effenbaugh Industries .8181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-10B 6112207-10 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**26**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

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Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

ffenbaugh Industries 8181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-10C 6112207-11 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**220**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

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Weck Laboratories, Inc.
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ffenbaugh Industries 18181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-11A 6112207-12 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**11**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

Weck Laboratories, Inc.
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ffenbaugh Industries 5181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-11B 6112207-13 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**330**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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ffenbaugh Industries 181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-12A 6112207-14 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**6.1**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

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effenbaugh Industries
8181 W. 53rd Street
Shawnee KS, 66217

Report ID: 6112207
Project ID: QAS-KC

Date Received: 11/22/06 09:00
Date Reported: 12/07/06 15:39

GW-12B 6112207-15 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**1.6**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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ffenbaugh Industries 6181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

GW-12C 6112207-16 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**74**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

Weck Laboratories, Inc.
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·ffenbaugh Industries .6181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

DUP 6112207-17 (Water)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
1,4-Dioxane	**26**	ug/l	0.50	1	EPA 8270M	W6K0981	11/28/06	12/04/06	HP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Deffenbaugh Industries 18181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

QUALITY CONTROL SECTION

Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

ɜffenbaugh Industries ɜ181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W6K0981 - EPA 3520C										
Blank (W6K0981-BLK1)				Analyzed: 12/04/06						
1,4-Dioxane	ND	0.50	ug/l							
LCS (W6K0981-BS1)				Analyzed: 12/04/06						
1,4-Dioxane	10.4	0.50	ug/l	10.0		104	76-131			
Matrix Spike (W6K0981-MS1)		**Source: 6112207-05**		Analyzed: 12/04/06						
1,4-Dioxane	31.0	0.50	ug/l	10.0	18	130	67-138			
Matrix Spike Dup (W6K0981-MSD1)		**Source: 6112207-05**		Analyzed: 12/04/06						
1,4-Dioxane	28.0	0.50	ug/l	10.0	18	100	67-138	10.2	30	

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ffenbaugh Industries 8181 W. 53rd Street Shawnee KS, 66217	Report ID: 6112207 Project ID: QAS-KC	Date Received: 11/22/06 09:00 Date Reported: 12/07/06 15:39

Notes and Definitions

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Weck Laboratories, Inc.
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Sample Receipt Acknowledgement

WORK ORDER: 6112207 **Printed:** 11/27/2006 2:32:14PM

Client: Deffenbaugh Industries
Project: 1,4-Dioxane

Project Manager: Marilyn Romero
Project Number: QAS-KC

Report To:
Deffenbaugh Industries
Mick Cossairt
18181 W. 53rd Street
Shawnee, KS 66217
Phone: (913) 631-3300
Fax: (913) 631-6193

Invoice To:
Deffenbaugh Industries
Mick Cossairt
18181 W. 53rd Street
Shawnee, KS 66217
Phone :(913) 631-3300
Fax: (913) 631-6193

Date Due: 12/06/06 00:00 (10 day TAT)

Received By: Jaime Gomez
Date Received: 11/22/06 09:00
Logged In By: Jaime Gomez
Date Logged In: 11/22/06 10:04

Samples Received at:	3.8°C	All containers intact:	Yes	Chain of custody completed:	Yes
Number of Ice chests/packages:	5	Custody seals present:	NA	Sample labels & COC agree:	Yes
Appropriate Sample Containers:	Yes	Custody seals intact:	NA	Samples preserved properly:	Yes
		Samples received on ice:	Yes	Sample volume sufficient:	Yes
		Custody Seals	No	Sufficient holding time for all tests:	Yes

Analysis	Due	TAT	Expires	Comments
6112207-01 GW-1 [Water] Sampled 11/21/06 13:20 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/05/06 13:20	
6112207-02 GW-6A [Water] Sampled 11/21/06 10:00 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/05/06 10:00	
6112207-03 GW-7 [Water] Sampled 11/21/06 10:55 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/05/06 10:55	
6112207-04 GW-8A [Water] Sampled 11/20/06 15:15 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 15:15	
6112207-05 GW-8B [Water] Sampled 11/20/06 15:00 Pacific				**MS/MSD Required**
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 15:00	
6112207-06 GW-8C [Water] Sampled 11/20/06 14:20 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 14:20	
6112207-07 GW-9A [Water] Sampled 11/20/06 14:00 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 14:00	
6112207-08 GW-9B [Water] Sampled 11/20/06 13:50 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 13:50	
6112207-09 GW-10A [Water] Sampled 11/20/06 16:10 Pacific				
Dioxane_w	12/06/06 00:00	10	12/04/06 16:10	

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www.wecklabs.com

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Sample Receipt Acknowledgement

WORK ORDER: 6112207 **Printed:** 11/27/2006 2:32:14PM

Client: Deffenbaugh Industries **Project Manager:** Marilyn Romero
Project: 1,4-Dioxane **Project Number:** QAS-KC

Analysis	Due	TAT	Expires	Comments
6112207-10 GW-10B [Water] Sampled 11/20/06 16:00 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 16:00	
6112207-11 GW-10C [Water] Sampled 11/20/06 15:45 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 15:45	
6112207-12 GW-11A [Water] Sampled 11/21/06 10:30 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/05/06 10:30	
6112207-13 GW-11B [Water] Sampled 11/21/06 11:45 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/05/06 11:45	
6112207-14 GW-12A [Water] Sampled 11/20/06 09:30 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 09:30	
6112207-15 GW-12B [Water] Sampled 11/20/06 10:00 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 10:00	
12207-16 GW-12C [Water] Sampled 11/20/06 10:15 Pacific				
,4-Dioxane_w	12/06/06 00:00	10	12/04/06 10:15	
6112207-17 DUP [Water] Sampled 11/20/06 00:00 Pacific				
1,4-Dioxane_w	12/06/06 00:00	10	12/04/06 00:00	

Comments:

Authorized Signature

11/27/2006
Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

6112207

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CHAIN OF CUSTODY RECORD

14859 East Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ? Fax 626-336-2634 ? www.wecklabs.com

CLIENT NAME: Deffenbaugh Ind.
PROJECT: QAS-KC
ADDRESS: 18181 W. 53rd St. Shawnee, KS 66217
Phone/Fax: 913-631-3300 x1207
Email: engl-05@mail.planetkc.com
PROJECT MANAGER: Mick Cossiart
SAMPLER: Chris Eaton

ANALYSES REQUESTED: 1,4-Dioxane

SPECIAL HANDLING
- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☒ 10 - 15 Business Days
- ☐ QA/QC Package

Charges will apply for weekends/holidays
Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	1,4-Dioxane	COMMENTS
6112207-01	11/21	1320	water	GW-1	2	X	Level 4 QA/QC Data package
~~02~~	~~NS~~	—		~~GW-5~~	~~2~~		Needed.
~~03~~ 02	11/21/06	1000	water	GW-6A	2		
~~04~~ 03	10/21/06	1055		GW-7	2		
~~05~~ 04	11/20/06	1515		GW-8A	2		
~~06~~ 05	11/20/06	1500		GW-8B	4		MS/MSD
~~07~~ 06	11/20/06	1420		GW-8C	2		
~~08~~ 07	11/20/06	1400		GW-9A	2		
~~09~~ 08	11/20/06	1350		GW-9B	2		
~~10~~ 09	11/20/06	1610		GW-10A	2		

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Chris Eaton	11-21-06 / 1745	Jaime Gomez 11/22/06
RELINQUISHED BY	DATE / TIME	RECEIVED BY 9:00
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:
Actual Temperature: 3.8°C
Received On Ice: Y N
Preserved: Y N
Evidence Seals Present: Y N/A
Container Attacked: Y N
Preserved at Lab: Y N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions (see back of this form)

SPECIAL REQUIREMENTS / BILLING INFORMATION

C011220

CHAIN OF CUSTODY RECORD

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964
14859 East Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ? Fax 626-336-2634 ? www.wecklabs.com

CLIENT NAME: DeFFenbaugh Ind
PROJECT: QAS-KC
ADDRESS: 18181 W. 53rd ST. Shawnee, KS 66217
Phone/Fax: 913-631-3300 x1207
Email: engr05@mail.planetkc.com
PROJECT MANAGER: MICH COSSART
SAMPLER: Chris EATON

ANALYSES REQUESTED: 1,4-Dioxane

SPECIAL HANDLING
- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☒ 10 - 15 Business Days
- ☐ QA/QC Package

Charges will apply for weekends/holidays
Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	1,4-Dioxane	COMMENTS
C011207 ~~11~~ 10	11/20/06	1600	Water	GW-10 B	2	X	
~~12~~ 11	11/20/06	1545		GW-10 C	2		
~~13~~ 12	11/21/06	1030		GW-11 A	2		
~~14~~ 13	11/21/06	1045		GW-11 B	2		
~~15~~ 14	11/20/06	0930		GW-12 A	2		
~~16~~ 15	11/20/06	1000		GW-12 B	2		
~~17~~ 16	11/20/06	~~0950~~ 1015		GW-12 C	2		
~~18~~ 17	11/20/06	—		DUP	2		
JG 11/22/06							

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	11/21/06-1745	James Gomez 11/22/06
		9:00

SAMPLE CONDITION:
Actual Temperature: 3.8°C
Received On Ice: Y / N
Preserved: Y / N
Evidence Seals Present: Y / NA
Container Attacked: Y / N
Preserved at Lab: Y / N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions (see back of this form)

SPECIAL REQUIREMENTS / BILLING INFORMATION

Appendix C

Appendix C

Data Validation Report

Shaw™

Shaw Environmental & Infrastructure, Inc.

Data Validation Report

16406 U.S. Route 224 East • Findlay, Ohio 45840 *Findlay Ohio Office – Applied Sciences*

PROJECT NUMBER:	125386		
PROJECT MANAGER:	Mark Finney	**SAMPLE RECEIPT DATE:**	11/20/2006
PROJECT NAME:	Deffenbaugh Industries	**LABORATORY SDG:**	L269960

The Findlay Applied Sciences Group of Shaw Environmental & Infrastructure, Inc. (Shaw E&I) has performed a QA evaluation of the data report submitted by Environmental Science Corporation (ESC), Mount Juliet, TN. The results are for fourteen (14) water samples including a DUPLICATE AND TRIP BLANK collected on November 20, 2006. The samples were analyzed for the parameters listed in the Sample Summary Table below:

Sample Summary Table

Sample Number	Collection Date	Matrix	Analysis Requested
GW-8A	11/20/06	Water	Nitrate/Sulfate Anions by Method 9056
GW-8B	11/20/06	Water	Chromium Hexavalent by Method 7196A
GW-8C	11/20/06	Water	Cyanide by Method 9012
GW-9A	11/20/06	Water	Sulfide anion by Method 376.2
GW-9B	11/20/06	Water	Arsenic by Method 6020 (Total)
GW-10A	11/20/06	Water	Mercury by Method 7470A (Total)
GW-10B	11/20/06	Water	Metals by Method 6010B (Total)
GW-10C	11/20/06	Water	VOCs by Method 8260B
GW-11A	11/20/06	Water	Pesticides/PCBs by Method 8081/8082
GW-11B	11/20/06	Water	SVOC/Acid Extractables by Method 8270C
GW-11C	11/20/06	Water	
DUP (GW-8B)	11/20/06	Water	
GW-12A	11/20/06	Water	Arsenic by Method 6020 (Total)
GW-12B	11/20/06	Water	Mercury by Method 7470A (Total)
GW-12C	11/20/06	Water	Metals by Method 6010B (Total)
			VOCs by Method 8260B
TRIP BLANK	11/20/06	Water	VOCs by 8260B

All sample preparations and analyses were performed within the required holding times. The cooler was received within the appropriate temperature, properly preserved and in proper containers as indicated in the case narrative of the data report. Analytical parameter requests for sulfate and nitrate were missing on two of the three COCs. The analytical request for Sulfate and Nitrate was noted in the ESC "Sample Non-conformance Form". The analytical request for the Sulfide analyte was missing from one of the COCs but was included in the ESC data packet. The following describes the overall QA/QC indicators.

Nitrate and Sulfate in Water by SW-846 Method 9056

Instrument Calibration

The instruments were properly calibrated and in analytical control on all analysis days with the exception of a Nitrate Percent RPD value for an ALT STD Calibration Verification. This QC value was correctly flagged with the "*" qualifier.

All initial and continuing calibration verifications were compliant with the method criteria. The results of the continuing calibration blanks are below the reporting limits. The CCV information in the laboratory Case Narrative and a manual verification of the calibration curves indicate that both instruments (IC3 and IC4) were properly calibrated and in analytical control. The results of the continuing calibration blanks are below the reporting limits. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies. It should be noted analytical values for four (4) other anion analytes were performed but were not requested, hence these analytes only appear in the raw data and were not reported in the Analytical Report (also, all submitted samples were analyzed but not requested for Chloride using both Methods 300.0 and 9056). As such, the values for Chloride will not be reviewed in the DVR.

Method Blanks

The LCB results are below reporting limit for Nitrate and Sulfate. This is indicative of proper sample handling and a contaminant free system.

Method Spike

The LCS and LCSD recoveries are within the established control limits for all reported analytes in all QC batches.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

Sample GW-8B was designated for the Analytical QC MS/MSD with recovery and precision performance within acceptance limits.

Sample Duplicate

The relative percent differences (RPD) between the original and duplicate analysis are above the control limits for Nitrate in the QC duplicates and was correctly flagged with the J3 flag. All other parameters are within the established control limits for Nitrate and Sulfate in the QC batches. It should be noted that sample GW-8B contained 7800 ug/L Sulfate and sample Duplicate (GW-8B) contained less than 5,000 ug/L Sulfate (MDL).

General Notes

There are no additional comments concerning the target analytes for nitrate and sulfate and the results should be utilized without reservation in project decisions.

Chromium Hexavalent by Method 7196A

Instrument Calibration

The instrument, a HACH 4000 unit, was properly calibrated and in analytical control on all analysis days. All initial and continuing calibration verifications were compliant with the method criteria. The results of the continuing calibration blanks are below the reporting limits. The CCV information in the laboratory Case Narrative and a manual verification of the calibration curves indicate that the instrument was properly calibrated and in analytical control. All analysis runs were bracketed by passing CCV checks performed at the required frequencies.

Method Blanks

The LCB results are below reporting limit. This is indicative of proper sample handling and a contaminant free system.

Method Spike

The LCS and LCSD recoveries are within the established control limits for all reported analytes in all QC batches.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

Sample GW-8B was designated for the Analytical QC MS/MSD with recovery and precision performance within acceptance limits.

Sample Duplicate
The RPD between the original and duplicate analysis are within the control limits for the QC duplicates. The Raw data was flagged with the O qualifier for Sample GW-8B which was used as the duplicate sample. The analyst noted that "a 10X dilution was required because of a low spike recovery". This comment by the analyst indicated the possibility of a matrix interference.

General Notes
There are no additional comments concerning the target analytes for Hexavalent Chromium and the results should be utilized without reservation in project decisions.

Cyanide by Method 9012
Instrument Calibration
The instrument, KONE2, was properly calibrated and in analytical control on all analysis days. All initial and continuing calibration verifications were compliant with the method criteria. The results of the continuing calibration blanks are below the reporting limits. The CCV and CCB information in the laboratory Case Narrative and a manual verification of the calibration curves indicate that the instrument was properly calibrated and in analytical control. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies.

Method Blanks
The LCB results are below reporting limit. This is indicative of proper sample handling and a contaminant free system.

Method Spike
The LCS and LCSD recoveries are within the established control limits for all reported analytes in all QC batches.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)
Sample GW-8B was designated for the Analytical QC MS/MSD with recovery and precision performance within acceptance limits.

Sample Duplicate
The RPD between the original and duplicate analysis are within the control limits for the QC duplicates. Samples GW-8B and GW-11C were used as the duplicate sample.

General Notes
There are no additional comments concerning the target analytes for cyanide and the results should be utilized without reservation in project decisions.

Sulfide by Method 376.2
Instrument Calibration
The instrument, HACH 4000, was properly calibrated and in analytical control on all analysis days. All initial and continuing calibration verifications were compliant with the method criteria. The results of the continuing calibration blanks are below the reporting limits. The CCV and CCB information in the laboratory Case Narrative and a manual verification of the calibration curves indicate that the instrument was properly calibrated and in analytical control. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies.

Method Blanks
The LCB results are below reporting limit. This is indicative of proper sample handling and a contaminant free system.

Method Spike
The LCS and LCSD recoveries are within the established control limits for all reported analytes in all QC batches.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)
Samples GW-8B and GW-10C were designated for the Analytical QC MS/MSD with recovery and precision performance within acceptance limits.

Sample Duplicate
The relative percent differences (RPD) between the original and duplicate analysis are within the control limits for the QC duplicates. Sample GW-8B was used as the duplicate sample.

General Notes
There are no additional comments concerning the target analytes for sulfide and the results should be utilized without reservation in project decisions.

Mercury by Method 7470A (Total)
Instrument Calibration
The instruments, CVAA2 and CVAA3, was properly calibrated and in analytical control on all analysis days. All initial and continuing calibration verifications were compliant with the method criteria. The results of the continuing calibration blanks are below the reporting limits. The CCV and CCB information in the laboratory Case Narrative and a manual verification of the calibration curves indicate that the instrument was properly calibrated and in analytical control. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies.

Method Blanks
The LCB results are below reporting limit. This is indicative of proper sample handling and a contaminant free system.

Method Spike
The LCS and LCSD recoveries are within the established control limits for all reported analytes in all QC batches.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)
Sample GW-8B was designated for the Analytical QC MS/MSD with recovery and precision performance within acceptance limits.

Sample Duplicate
The RPD between the original and duplicate analysis are within the control limits for the QC duplicates. Sample GW-8B and another client's samples were used as the duplicate samples.

General Notes
There are no additional comments concerning the target analytes for Mercury and the results should be utilized without reservation in project decisions.

Total Metals Analysis by SW-846 Method 6010B; Arsenic using SW-846 Method 6020
Instrument Calibration
The instruments used for the analysis were ICP3 and ICP4. Raw Calibration Summary information is provided for the ICP instrument but the respective calibration curves are not provided. Based upon the ICV and CCV information the laboratory Case Narrative, and a manual verification for one of the calibration curves (Lead) both instruments were properly calibrated and in analytical control. The ICP interference corrections were properly established prior to analysis as evidenced by the Interference Check results. No ICP-MS tuning or resolution data was provided, the laboratory case narrative states that all method specified criteria were met. The results of the continuing calibration blanks are below the reporting limits. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies

Method Blanks
The LCB results are below reporting limit for the total batch as well as for total arsenic. This is indicative of proper sample handling and a contaminant free system.

Method Spike
The LCS recoveries are within the established control limits for all reported analytes in all QC batches. This includes QC batches analyzed for total metals as well as total arsenic.

Matrix Spike/ Post Digestion Spike
Sample GW-8B was designated for the QC Matrix spikes (MS/MSD) for total metals analysis, including Arsenic. Recovery for total silver was less than 10 percent and exhibited acceptable precision. The total silver results have been flagged as J6 for sample GW-8B. There appears to be a potential issue with the laboratory's ability to recover silver from a non-reagent water matrix. In addition, Iron was flagged with the V qualifier and had a negative percent recovery indicative of a sample concentration too high to accurately evaluate spike recoveries for the analyte.

Sample GW-8B was also spiked for total arsenic with recovery and precision performance within acceptance limits.

Sample Duplicate
The Case Narrative Summary indicates that a sample (L269303-01) from another client was utilized for Sample Duplicate analysis for ICP metals. This assertion is incorrect because page 363 of 2340 indicates L-269960-02 (GW-8A) was used for the Sample Duplicate.

Relative percent differences between the original and duplicate analysis are within the control limits for all detected metals in the selected QC duplicate with exceptions for Cadmium, Selenium and Silver. There appears to be a potential issue with the laboratory's ability to recover these metals. RPD values for these metals are not reported.

General Notes
There are no additional comments concerning the target analytes for metals and the results should be utilized without reservation in project decisions.

Volatile Analysis by SW845 Method 8260B
Instrument Calibration
The analyses were completed within valid 12-hour tune clocks. The Narrative Summary states that the GC/MS systems were tuned and calibrated in accordance within method requirements. The analyses were completed on two instruments (VOCMS #4 and VOCGCMS #7). The % RSDs for the CCCs were less than 30% with the following exceptions:

> VOCMS #4 (11-30-06): Acrolein / Acetone / Iodomethane / 2-Butanone / Chloroform / 2-Chloroethyl vinyl ether / trans-1,4-Dichloro-2-butene
>
> VOCGCMS #7 (11-30-06): Bromomethane / Chloroethane / Acrolein / Iodomethane / 2,2-Dichloropropane / 2-Butanone / trans-1,3-Dichloropropene / Bromoform
>
> VOCGCMS #7 (12-01-06): Bromomethane / Chloroethane / Acrolein / Iodomethane / trans-1,3-Dichloropropene / Chlorodibromomethane / 1,1,1,2-Tetrachloroethane / Styrene / Bromoform / Bromobenzene / 1,1,2,2-Tetrachloroethane / 1,2,3-Trichloropropane

No qualification will be required for non-detects at the reporting limit for High recoveries.

Method Blank
The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system.

Method Spike
In QC batch WG277457, for samples GW-8A, GW-8B, GW-8C, GW-9A, GW-9B, GW-10A, GW-10B and GW-10C, LCS/LCSD were out of control limits for the following analytes: Chloromethane, Vinyl chloride, 2-Chloroethyl vinyl ether and trans-1,4-Dichloro-2butene and were flagged with the J4 Qualifier.

In QC batch WG277403, for samples GW-11C, Dup, GW-12A, GW-12B, GW-12C and Trip Blank, LCS/LCSD were out of control limits for the following analytes: Bromomethane, Chloroethane and trans-1,4-Dichloro-2butene and were flagged with the J4 Qualifier. The %RPD was also out of control limits for 2-Hexanone.

No qualification is necessary since all the associated results are non-detect for these analytes with the following exception: Chloroethane for sample GW-11C which had a value of 7.2 ug/L. The LCS/LCSD were within 2% of the lower control limit and was flagged with the J4 Qualifier.

Matrix Spikes
In QC batch WG277457 the site-specific QC Matrix sample set was performed, using sample GW-8B. Recovery of Chloroethane was out of control limits and was flagged with the J5 qualifier indicating potential matrix interferences. The spike recoveries were within control limits for the remaining target analytes. The RPD exceeded control limits for Acrolein. All other spiked analytes resulted in acceptable recovery and precision.

In QC batch WG277403 the site-specific QC Matrix sample set was performed, using another client's sample. Recovery of cis-1,2-Dichloroethene, 2-Butanone, 2-Chloroethyl vinyl ether, trans-1,4-Dichloro-2-butene and Hexachlorobutadiene were out of control limits and were flagged with the J5/J6 qualifiers indicating potential matrix interferences. The spike recoveries were within control limits for the remaining target analytes. The RPD exceeded control limits for Acrolein and Naphthalene. All other spiked analytes resulted in acceptable recovery and precision.

Surrogates
All Surrogate recovery data for the project samples and associated QC samples is within acceptance limits with the following exception for Batch WG277403 sample GW-12B which was flagged with the "*" qualifier for the target Bromofluoromethane.

Internal Standards
All ISTD areas are within the method limits for all samples and QC samples.

Field QC
Sample Duplicate

There was one analyte (1,1-Dichloroethane) detected in the original sample (GW-8B) at a concentration of 1.2 ug/L and was BDL in the Duplicate sample. Results for this compounds yielded acceptable precision estimates (RPD values). The MDL for this target analyte was 1.0 ug/L.

Blanks
No target analytes were reported in the TRIP BLANK sample.

General Notes
There are no additional comments concerning the target analytes for VOCs and the results should be utilized without reservation in project decisions.

Semi-Volatile Organic Compounds (SVOC)/Acid Extractables by Method 8270C
The analyses were completed within valid 12-hour tune clocks. The Narrative Summary states that the GC/MS systems were tuned and calibrated in accordance within method requirements. The Method 8270C analyses were completed on two instruments (BNAMS9 and BNAMS11).

The instrument performance summary indicates

The % RSDs for the CCCs were less than 30% with the following exceptions:

BNAMS11 (11/28/06 – 9:43 am): Benzidine and Benzo(g,h,i)perylene

BNAMS9 (11/29/06 – 10:38 am): 4-Nitroaniline and Benzo(g,h,i)perylene

(11/29/06 – 2:07 pm): n-nitrosodimethylamine, Bis(2-chloroethyl)ether, Phenol, Hexachloroethane, Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, n-Nitrosodiphenylamine, Benzidine, 3,3-Dichlorobenzidine and Benzo(g,h,i)perylene

No qualification will be required for non-detects at the reporting limit for High recoveries.

Method Blank
The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system.

Method Spike (LCS/LCSD)
In QC batch WG276748, for samples GW-8C, GW-9A, GW-9B, GW-10A, GW-10B, GW-10C, GW-11C and Dup (GW-8B) LCS/LCSD were out of control limits for the following analytes: Benzoic Acid, Hexachlorocyclopentadiene and Benzo(b)fluoranthene were flagged with the J3 Qualifier for exceeding the %RPD control limit. 2-Chloronaphthalene was flagged with the J4 Qualifier for exceeding the acceptable control limit.

In QC batch WG276996, for samples GW-8A and GW-B LCS/LCSD were out of control limits for the following analytes: 4-Nitroaniline, Pentachlorophenol and Benzidine were flagged with the J3 Qualifier. The %RPD was also out of control limits for the same target analytes and 4,6-Dinitro-2-methylphenol, 2-Nitrophenol, Benzoic acid, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 3-Nitroaniline, 2,4,6-dinitrophenol and 4-Nitrophenol.

No qualification is necessary since all the associated results are non-detect for these analytes with the following exception: Chloroethane for sample GW-11C which had a value of 7.2 ug/L. The LCS/LCSD were within 2% of the lower control limit and was flagged with the J4 Qualifier.

Matrix Spikes
In QC batch WG276748, for samples GW-8C, GW-9A, GW-9B, GW-10A, GW-10B, GW-10C, GW-11C and Dup (GW-8B) 2-Chloronaphthalene was evaluated, according to the Narrative, using the LCS/LCSD. The RPDs exceeded LCS for Benzoic Acid, Hexachlorocyclopentadiene and Benzo(b)fluoranthene.

In QC batch WG276996 the site-specific QC Matrix sample set was performed, using sample GW-8B. Recovery of 2,4-Dimethylphenol and Benzidine were out of control limits and were flagged with the J3 and J6 qualifiers indicating potential matrix interferences and exceeding the allowable control limit qualifiers. In addition, 2-Methylphenol and 2,4-Dimethylphenol were flagged with the J3 qualifiers and 4-Nitroaniline was flagged with the J6 qualifier.

The spike recoveries were within control limits for the remaining target analytes. All other spiked analytes resulted in acceptable recovery and precision.

Surrogates
All Surrogate recovery data for the project samples and associated QC samples are within acceptance limits.

Internal Standards
All ISTD areas are within the method limits for all samples and QC samples.

Field QC
Sample Duplicate
GW-8B and the Duplicate sample target analytes were all below MDL.

General Notes
There are no additional comments concerning the target analytes for SVOCs and the results should be utilized without reservation in project decisions.

PCBs by Method 8082
The samples were extracted and analyzed on the following dates:

QC Batch WG276537 consisting of Samples GW-8A, -8B, -10A, -10B, -10C, -11C, MS, MSD, LCS, LCSD and Blank was extracted on November 23, 2006 and analyzed on November 27 and 28, 2006.

QC Batch WG276352 consisting of Samples GW-8C, -9A, -9B, Dup, LCS, LCSD and Blank was extracted on November 22, 2006 and analyzed on November 23 and 26, 2006.

Instrument Calibration
The analytical system was multi-point calibrated for two Arochlor mixtures (1016 and 1260) and single point response calibrated for all other Arochlors (1221, 1232, 1242, 1248 and 1254) on November 19 and 28, 2006. Instrument SVGC20 was only utilized for QC purposes during the LCS, LCSD and the Method Blank runs. A manual check of the instrument calibration curve for Column #1 calculated that the correlation curve fit was within acceptance criteria (correlation coefficient 0.999). The calibration fit was by average RF (this was manually verified by the data reviewer for one Arochlor 1016 peak) and all selected peaks met the precision RSD criteria <20% with the exception of one Arochlor 1260 peak with an average RSD of 31%.

The laboratory also analyzed a PQL standard. All peaks which were utilized for PCB quantitation and identification were detected. A separate source calibration check met criteria. A number of the CCV runs were either biased high or biased low. No qualification was required for non-detects at the High biased recoveries. The Low biased CCVs were all greater than 80% Recovery and as such the control limits were within acceptance criteria. The Low biased % Recoveries was reported on Column #2 of SVGC18.

Method Blank
The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system.

Method Spike (LCS/LCSD)
The LCS/LCSD are within acceptance limits for the spiked Arochlor 1260 mixture with the exception of a High Bias on Column #1 of the instrument.

Matrix Spikes (MS/MSD)
The QC matrix analysis and spikes utilized Sample GW-8B from QC batch WG276537. The % Recovery and precision were within acceptance limits but the precision was high biased regarding batch WG276537 for both columns.

Due to limited sample volumes, the LCS/LCSD were utilized for MS/MSD QC purposes for batch WG276352 and with the exception of a High Bias on Column #1 of the instrument the % Recovery and precision were within acceptance limits.

Surrogates
All Surrogate recovery data for the project samples and associated QC samples are within acceptance limits with the following exceptions:

TCMX recoveries for GW-11C and Blank respectively Column #1 and #2
DCB recovery LCSD, GW-8B and MSD for Column #1.
DCB recovery for GW-8C, MS and MSD for Column #2.

Field QC
Sample Duplicate
GW-8B and the Duplicate sample target analytes were all below MDL.

General Notes
There are no additional comments concerning the target analytes for PCBs and the results should be utilized without reservation in project decisions.

<u>Chlorinated Pesticides by SW845 Method 8081A</u>
The samples were extracted and analyzed on the following dates:

QC Batch WG276537 consisting of Samples GW-8A, -8B, -10A, -10B, -10C and -11C was extracted on November 23, 2006 and analyzed on November 29, 2006 using instrument SVGC20.

QC Batch WG276352 consisting of Samples GW-8C, -9A, -9B was extracted on November 22, 2006 and analyzed on November 24, 2006 also using instrument SVGC20.

Instrument Calibration
The Case Narrative states that "SVG20 was calibrated on November 27, 2006 and that the initial calibration and continuing calibration verification standards were within or above method limits." And, "the instrument exhibited increased sensitivity in the calibration verification standards ... the increased instrument sensitivity had no impact on the sample reporting limit." Although the samples were analyzed by SVGC20 on November 24 and 29, 2006, the instrument's analytical data was calibrated on November 27, 2006 from the stored analytical curve from the November 24th run. The data from the November 29, 2006 analytical run was calibrated the same day. It should be noted that none of the samples contained pesticides above the MDL.

Instrument SVGC18 was only used for the LCS/LCSD method QC samples. Instrument SVGC20 was used for both the LCS/LCSD method QC samples and the environmental samples.

The analytical instrument (SVGC20) was multi-point calibrated for the target analytes on the analysis days. Immediately following this calibration, the instrument was CCV calibrated for Toxaphene and Chlordane. The instrument passed the required Endrin/DDT Breakdown check for inlet reactive sites. All of the calibrated analytes for Column #1 of SVGC20 have %RSD values below 15 percent and were calibrated using an average RF fit curve. All of the CCVs for both columns were either high biased or within acceptable limits, hence the biases did not affect the ability to detect the target analytes. The non-detect results were reported.

Method Blank
The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system for both instruments.

Method Spike (LCS/LCSD)
The LCS and LCSD are within acceptance control limits for both instruments. The precision limit criteria are within acceptance limit criteria for SVG18. The precision limit criteria for Endrin and Endrin Aldehyde are high biased for SVG20 and were assigned the J3 qualifier.

Matrix Spikes (MS/MSD)
For analytical batch WG276537, the QC matrix spiking was performed using GW-8B. All analytes passed the criteria for percent recovery and precision. According to conversations with laboratory personnel, due to an insufficient amount of sample, ESC evaluated precision for analytical batch WG276352 using only the LCS/LCSD. As noted in above in the "Method Spike (LCS/LCSD)" The precision limit criteria for Endrin and Endrin Aldehyde are high biased for SVG20 and were assigned the J3 qualifier.

Surrogates
All Surrogate recovery data for the project samples and associated QC samples are within acceptance limits with the following exceptions:

The TCMX surrogate recoveries were outside the limits for the Method Blanks on both columns. The TCMX surrogate recoveries were outside the limits for GW-9B and GW-11C. The DCB surrogate recoveries were outside the limits on both columns for GW-8C and on Column #1 for the MSD.
Field QC
Sample Duplicate
GW-8B and the Duplicate sample target analytes were all below MDL.

General Notes
There are no additional comments concerning the target analytes for pesticides and the results should be utilized without reservation in project decisions.

Summary of Analysis

The Quality Control data provided in the laboratory report is representative of adequate method accuracy and precision with regard to project objectives. The reported data should be utilized, as flagged in the intended project decision-making processes without reservation.

James Hawkins – Chemist

2/19/2007

~~February 16, 2007~~

Date

Shaw™

Shaw Environmental & Infrastructure, Inc.

Data Validation Report

16406 U.S. Route 224 East • Findlay, Ohio 45840 *Findlay Ohio Office – Applied Sciences*

PROJECT NUMBER:
PROJECT MANAGER: Mark Finney **SAMPLE RECEIPT DATE:** 11/22/2006
PROJECT NAME: Deffenbaugh Industries **LABORATORY SDG:** L270246

The Findlay Applied Sciences Group of Shaw Environmental & Infrastructure, Inc. (Shaw E&I) has performed a QA evaluation of the data report submitted by Environmental Science Corporation (ESC), Mount Juliet, TN. The results are for sixteen (16) samples collected on November 21, 2006. The samples were analyzed for the parameters listed in the Sample Summary Table.

Sample Summary Table

Sample Number	Collection Date	Matrix	Analysis Requested
EPA-R-1 EPA-R-3 GW-1 GW-2R GW-3 GW-4 GW-6A GW-7 GW-11A GW-11B	11/21/2006	Water	Target Metals by 6010B Arsenic by 6020 Mercury by 7470A VOCs (Appendix IX) by 8260B Nitrate and Sulfate by 9056
PW-1 PW-2 PW-3 PW-4 TRENCH EFF RINSE (not on COC)	11/21/2006	Water	VOCs (Appendix IX) by 8260B

All sample preparations and analyses were performed within the required holding times. The coolers were received within the appropriate temperature and the samples were in proper containers with applicable preservatives as indicated in the case narrative of the data report. The following describes the overall QA/QC indicators.

Target Metals Analysis by SW-846 Method 6010B

The samples were digested in QC batch WG276676 on November 24, 2006 and analyzed on November 27-28, 2006 as part of an analytical sequence which began on November 26th.

Instrument Calibration

The data package does not provide the raw Calibration Summary information or data from the ICP instrument (ICP4). However, based upon the ICV and CCV information and the laboratory Case Narrative, the ICP was properly calibrated and in analytical control. The ICP interference corrections were properly established prior to analysis as evidenced by the Interference Check results. The results of the continuing calibration blanks are below the reporting limits. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies

Method Blanks

The LCB results are below reporting limit for all target analytes. This is indicative of proper sample handling and a contaminant free system.

Method Spike

The LCS recoveries are within the established control limits for all reported analytes.

Matrix Spike

QC Matrix spiking and analyses was performed using another client's sample. The recovery and precision measures met criteria except for silver, which demonstrated poor recovery and precision. A post-digestion spike also performed poorly, indicating a difficulty to adequately measure silver levels in the particular sample. Since the LCS recovery met criteria the reviewer does not see a need to qualify the results for silver. A matrix duplicate, using another client sample, met criteria for all detected analytes.

The reported results for target metals should be utilized without qualification.

Arsenic by SW-846 Method 6020

The samples were digested in QC batch WG276670 on November 24, 2006 and analyzed on November 28, 2006.

Instrument Calibration

The data package does not provide the raw Calibration Summary information or data from the ICPMS. The instrument mass axis calibration and peak width data is also not provided for review. However, based upon the ICV and CCV information and the laboratory Case Narrative, the ICPMS was properly calibrated and in analytical control. The results of the continuing calibration blanks are below the reporting limits. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies

Method Blanks

The LCB results are below reporting limit for the target analyte. This is indicative of proper sample handling and a contaminant free system.

Method Spike

The LCS recoveries are within the established control limits for the reported analyte.

Matrix Spike

QC Matrix spiking and analyses was performed using a sample from the SDG EPA-R-3. Recovery and precision measures met criteria. A matrix duplicate, using the same sample, did not contain a reportable level of Arsenic.

The reported results for Arsenic should be utilized without qualification.

Mercury by SW-846 Method 7470A

The samples were extracted and analyzed in QC batch WG277036 on November 28, 2006.

Instrument Calibration

The CVAA instrument was calibrated as part of the analysis run and the resulting calibration curve, using a linear fit meets the method criteria for linear correlation (R2>0.995). The ICV and applicable CCV checks also met criteria. CCBs provided no response for Mercury. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies

Method Blanks

The LCB result is below reporting limit. This is indicative of proper sample handling and a contaminant free system.

Method Spike

The LCS recovery is within the established control limits for all reported analytes.

Matrix Spike

QC Matrix spiking and analyses was performed using another client's sample. The recovery and precision measures met criteria. In addition, a matrix duplicate, using another client sample, also met criteria for all detected analytes.

The reported results for Mercury should be utilized without qualification.

Volatile Organic Compounds (VOC) by SW-846 Method 8260B

The samples were analyzed within hold-time on the dates and QC batches listed below:

Date Analyzed	Sample ID	QC Batch
12-04-06	EPA-R-1	WG277833, WG277846
12-01-06	EPA-R-3 and GW-1	WG277457
12-04-06	GW-2R	WG277833
12-05-06	GW-3	WG277916
12-01-06	GW-4, GW-6, GW-7, GW-11A	WG277485
12-02-06	GW-11B, PW-1, PW-2	WG277485
12-03-06	PW-3, PW-4, Trench, Eff, Rinse	WG277485

Instrument Calibration

All analyses were completed within valid 12-hour BFB tune clocks. The laboratory analyzed the samples and QC on a total of three GC/MS systems. The table below indicates which SDG samples and batch QC were analyzed on each of the three GC/MS systems. Note the data package provides raw data and information for QC batch WG277486, run on VOCMS16. However, the actual data reported for this sample is from VOCMS3 and QC Batch WG277833.

GC/MS System	Initial Calibration Date	QC Batch	SDG Numbers (L270246)	Analysis Date(s)
VOCMS3	11-26-06 App IX 12-04-06	WG277833	01,04	12/4/2006
VOCMS4	11-21-06 App IX 11-29-06	WG277457 WG277485	02,03 06 to 17	11/30-12/1/06 12/1/-12/3/06
VOCMS 9	12-02-06 App IX 11-29-06	WG277916	05	12/5/2006
VOCMS16	12-04-06	WG277846	01-not reported	12/4/2006

All three GC/MS systems were calibrated in accordance with method requirements. The calibrations were performed using two curves or quantitation files. The calibration fit was average RF for any analytes with %RSD values less than 15%. A linear correlation curve fit was utilized for the remaining analytes and in each instance the correlation coefficient was greater than 0.990. The initial calibration was verified using a secondary-source CCV and passed all criteria for the non-Appendix IX analytes. There is no data from a SSCCV for these compounds.

The CCCs analyzed for VOCMS4 on the November 30 to 12/3/2006 runs met criteria for all contained analytes except Chloroethane, Iodomethane, and 1,2,4-Trichlorobenzene. Since the CCC and SPCC criteria were met and the bias was high the data was utilized. Iodomethane failed biased high for VOCMS3 on 12/4/2006. Since this analyte was not reported in any sample no data qualification is warranted. The CCC on VOCMS9 failed with high bias for Iodomethane and since this analyte was not present in the sample analyzed on this instrument no data qualification is necessary. However, this CCC failed with low bias for Bromomethane, MEK, and 2-Chloroethyl vinyl ether. All results for these analytes in sample L270246-05 must therefore be R-flagged. There was no CCC performed for the additional Appendix IX compounds and as such all data for these analytes must be considered screening data at best. This affects all reported results for Allyl chloride, Chloroprene, Isobutanol, Methyl methacrylate, Ethyl methacrylate, Pentachloroethane, and 1,4-Dioxane.

Method Blank

The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system in all four QC batches. Note, the LCB reports do not provide summary data of the additional compounds, including 1,4-dioxane. The reviewer evaluated the raw quantitation reports to determine if these analytes were present in the blanks.

Method Spike

QC Batch WG277457

The LCS recoveries were biased high for Bromomethane, Chloroethane, and trans-1,3-Dichloropropene. Since these analytes were not reported in any sample no data qualification is required. Precision of the LCS/LCSD was also within limits. There is no LCS recovery data for any of the additional analytes, including 1,4-dioxane.

QC Batch WG277833

The LCS and LCSD recoveries were biased high for five analytes; Trichloroflurometh ane, Acrolein, trans-1,3-Dichloropropene, 1,2-Dibromethane (EDB), and trans-1,4-Dichloro-2-butene. Since these analytes were not reported in any sample no data qualification is required. Precision of the LCS/LCSD was also within limits. There is no LCS recovery data for any of the additional analytes, including 1,4-dioxane.

QC Batch WG277916

The LCS and LCSD recoveries were biased high for five analytes; Trichloroflurometh ane, Acrolein, trans-1,3-Dichloropropene, 1,2-Dibromethane (EDB), and trans-1,4-Dichloro-2-butene. Since these analytes were not reported in any sample no data qualification is required. Precision of the LCS/LCSD was also within limits. There is no LCS recovery data for any of the additional analytes, including 1,4-dioxane.

QC Batch WG277485

There were no QC discrepancies for the normal spiked analytes. As in the other QC batches there is no LCS recovery data for any of the additional analytes, including 1,4-dioxane.

Matrix Spikes

Matrix QC was performed for the non-Appendix IX analytes only. Since there is no QC Matrix data for the additional analytes, including 1,4-Dioxane all results must be qualified as screening data only.

The QC Matrix spikes for QC batch WG277833 appear to have not been spiked or reflect a failure of the instrument to properly spike the QC solution. Data acceptance of this batch is based upon LCS/LCSD performance.

A sample from the SDG, EPA-R-3, was utilized for QC Matrix spiking in batch WG277457. All recovery and precision meets objectives except for a high bias in both the MS and MSD for Chloroethane. No data qualification is required.

A sample from another client's site was utilized for matrix spiking in batch WG277916 and as such does not reflect the true effect of the site matrix on recovery. This MS/MSD pair had a high bias for Acrolein and poor recovery performance for Dichloroflurometh ane, Vinyl chloride, and 2-Chloroethyl vinyl ether. In addition, 1,2-dichloroethane was essentially not recovered (1.8%R) in the MS, but well recovered (82%R) in the MSD. Since the data package does not provide the EICP data there is no way to confirm the suspicion, although the reviewer believes the MS integration and/or peak identification was flawed.

For QC batch WG277485 a sample from the SDG (RINSE) was utilized. This sample is not composed of the actual site groundwater matrix. Two analytes, Bromoethane and Chloroethane demonstrated high bias. 2-Chloroethyl vinyl ether was essentially not recovered (0.3/0.6%R) and will be R-flagged in the sample only.

Surrogates

Surrogate performance was within limits for the samples and all associated QC runs.

Internal Standards

All ISTD areas are within the acceptance windows when compared to the Initial Calibration.

The results for the normal listed VOCs should be used with confidence. Results for the additional Appendix IX compounds; including 1,4-dioxane can only be considered as screening data. These qualifications do not affect the usability of the data for trending comparison to past events.

Nitrate and Sulfate by SW-846 Method 9056

The samples were analyzed in QC batch WG276585 on November 22, 2006. The Ion Chromatograph was multi-point calibrated for the target analytes prior to beginning analyses. The calibration fit was linear for all analytes and the correlation coefficients were >0.995 for all compounds. A second source standard CCV passed criteria prior to analysis and any applicable CCVs met limits throughout the analysis sequence.

Batch QC

The Laboratory Blank contained no target analytes. The LCS and LCSD recoveries were within limits as was the precision of the LCSD. The MS/MSD was performed using sample EPA-R-3, from the SDG. Recovery and precision met limits for nitrate. Recovery was slightly below acceptance limits for sulfate, due to the large concentration in the native sample, which was approximately 4X the spike concentration. A sample duplicate was analyzed for sample GW-1 and yielded acceptable precision for the only detected analyte, sulfate.

Results for nitrate and sulfate should be utilized without qualification,

Summary of Analysis

The Quality Control data provided in the laboratory report is representative of adequate method accuracy and precision with regard to project objectives. The reported data should be utilized, as qualified in this memo and the project data spreadsheets, in the intended project decision-making processes without reservation.

Guy Gallello, Jr. – QA/QC Chemist

2/19/2007
Date

Shaw™

Shaw Environmental & Infrastructure, Inc.

Data Validation Report

16406 U.S. Route 224 East • Findlay, Ohio 45840 *Findlay Ohio Office – Applied Sciences*

PROJECT NUMBER:
PROJECT MANAGER: Mark Finney **SAMPLE RECEIPT DATE:** 11/22/2006
PROJECT NAME: Deffenbaugh Industries **LABORATORY SDG:** L270164

The Findlay Applied Sciences Group of Shaw Environmental & Infrastructure, Inc. (Shaw E&I) has performed a QA evaluation of the data report submitted by Environmental Science Corporation (ESC), Mount Juliet, TN. The results are for one (1) well sample collected on November 21, 2006. The sample was analyzed for the parameters listed in the Sample Summary Table.

Sample Summary Table

Sample Number	Collection Date	Matrix	Analysis Requested
GW-6B	11/21/2006	Water	Target Metals by 6010B Arsenic and Thallium by 6020 Mercury by 7470A VOCs (Appendix IX) by 8260B SVOCs (Appendix IX) by 8270C Pesticides by 8081A PCBs by 8082 Herbicides by 8151 Cyanide by 9012 Nitrate and Sulfate by 9056 Sulfide by EPA 376.2

All sample preparations and analyses were performed within the required holding times. The cooler was received within the appropriate temperature and the sample was in proper containers with applicable preservatives as indicated in the case narrative of the data report. The following describes the overall QA/QC indicators.

Target Metals Analysis by SW-846 Method 6010B

The sample was extracted in QC batch WG277011 on November 27, 2006 and analyzed on November 28, 2006 as part of an analytical sequence which began on November 27th.

Instrument Calibration

The data package does not provide the raw Calibration Summary information or data from the ICP instrument (ICP5). However, based upon the ICV and CCV information and the laboratory Case Narrative, the ICP was properly calibrated and in analytical control. The ICP interference corrections were properly established prior to analysis as evidenced by the Interference Check results. The results of the continuing calibration blanks are below

the reporting limits. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies

Method Blanks

The LCB results are below reporting limit for all target analytes. This is indicative of proper sample handling and a contaminant free system.

Method Spike

The LCS recoveries are within the established control limits for all reported analytes.

Matrix Spike

QC Matrix spiking and analyses was performed using another client's sample. The recovery and precision measures met criteria. In addition, a matrix dupolicate, using another client sample, also met criteria for all detected analytes.

The reported results for target metals should be utilized without qualification.

Arsenic and Thallium by SW-846 Method 6020

The sample was extracted in QC batch WG2766011 on November 22, 2006 and analyzed on November 27, 2006. This sample was extracted and analyzed with other samples from the project site.

Instrument Calibration

The data package does not provide the raw Calibration Summary information or data from the ICPMS. The instrument mass axis calibration and peak width data is also not provided for review. However, based upon the ICV and CCV information and the laboratory Case Narrative, the ICPMS was properly calibrated and in analytical control. The results of the continuing calibration blanks are below the reporting limits. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies

Method Blanks

The LCB results are below reporting limit for the target analytes. This is indicative of proper sample handling and a contaminant free system.

Method Spike

The LCS recoveries are within the established control limits for the reported analytes.

Matrix Spike

QC Matrix spiking and analyses was performed using a sample from the project site GW-8B submitted in another SDG. Recovery and precision measures met criteria. In addition, a matrix duplicate, using the same sample, also met criteria for the one detected analyte, Arsenic..

The reported results for Arsenic and Thallium should be utilized without qualification.

Mercury by SW-846 Method 7470A

The sample was extracted and analyzed in QC batch WG277036 on November 28, 2006.

Instrument Calibration

The CVAA instrument was calibrated as part of the analysis run and the resulting calibration curve, using a linear fit meets the method criteria for linear correlation (R2>0.995). The ICV and applicable CCV checks also met criteria. CCBs provided no response for Mercury. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies

Method Blanks

The LCB result is below reporting limit. This is indicative of proper sample handling and a contaminant free system.

Method Spike

The LCS recovery is within the established control limits for all reported analytes.

Matrix Spike

QC Matrix spiking and analyses was performed using another client's sample. The recovery and precision measures met criteria. In addition, a matrix duplicate, using another client sample, also met criteria for all detected analytes.

The reported results for Mercury should be utilized without qualification.

PCBs by SW-846 Method 8082

The sample was extracted in QC batch WG276537 on November 23, 2006 and analyzed on November 28, 2006.

Instrument Calibration

The analytical system (SVGC18) was multi-point calibrated for two Arochlor mixtures (1016 and 1260) and single-point response calibrated for all other Arochlors. The calibration fit was by average RF and all selected peaks met the percent RSD criteria of <20%. The laboratory also analyzed a PQL standard and all peaks utilized for PCB quantitation and identification were detected. A separate source calibration check (ICV) met criteria. All reported analyses were bracketed by acceptable CCV runs

Method Blank

The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system.

Method Spike

The LCS and LCS Duplicate recovery are within acceptance limits for the spiked Arochlor mixture-1260. Precision is also within criteria

Matrix Spikes

QC Matrix spiking and analysis was performed using a sample from the project site (GW-8B), submitted in another SDG. The recovery and precision measures were within acceptance limits.

Surrogates

One of two surrogates was recovered below acceptance limits in the LCB, MS, and MSD analyses. All other surrogate recovery data for the project samples and associated QC samples is within acceptance limits. Since surrogates are essentially an indicator of matrix influence on the ability to recover compounds similar to the target analytes, the acceptable recoveries in the LCS and the sample justify data usability.

The results for PCBs should be utilized without reservation in project decisions.

Chlorinated Pesticides by SW-846 Method 8081A

The sample was extracted in QC batch WG276537 on November 23, 2006 and analyzed on November 29, 2006.

Instrument Calibration

The analytical system (SVGC18) was multi-point calibrated for the target analytes on the analysis day. Prior to this calibration the instrument passed the required Endrin/DDT break-down check for inlet reactive sites. All of the calibrated analytes had RSD values below 15 percent and were calibrated using and average RF fit. Toxaphene was single-point calibrated, for pattern recognition purposes. A second source check standard met all criteria immediately following the calibration. The CCV just prior to the sample run failed the +/-15% criteria for two analytes (delta-BHC and Endrin aldehyde). However, since the bias was high and therefore would not affect the ability to detect these compounds, the non-detect results were reported.

Method Blank

The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system.

Method Spike

The LCS and LCS Duplicate recovery are within acceptance limits for the target analytes. Precision is also within criteria

Matrix Spikes

QC Matrix spiking was performed with GW-8B, a sample from SDG L269960, which was from the project site. All analytes passed the criteria for both recovery and precision.

Surrogates

One of two surrogates was recovered below acceptance limits in the LCB, MS, and MSD analyses. All other surrogate recovery data for the project samples and associated QC samples is within acceptance limits. Since surrogates are essentially an indicator of matrix influence on the ability to recover compounds similar to the target analytes, the acceptable recoveries in the LCS and the sample justify data usability.

The results for chlorinated pesticides should be utilized without reservation in project decisions.

Chlorinated Herbicides by SW-846 Method 8151

The sample was extracted in QC batch WG276609 on November 23, 2006 and analyzed on November 26, 2006.

Instrument Calibration

The analytical system (SVGC11) was multi-point calibrated for the target analytes. All compounds with percent RSD values below 15 percent were calibrated using and average RF fit. Analytes with RSD percentages greater than 15 were calibrated using a linear fit. For each of these the correlation coefficient (R2) was above 0.995, indicating acceptable linearity of the curve. The laboratory also analyzed a PQL standard and all target analytes were detected. A separate source calibration- check (ICV) met criteria. All reported analyses were bracketed by acceptable CCV runs

Method Blank

The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system.

Method Spike

The LCS and LCS Duplicate recovery are within acceptance limits for the target analytes. Precision is also within criteria

Matrix Spikes

No QC Matrix spiking or analysis was performed for this QC batch.

Surrogates

All surrogate recoveries were within acceptance limits in the sample and associated QC runs

The results for herbicides should be utilized without reservation in project decisions.

Volatile Organic Compounds (VOC) by SW-846 Method 8260B

The sample was analyzed within hold-time on December 3, 2006 in QC batch WG277708.

Instrument Calibration

All analyses were completed within valid 12-hour BFB tune clocks. The GC/MS system; VOCMS9 was calibrated in accordance with method requirements. The calibration was performed on November 29, 2006 using two curves or quantitation files. The additional Appendix IX analytes were initially calibrated on November 29, 2006 and not updated, including for retention times prior to the sample analysis. The general VOC calibration files were acquired on November 29th, but the quant file was not updated until December 2, 2006. The calibration fit was average RF for any analytes with %RSD values less than 15%. A linear correlation curve fit was utilized for the remaining analytes. All analytes except Dichlorodifluoromethane produced linear calibration fits meeting the criteria for correlation coefficient (R^2) of >0.995. Results for this analyte should be flagged as estimated. Since it was not detected in the sample this does not effect the data. The initial calibration was verified using a secondary-source CCV and passed all criteria for the non-Appendix IX analytes. There is no data from a SSCCV for these compounds.

The CCC analyzed on December 2, 2006 met criteria for all contained analytes except Bromomethane, Iodomethane and Vinyl acetate. Since the CCC and SPCC criteria were met analysis proceeded. All positive reported results for

these analytes should be flagged as estimated. There was no CCC performed for the additional Appendix IX compounds and as such all data for these analytes must be considered screening data at best. This affects all reported results for Allyl chloride, Chloroprene, Isobutanol, Methyl methacrylate, Ethyl methacrylate, Pentachloroethane, and 1,4-Dioxane.

Method Blank

The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system.

Method Spike

The LCS recoveries were within the acceptance limits for all analytes. In the LCSD recoveries were just outside of the limits for Chloromethane and Acrolein. Since the average recovery is within limits no data qualification is necessary. Precision of the LCS/LCSD was also within limits.

Matrix Spikes

Matrix QC for the non-Appendix IX analytes only, was performed on sample GW-6B. Several analytes had recoveries just below the acceptance limits in the MS, with these same compounds recovering within limits in the MSD. The MS/MSD precision was outside the acceptance range for most analytes, with the MSD recoveries being markedly higher that those of the MS. The data does demonstrate an ability to recover the target analytes for the sample. However, due to the poor precision in several analytes the laboratory correctly J-flagged most results as "estimated". Since there is no QC Matrix data for the additional analytes, including 1,4-Dioxane all results must be qualified as screening data only.

Surrogates

Surrogate performance was within limits for the sample and all associated QC runs.

Internal Standards

All ISTD areas are within the acceptance windows when compared to the Initial Calibration.

The results for VOCs should be used with caution as the J-flagging is justified and signifies that the data is estimated. All results for the additional Appendix IX compounds can only be considered as screening data. These qualifications do not affect the usability of the data for trending comparison to past events.

Semi-volatile Organic Compounds (SVOC) by SW-846 Method 8270C

The sample was extracted as part of QC Batch WG276847 within the seven day hold-time on November 27, 2006. Analysis was performed on two different days (November 28th and December 5th).

Instrument Calibration

All analyses were completed within valid 12-hour DFTPP tune clocks. The GC/MS systems; BNAMS1, BNAMS4, and BNMS9 used to perform the analyses were calibrated in accordance with method requirements. Each instrument was calibrated for the standard 8270C list. BNAMS1 was also calibrated for additional compounds, including the Appendix IX analytes. The calibration of the additional analytes was initially performed on September 26, 2006. BNAMS4 used to analyze the normal 8270 analyte list in the sample was initially calibrated on November 27, 2006. BNAMS9, used to report the batch QC was initially calibrated on November 27, 2006. The calibrations for all three instruments were performed using a minimum of five points and for each analyte with percent RSD values greater than twenty-percent a linear or quadratic fit curve was utilized. In these instances the correlation coefficients met the minimum criteria of 0.990. A second-source check standard was analyzed for the normal 8270 analyte list and met acceptance criteria for all analytes.

The batch QC and sample were first analyzed on BNAMS4 on November 28, 2006 to determine the normal 8270 analyte list and pertinent QC. The GC/MS was calibration checked for the normal 8270 list of analytes prior to analysis and passed all method and/or laboratory criteria. The batch QC was also analyzed on BNAMS9 on November 29, 2006. Again, the calibration check passed all criteria for the normal 8270 analyte list.

The additional and Appendix IX analytes were determined using BNAMS1 on December 5, 2006. There was no calibration check performed for the additional analytes prior to the analysis. The instrument was calibration checked for the normal list of 8270 analytes and passed all criteria. The batch LCB was analyzed on the instrument to verify the absence of the additional analytes. The LCS was not analyzed as it did not contain any of the additional analytes. The initial calibration was verified using a secondary-source CCV and passed all criteria for the non-Appendix IX analytes. There is no data from a SSCCV for these compounds.

Method Blank

The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system. This includes the additional and Appendix IX compounds

Method Spike

The LCS recoveries were within the acceptance limits for all analytes except Bis(2-chloroethyl)ether, Hexachloroethane, Acetophenone, and Napthalene. LCSD recoveries were within range for all spiked analytes and in each instance where the LCS failed criteria the average of the LCS and LCSD was within limits. There are two analytes (Hexachloroethane and Acetophenone) for which the RPD is high. Neither of these compounds was detected in the sample, resulting in no detrimental affect to data usability. The additional Appendix IX analytes were not spiked into the LCS/LCSD. Therefore, no QC batch-specific indicator of accuracy for these analytes is available. As such, the reported results can only be considered as "screening" data.

Matrix Spikes

No QC Matrix was performed for this analytical batch. Others

Surrogates

Surrogate performance was within limits for the sample and all associated QC runs.

Internal Standards

All ISTD areas are within the acceptance windows when compared to the Initial Calibration.

The results for SVOCs should be used with confidence excepting that all results for the additional Appendix IX compounds can only be considered as screening data. These qualifications do not affect the usability of the data for trending comparison to past events.

Nitrate and Sulfate by SW-846 Method 9056

The sample was analyzed in QC batch WG276491 on November 22, 2006. The Ion Chromatograph was multi-point calibrated for the target analytes prior to beginning analyses. The calibration fit was linear for all analytes and the correlation coefficients were >0.995 for all compounds. A second source standard CCV passed criteria prior to analysis and any applicable CCVs met limits throughout the analysis sequence.

Batch QC

The Laboratory Blank contained no target analytes. The LCS and LCSD recoveries were within limits as was the precision of the LCSD. The MS/MSD pair was performed on a sample from another client site and met all criteria for recovery and precision. A site sample (GW-8B) from another SDG was utilized for a sample duplicate, and, yielded acceptable precision.

Results for nitrate and sulfate should be utilized without qualification,

Cyanide in Water by SW-846 9012

The sample was extracted on November 27, 2006 in QC batch WG277005 and analyzed on instrument KONE2 on November 29, 2006. The instrument was multi-point calibrated prior to beginning analyses using a linear fit curve which met the >0.995 criteria for correlation coefficient as well as the accuracy check using an alternate source standard. All applicable CCVs were within limits.

Batch QC

The Laboratory Blank contained no target analytes. The LCS and LCSD recoveries were within limits as was the precision of the LCSD. The MS/MSD was performed using sample GW-8B, from another SDG and met all criteria for recovery and precision. A sample from another client site was utilized for the sample duplicate, and, yielded acceptable precision.

Results for cyanide should be utilized without qualification,

Sulfide in Water by EPA Method 376.2

The sample was extracted on November 26, 2006 in QC batch WG276870 and analyzed on instrument HACH 4000 on November 27, 2006. The instrument was multi-point calibrated prior to beginning analyses using a linear fit curve which met the >0.995 criteria for correlation coefficient as well as the accuracy check using an alternate source standard. All applicable CCVs were within limits.

Batch QC

The Laboratory Blank contained no target analytes. The LCS and LCSD recoveries were within limits as was the precision of the LCSD. The MS/MSD was performed using sample GW-8B, from another SDG and met all criteria for recovery and precision. A sample from another client site was utilized for the sample duplicate, and, yielded acceptable precision.

Results for sulfide should be utilized without qualification,

Summary of Analysis

The Quality Control data provided in the laboratory report is representative of adequate method accuracy and precision with regard to project objectives. The reported data should be utilized, as qualified in this memo and the project data spreadsheets, in the intended project decision-making processes without reservation.

Guy Gallello, Jr. – QA/QC Chemist

2/12/2008
Date

ATTACHMENT 1
Surrogate Summary

Lab ID	Field ID	DF	Analyzed	Dibromofluoromethane	Toluene-d8	Bromofluorobenzene
L270246-01	EPA-R-1	1x	12/04/06	92	91	123
L270246-02	EPA-R-3	1x	12/01/06	73	81	88
L270246-03	GW-1	1x	12/01/06	74	81	92
L270246-04	GW-2R	1x	12/04/06	106	96	114
L270246-05	GW-3	1x	12/05/06	81	90	91
L270246-06	GW-4	1x	12/01/06	73	79	94
L270246-07	GW-6A	1x	12/01/06	71	80	95
L270246-08	GW-7	1x	12/01/06	75	81	91
L270246-09	GW-11A	1x	12/01/06	75	82	96
L270246-10	GW-11B	1x	12/02/06	76	81	93
L270246-11	PW-1	1x	12/02/06	76	80	93
L270246-12	PW-2	1x	12/02/06	76	79	90
L270246-13	PW-3	1x	03/17/00	77	82	91
L270246-14	PW-4	1x	12/03/06	74	82	93
L270246-15	TRENCH	1x	12/03/06	78	81	93
L270246-16	EFF	1x	12/03/06	75	82	95
L270246-17	RINSE	1x	12/03/06	76	81	94
L270164-01	GW-6B	1x	12/03/06	86	85	89
L269960-01	GW-8A	1x	11/29/06	80	85	95
L269960-02	GW-8B	1x	11/30/06	83	82	95
L269960-03	GW-8C	1x	11/30/06	84	81	98
L269960-04	GW-9A	1x	12/01/06	76	81	90
L269960-05	GW-9B	1x	12/01/06	75	82	90
L269960-06	GW-10A	1x	12/01/06	70	84	89
L269960-07	GW-10B	1x	12/01/06	74	83	89
L269960-08	GW-10C	1x	12/01/06	70	82	90
L269960-09	GW-11C	1x	11/30/06	110	94	93
L269960-10	DUP (GW-8B)	1x	11/30/06	119	94	92
L269960-11	GW-12A	1x	11/30/06	119	96	88
L269960-12	GW-12B	1x	11/30/06	123	97	89
L269960-13	GW-12C	1x	11/30/06	120	95	86
L269960-14	TRIP BLANK	1x	11/30/06	109	95	97
Out of QC Limit				0	0	0
			Lower QC Limit	68	76	79
			Upper QC Limit	128	115	127
Field sample summary (not including dilutions or QC)						
			Average of Field samples	85	85	94
			RSD of Field samples	19.9	7.1	7.7

Qualifications to data

Lab ID	Field ID	DF	Analyzed	Compound	Qualification

No qualification of data is required based upon surrogate recoveries.

ATTACHMENT 1
Blank Summary

Detected in Lab Blanks		QAPP R.L.
Date Sampled		
Date Analyzed		
Constituent	CAS No.	(ug/L)
None Detected		

Notes
No constituents found above QAPP RL.
Several analyte detection limits were not met. Refer to the Calibration Summary for details.

Detected in Field Blanks			Rinse Blank	Trip Blank
			L241264-11	L241264-12
Date Sampled		QAPP	04/13/06	04/13/06
Date Analyzed		R.L.	04/23/06	04/21/06
Constituent	CAS No.	(ug/L)	(ug/L)	(ug/L)

No analytes detected in samples

ATTACHMENT 1
Duplicate Summary

Detected in duplicate		QAPP	Field	GW-10B	DUPLICATE	
		R.L.	Lab	L269960-07	L269960-10	
			Received	11/21/06	11/21/06	
			Analyzed	11/28/06	11/28/06	RPD
Constituent	CAS No.	(ug/L)	Units	(ug/L)	(ug/L)	%
No analytes detected						

ATTACHMENT 1
LCS&LCSD Summary

Analytes Outside Laboratory Established Limits

Batch WG277916

12/5/2006 analysis Constituent	Spike Added	LCS Recovery	LCSD Recovery	Lab Recovery Limits	LCS/LCSD RPD	LCS/LCSD Limits	Within Project Defined Limits, 70-130% , Lab limits or 30% F	
Chloromethane	50	50	45	45 # 131	12	22	YES-RPD	no qual ave
Acrolein	250	**155**	**136**	27 122	13	13	YES-RPD	

Batch WG277457

11/30/2006 analysis Constituent	Spike Added	LCS Recovery	LCSD Recovery	Recovery Limits	LCS/LCSD RPD	RPD Limits	Within Project Defined Limits, 70-130% , Lab limits or 30% F	
Bromomethane	50	118	**134**	30 - 125	13.0	21	YES-RPD	
Chloroethane	50	146.0	**170.0**	43 146	15.0	24	YES-RPD	
trans-1,3-Dichloropropene	50	107	**120.0**	55 113	11.0	18	YES-RPD	

Batch WG277833

12/04/2006 analysis Constituent	Spike Added	LCS Recovery	LCSD Recovery	Recovery Limits	LCS/LCSD RPD	RPD Limits	Within Project Defined Limits, 70-130%, Lab Limits, or 30%	
Trichlorofluromethane	50	**130**	**124**	49 - 121	4.4	19	YES-RPD	
Acrolein	250	**184.0**	**181.0**	27 122	1.2	13	YES-RPD	
trans-1,3-Dichloropropene	50	**125**	**123.0**	55 113	1.0	18	YES-RPD	
1,2-Dibromoethane	50	**132.0**	**131.0**	70 122	0.7	16	YES-RPD	
trans-1,4-Dichloro-2-butene	50	**173.0**	**175.0**	57 154	1.3	20	YES-RPD	

Batch WG277485

12/01/2006 analysis Constituent	Spike Added	LCS Recovery	LCSD Recovery	Recovery Limits	LCS/LCSD RPD	RPD Limits	Within Project Defined Limits, 70-130%, Lab Limits, or 30%	
No analytes out of limits								

Batch WG277403

11/30/2006 analysis Constituent	Spike Added	LCS Recovery	LCSD Recovery	Recovery Limits	LCS/LCSD RPD	RPD Limits	Within Project Defined Limits, 70-130%, Lab Limits, or 30%	
Chloromethane	50	**44**	**45**	45 131	2.3	22	YES-RPD	no qual-ave
Vinyl chloride	50	**39**	**40.4**	46 133	2.7	25	YES-RPD	UJ for DUI
2-Chloroethyl vinyl ether	50	**134**	**150**	36 136	11	28	YES-RPD	
trans-1,4-Dichloro-2-butene	50	**147.0**	**168.0**	57 154	1.3	20	YES-RPD	

Batch WG277708

12/03/2006 analysis Constituent	Spike Added	LCS Recovery	LCSD Recovery	Recovery Limits	LCS/LCSD RPD	RPD Limits	Within Project Defined Limits, 70-130%, Lab Limits, or 30%	
Chloromethane	50	48.4	**43.8**	45 131	9.9	22	YES-RPD	no qual-ave
Acrolein	250	120	**128**	27 122	6.2	13	YES-RPD	

ATTACHMENT 1
MS&MSD Summary

Analytes Outside Limits

Batch WG277916	**L270882-20 is not a site sample**							
12/05/2005 analysis	Spike	MS	MSD	Recovery		MS/MSD	MS/MSD	MS/MSD
Constituent	added	Recovery	Recovery	Limits		RPD	Limits	Defined Limits 70-130%, Lab Limits, or 30% RPD
Dichlorodifluromethene	50	**18.5**	**24.6**	26	153	**28**	25	YES-RPD
Vinyl chloride	50	**37.5**	49.1	44	132	**27**	24	YES-RPD
Acrolein	250	**135.0**	128	25 -	128	5.5	15	YES-RPD
1,2-Dichloroethane	50	**1.8**	**82**	54	145	**192**	21	NO
2-Chloroethy vinyl ether	250	**22.0**	**19.3**	28	148	13	18	YES-RPD

Batch WG277457	**L269960-02**		**EPA-R-3**					
11/30/2006 analysis	Spike	MS	MSD	Recovery		MS/MSD	MS/MSD	MS/MSD
Constituent	added	Recovery	Recovery	Limits		RPD	Limits	Defined Limits 70-130%, Lab Limits, or 30% RPD
Chloroethane	50	**165**	**157**	38 -	153	5.1	25	YES-RPD

Batch WG277485	**L270246-17**		**RINSE**					
12/01/2006 analysis	Spike	MS	MSD	Recovery		MS/MSD	MS/MSD	MS/MSD
Constituent	added	Recovery	Recovery	Limits		RPD	Limits	Defined Limits 70-130%, Lab Limits, or 30% RPD
Bromomethane	50	116	**133**	23	131	13	24	YES-RPD
Chloroethane	50	**157**	**163**	38	153	3.8	25	YES-RPD
2-Chloroethyl vinyl ether	250	**0.3**	0.6	28	148	**50**	18	YES-RPD UR for RINSE only

Batch WG277833	**L270882-26**		**not a site sample**					
12/01/2006 analysis	Spike	MS	MSD	Recovery		MS/MSD	MS/MSD	MS/MSD
Constituent	added	Recovery	Recovery	Limits		RPD	Limits	Defined Limits 70-130%, Lab Limits, or 30% RPD

Fails for all analytes- appears to have not been spiked

Batch WG277403	**L270178-05**		**not a site sample**					
11/30/2006 analysis	Spike	MS	MSD	Recovery		MS/MSD	MS/MSD	MS/MSD
Constituent	added	Recovery	Recovery	Limits		RPD	Limits	Defined Limits 70-130%, Lab Limits, or 30% RPD
cis-1,2-Dichloroethene	50	**-87.4**	**-262**	64	126	5.3	18	YES-RPD sample contains 1740
2-Butanone (MEK)	250	**171**	**182**	47	133	6.1	22	YES-RPD
2-Chloroethy vinyl ether	250	146.0	**158**	28	148	8.2	18	YES-RPD
trans-1,4-Dichloro-2-butene	50	**165**	**175**	48	150	6.1	24	YES-RPD

ATTACHMENT 1
Validation Qualifications

Field ID	Lab ID	Constituent	Lab Report	Validation Change	Reason
See "Validation Results - ND for reporting limit failures					
See Calibration Summary for qualification due to continuing calibration check failure.					
See Blank Summary for qualifications related to reporting limits					
See Duplicate Summary for qualifications related to High RPD values					

ATTACHMENT 1
Validated Results-detects

Constituent	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field	GW-6B	EPA-R-1	GW-3	GW-4	GW-11B	PW-2	PW-3	TRENCH	EFF	GW-8B	GW-8C	GW-9B	GW-10C	GW-11C	GW-12A
						Lab	L270164-01	L270246-01	L270246-05	L270246-06	L270246-10	L270246-12	L270246-13	L270246-15	L270246-16	L269960-02	L269960-03	L269960-05	L269960-08	L269960-09	L269960-11
						Received	11/22/2006	11/22/2006	11/22/2006	11/22/2006	11/22/2006	11/22/2006	11/22/2006	11/22/2006	11/22/2006	11/22/2006				11/21/2006	11/21/2006
						Analyzed	12/3/2006	12/3/2006	12/5/2006	12/1/2006	12/1/2006	1/1/1900	11/30/2006	12/1/2006	12/1/2006	11/30/2006	11/30/2006	12/1/2006	12/1/2006	11/30/2006	11/30/2006
Constituent	CAS No.	PRG (ug/L)	MCL (ug/L)	C (ug/L)	R.L. (ug/L)	Units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Acetone	67-64-1	610			25		<50	<50UJ	270	<50UJ	<50UJ	<50	<50	<50	<50	<50	<50	<50	<50	<50UJ	<50UJ
Acrolein (Propenal)	107-02-8	0.04			50		<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ
Acrylonitrile	107-13-1	0.039		0.06	10		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Allyl chloride	107-05-1	1800			50		<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ
Benzene	71-43-2	0.34	5	5	10		<1.0UJ	42	110	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	108-86-1						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	74-97-5						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	75-27-4	0.18		80	10		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	8.5		80	1.0		<1.0	<1.0UR	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	74-83-9	8.7			1.0		<1.0UJ	<1.0	<1.0UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	78-93-3	1900			10		<50	<50UR	<50UJ	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
n-Butylbenzene	104-51-8						<1.0	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0UJ	<1.0UJ
sec-Butylbenzene	135-98-8						<1.0	2.8	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	98-06-6						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	1000			1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	56-23-5	0.077	5	5	10		<1.0UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	110		100	1.0		<1.0	5.7	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	0.18		80	10		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	4.6			1.0		<1.0	<1.0	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.2	<1.0
2-Chloroethyl vinyl ether	110-75-8						<10UJ	<10UR	<10UJ	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	67-66-3	6.2		80	5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	74-87-3	1.5			1.0		<1.0UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	95-49-8						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	106-43-4						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	96-12-8	0.048	0.2	0.2	20		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	106-93-4	0.00076			1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	74-95-3				1.0		<1.0UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	95-50-1	370		600	1.0		<1.0	5.6	5.3	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	541-73-1	5.5			1.0		<1.0	<1.0	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	106-46-7	0.5	75	75	10		<1.0	1.1	19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	110-57-6				1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	390			1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	75-34-3	810			1.0		1.7	10	1.2	<1.0	2.8	<1.0	<1.0	1.3	<1.0	1.2	7.5	<1.0	<1.0	21	<1.0
1,2-Dichloroethane	107-06-2	0.12	5	5	10		<1.0UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4				1.0		<1.0UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0
cis-1,2-Dichloroethene	156-59-2	61		70	1.0		7.7	7.2	<1.0	<1.0	12	<1.0	<1.0	<1.0	2.8	<1.0	4.7	1.6	<1.0	56	8.3
trans-1,2-Dichloroethene	156-60-5	120		100	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	0.16	5	5	10		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane							<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane							<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene							<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	10061-01-5				1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	10061-02-6				1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Di-isopropyl ether	108-20-3						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	123-91-1	6.1		3	100		<100UJ	<100UJ	140J	<100UJ	310J	<100UJ	130J	450J	<100UJ	<100UJ	120J	<100UJ	210J	1900J	<100UJ
Ethylbenzene	100-41-4	2.9		700	1.0		<1.0	47	<1.0	5.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl methacrylate	97-63-2	550			5.0		<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ	<5.0UJ
Hexachlorobutadiene	87-68-3						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0UJ	<1.0UJ
2-Hexanone	591-78-6				10		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Iodomethane	74-88-4				1.0		<50UJ	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Isopropylbenzene	98-82-8						<1.0	5.6	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	99-87-6						<1.0	4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methacrylonitrile	126-98-7	1			50		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Methylene chloride	75-09-2	4.3	5	5	5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl methacrylate	80-62-6	1400			50		<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ
4-Methyl-2-pentanone (MIBK)	108-10-1	160			10		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Methyl tert-butyl ether (MTBE)	1634-04-4						<1.0	5.9	5	1.3	8.3	1.0J	11J	6.9J	3.8	<1.0	<1.0	<1.0	2.5	15	<1.0
Naphthalene	91-20-3						<5.0	130	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachloroethane	76-01-7				50		<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ	<50UJ
Propionitrile (ethyl cyanide)	107-12-0				50		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
n-Propylbenzene	103-65-1						<1.0	9.4	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	100-42-5	1600		100	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	0.17		0.3	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	630-20-6	0.052		70	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	0.68	5	5	10		<1.0UJ	3.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	108-88-3	720		150	1.0		<5.0UJ	140	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	87-61-6						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	3200		200	1.0		<1.0UJ	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	0.2	5	5	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	79-01-6	0.028	5	5	1.0		<1.0	1.3	<1.0	<1.0	3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	96-18-4				1.0		<1.0	7J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	75-69-4	1300			1.0		<1.0UJ	<1.0	<1.0	<1.0UJ	<1.0UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6						<1.0	130	8.9	4.2J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8						<1.0	38	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.02	2	2	1.0		<1.0UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	3.5	32J	<1.0UJ
Total xylenes	1330-20-7	210		320	3.0		<3.0	630	40	210J	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Positive Detection
Result above MCL or State GTARC
Result above Region 9 PRG
Result above MCL or State GTARC and Region 9 PRG
Unable to meet Region 9 or GTARC criteria due to instrument limitations
Unable to obtain detection limit by current method setup. Refer to analyte by isotope dilution

ATTACHMENT 1
Validated Results-ND

Constituent	CAS No.	Region 9 PRG ug/l	MCL ug/l	State GTARC ug/l	QAPP R.L. ug/l	Field Lab Received Analyzed Units	EPA-R-3 L270246-02 11/22/2006 12/1/2006 ug/l	GW-1 L270246-03 11/22/2006 12/1/2006 ug/l	GW-2R L270246-04 11/22/2006 12/4/2006 ug/l
Acetone	67-64-1	610			25		< 50UJ	< 50UJ	< 50Uj
Acrolein (Propenal)	107-02-8	0.042			50		< 50UJ	< 50UJ	< 50UJ
Acrylonitrile	107-13-1	0.039		0.06	50		< 50	< 50	< 50
Allyl chloride	107-05-1	1800			50		<50UJ	<50UJ	<50UJ
Benzene	71-43-2	0.34	5	5	1.0		< 1.0	< 1.0	< 1.0
Bromobenzene	108-86-1				1.0		< 1.0	< 1.0	< 1.0
Bromochloromethane	75-27-4				1.0		< 1.0	< 1.0	< 1.0
Bromodichloromethane	75-27-4	0.18		80	1.0		< 1.0	< 1.0	< 1.0
Bromoform	75-25-2	8.5		80	1.0		< 1.0	< 1.0	< 1.0
Bromomethane	74-83-9	8.7			1.0		< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	78-93-3	1900			50		< 50	< 50	< 50
n-Butylbenzene	104-51-8				1.0		< 1.0	< 1.0	< 1.0
sec-Butylbenzene	135-9-88				1.0		< 1.0	< 1.0	< 1.0
tert-Butylbenzene	98-06-6				1.0		< 1.0	< 1.0	< 1.0
Carbon disulfide	75-15-0	1000			1.0		< 1.0	< 1.0	< 1.0
Carbon tetrachloride	56-23-5	0.17	5	5	1.0		< 1.0	< 1.0	< 1.0
Chlorobenzene	108-90-7	110		100	1.0		< 1.0	< 1.0	< 1.0
Chlorodibromomethane	124-48-1	0.18		80	1.0		< 1.0	< 1.0	< 1.0
Chloroethane	75-00-3	4.6			1.0		< 1.0	< 1.0	< 1.0
2-Chloroethyl vinyl ether							< 10	< 10	< 10
Chloroform	67-66-3	6.2		80	5.0		< 5.0	< 5.0	< 5.0
Chloromethane	74-87-3	1.5			1.0		< 1.0	< 1.0	< 1.0
2-Chlorotoluene	95-49-8				1.0		< 1.0	< 1.0	< 1.0
4-Chlorotoluene					1.0		< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	96-12-8	0.048	0.2	0.2	1.0		< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	106-93-4	0.00076			1.0		< 1.0	< 1.0	< 1.0
Dibromomethane	74-95-3				1.0		< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	95-50-1	370		600	1.0		< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	541-73-1	5.5			1.0		< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	106-46-7	0.5	75	75	1.0		< 1.0	< 1.0	< 1.0
trans-1,4-Dichloro-2-butene	110-57-6				1.0		< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	75-71-8	390			1.0		< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	75-34-3	810			1.0		< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	107-06-2	0.12	5	5	1.0		< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	75-35-4			7	1.0		< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	156-59-2	61		70	1.0		< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	156-60-5	120		100	1.0		< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	78-87-5	0.16	5	5	1.0		< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					1.0		< 1.0	< 1.0	< 1.0
2,2-Dichloropropane					1.0		< 1.0	< 1.0	< 1.0
1,1-Dichloropropene					1.0		< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	10061-01-5			0.4	1.0		< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	10061-02-6			0.4	1.0		< 1.0	< 1.0	< 1.0
Di-isopropyl ether					1.0		< 1.0	< 1.0	< 1.0
1,4-Dioxane	123-91-1	6.1		3	100		<100UJ	<100UJ	<100UJ
Ethylbenzene	100-41-4	2.9		700	1.0		< 1.0	< 1.0	< 1.0
Ethyl methacrylate	97-63-2	550			5.0		< 5.0UJ	< 5.0UJ	< 5.0UJ
Hexachlorobutadiene	87-68-3			1	1.0		< 1.0	< 1.0	< 1.0
2-Hexanone	591-78-6				50		< 50	< 50	< 50
Iodomethane	74-88-4				1.0		< 50	< 50	< 50
Isopropylbenzene					1.0		< 1.0	< 1.0	< 1.0
p-Isopropyltoluene					1.0		< 1.0	< 1.0	< 1.0
Methacrylonitrile	126-98-7	1			50		< 50	< 50	< 50
Methylene chloride	75-09-2	4.3	5	5	5.0		< 5.0	< 5.0	< 5.0
Methyl methacrylate	80-62-6	1400			50		< 50UJ	< 50UJ	< 50UJ
4-Methyl-2-pentanone (MIBK)	108-10-1	160			50		< 50	< 50	< 50
Methyl tert-butyl ether (MTBE)	1634-04-4				1.0		< 1.0	< 1.0	< 1.0
Naphthalene	91-20-3				5.0		< 5.0	< 5.0	< 5.0
Pentachloroethane	76-01-7				50		< 50UJ	< 50UJ	< 50UJ
Propionitrile (ethyl cyanide)	107-12-0				50		< 50	< 50	< 50
n-Propylbenzene	103-65-1				1.0		< 1.0	< 1.0	< 1.0
Styrene	100-42-5	1600		100	1.0		< 1.0	< 1.0	< 1.0

ATTACHMENT 1
Detection Summary

Constituent	CAS No.	Region 9 PRG ug/l	MCL ug/l	State GTARC (ug/kg)	Frequency of Detection	Average ug/l	Minimum ug/l	Maximum ug/l	Well with max detection
Acetone	67-64-1	610			1 of 27	< 50	< 50	**270**	**GW-3**
Acrolein (Propenal)	107-02-8	0.042			0 of 27	< 50	< 50	< 50	NA
Acrylonitrile	107-13-1	0.039		0.06	0 of 27	< 50	< 50	< 50	NA
Allyl chloride	107-05-1	1800			0 of 27	< 50	< 50	< 50	NA
Benzene	**71-43-2**	**0.34**	**5**	**5**	**3 of 27**	**52.3**	**< 1.0**	**110**	**GW-3**
Bromobenzene					0 of 27	< 1.0	< 1.0	< 1.0	NA
Bromochloromethane					0 of 27	< 1.0	< 1.0	< 1.0	NA
Bromodichloromethane	75-27-4	0.18		80	0 of 27	< 1.0	< 1.0	< 1.0	NA
Bromoform	75-25-2	8.5		80	0 of 27	< 1.0	< 1.0	< 1.0	NA
Bromomethane	74-83-9	8.7			0 of 27	< 1.0	< 1.0	< 1.0	NA
2-Butanone (MEK)	78-93-3	1900			0 of 27	< 50	< 50	< 50	NA
n-Butylbenzene					0 of 27	< 1.0	< 1.0	<1.0	NA
sec-Butylbenzene					**1 of 27**	**1.2**	**1.2**	**1.2**	**GW-3**
tert-Butylbenzene					0 of 27	< 1.0	< 1.0	< 1.0	NA
Carbon disulfide	75-15-0	1000			0 of 27	< 1.0	< 1.0	< 1.0	NA
Carbon tetrachloride	56-23-5	0.17	5	5	0 of 27	< 1.0	< 1.0	< 1.0	NA
Chlorobenzene	**108-90-7**	**110**		**100**	**1 of 27**	**2.6**	**2.6**	**2.6**	**GW-3**
Chlorodibromomethane	124-48-1	0.18		80	0 of 27	< 1.0	< 1.0	< 1.0	NA
Chloroethane	**75-00-3**	**4.6**			**2 of 27**	**11.6**	**7.2**	**16**	**GW-3**
2-Chlorovinyl ethyl ether					0 of 27	< 10	< 10	< 10	NA
Chloroform	67-66-3	6.2		80	0 of 27	< 5.0	< 5.0	< 5.0	NA
Chloromethane	74-87-3	1.5			0 of 27	< 1.0	< 1.0	< 1.0	NA
2-Chlorotoluene					0 of 27	< 1.0	< 1.0	< 1.0	NA
4-Chlorotoluene					0 of 27	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromo-3-chloropropane	96-12-8	0.048	0.2	0.2	0 of 27	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromoethane	106-93-4	0.00076			0 of 27	< 1.0	< 1.0	< 1.0	NA
Dibromomethane	74-95-3				0 of 27	< 1.0	< 1.0	< 1.0	NA
1,2-Dichlorobenzene	**95-50-1**	**370**		**600**	**2 of 27**	**3.4**	**1.5**	**5.3**	**GW-3**

ATTACHMENT 2
Calibration Summary

ICP — **Initial Calibration**

	ICP4	ICP5	ICP6	ICPMS
3-point calibration 6010/6020?	YES	YES	YES	YES
ICV within 90%-110%?	YES	YES	YES	YES
Interelement correction ICSAB run at correct frequency?	YES	YES	YES	NA
ICSAB within 80%-120%?	YES	YES	YES	NA

Constituents exceeding criteria

Constituent	%R	Effect
None		

Continuing Calibration

CCVs meet <10%D? Yes

Compounds exceeding 10 %D criteria

Constituent	%R	Effect
None		

CVAAS — **Initial Calibration**

5-point calibration? YES

Correlation coefficient ≥ 0.995? YES

ICV within 80%-120%? YES

Constituents exceeding criteria

Constituent	%R	Effect
None		

Continuing Calibration

CCVs meet <20%D? YES

Compounds exceeding 20 %R criteria

Constituent	%R	Effect
None		

Qualifications to data

Lab ID	Field ID	DF	Analyzed	Compound	Qualification

ATTACHMENT 2
Calibration Summary

No qualifications

ATTACHMENT 2
Blank Summary

Detected in Calibration Blanks

Constituent	CAS No.	Analysis Date Time	QAPP R.L. (ug/L)	(ug/L)
None Detected				

Notes
No qualification required.

Detected in Preparation Blanks

Constituent	CAS No.	(ug/L)	QAPP R.L. (ug/L)
None Detected			

Notes

ATTACHMENT 2
Blank Summary

ATTACHMENT 2
Duplicate Summary

Detected in Field duplicate

Constituent	CAS No.	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-6B L269960-07 11/21/06 11/28/06 (ug/L)	Duplicate L269960-10 11/21/06 11/28/06 (ug/L)	RPD[1]
Arsenic, Total	7440-38-2	10		34	02/01/00	6.1
Arsenic, Dissolved	7440-38-2	10				
Barium, Total	7440-39-3	10		**400**	**400**	**0.0**
Barium, Dissolved	7440-39-3	10				
Cadmium, Total	7440-43-9	5		< 5	< 5	NA
Cadmium, Dissolved	7440-43-9	5				
Chromium, Total	7440-47-3	10		< 10	< 10	NA
Chromium, Dissolved	7440-47-3	10				
Lead, Total	7439-92-1	10		< 5	< 5	NA
Lead, Dissolved	7439-92-1	10				
Manganese, Total	7439-96-5	10		**320**	**290**	**9.8**
Manganese, Dissolved	7439-96-5	10				
Mercury, Total	7439-97-6	0.2		< 0.2	< 0.2	NA
Mercury, Dissolved	7439-97-6	0.2				
Nickel, Total	7440-02-0	10		< 20	< 20	NA
Nickel, Dissolved	7440-02-0	10				
Selenium, Total	7782-49-2	10		< 20	< 20	NA
Selenium, Dissolved	7782-49-2	10				
Silver, Total	7440-22-4	10		< 10	< 10	NA
Silver, Dissolved	7440-22-4	10				

[1] RPD calculated on results >3x RL

Notes:

Qualify results with RPD values greater than 20%.

ATTACHMENT 2
LCS&LCSD Summary

Analytes Outside Limits

Constituent	Spike Added	LCS Recovery	LCSD Recovery	Recovery Limits	LCS/LCSD RPD	RPD Limits
None				80% - 120%		20%

Notes:
All LCS and LCSD results acceptable

ATTACHMENT 2
MS&MSD Summary

Analytes Outside Limits

QC Batch WG276676

Constituent	Spike added	MS Recovery	MSD Recovery	Recovery Limits		MS/MSD RPD	RPD Limits
Silver	1.13	**17.4**	**37.0**	75	125	**72.0**	20
non-project sample							

WG2766461 GW-8B

Constituent	Spike added	MS Recovery	MSD Recovery	Recovery Limits		MS/MSD RPD	RPD Limits
Silver	1.13	**6.4**	**5.5**	75	125	15.1	20

Qualifications to data

Samples not qualified on MS/MSD analysis alone

Accuracy

Constituent	MS Result	LCS Result	Sample results	Qualification

Precision

Constituent	MS Result	LCS Result	Sample results	Qualification

ATTACHMENT 2
Validation Qualifications

Field ID	Lab ID	Constituent	Lab Report	Validation Change	Reason

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-8A L269960-01 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**6**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**330**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		< 5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		< 10
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		**11.0**
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**1200**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		< 20
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		<20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-9A L269960-04 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**18**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**860**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		<5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		**86**
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		**75.0**
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**900**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		**57**
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		< 20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-6B L269960-06 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**12**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**450**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		<5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		**55**
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		**47**
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**620**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		**30**
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		< 20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-8B L269960-02 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**39**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**840**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		< 5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		**48**
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		**71**
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**1000**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		**28**
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		< 20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-8C L269960-03 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**16**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**1300**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		< 5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		**26**
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		**28**
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**1300**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		<20
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		< 20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-9B L269960-05 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**25**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**390**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		< 5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		<10
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		<5
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**320**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		< 20
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		< 20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-10B L269960-07 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**34**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**400**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		< 5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		< 10
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		< 5
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**290**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		< 20
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		<20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-10C L269960-08 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**12**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**740**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		<5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		< 10
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		**5.6**
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**2700**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		< 20
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		< 20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-11C L269960-09 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**48**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**950**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		< 5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		**45**
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		**44**
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**2400**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		**82**
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		< 20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	DUPLICATE L269960-10 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**32**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**400**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		< 5
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		< 10
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		< 5
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**290**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		< 0.2
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		< 20
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		< 20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Validated Results

	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	GW-12A L269960-11 11/21/2006 (ug/L)
Arsenic, Total	7440-38-2	0.045	10	50	10		**22**
Arsenic, Dissolved	7440-38-2	0.045	10	50	10		
Barium, Total	7440-39-3	2600	2000	2000	10		**1600**
Barium, Dissolved	7440-39-3	2600	2000	2000	10		
Cadmium, Total	7440-43-9	18	5	5	5		**9.4**
Cadmium, Dissolved	7440-43-9	18	5	5	5		
Chromium, Total	7440-47-3	55000	100	100	10		**210**
Chromium, Dissolved	7440-47-3	55000	100	100	10		
Lead, Total	7439-92-1		15	15	10		**170**
Lead, Dissolved	7439-92-1		15	15	10		
Manganese, Total	7439-96-5	880	50	50	10		**11000**
Manganese, Dissolved	7439-96-5	880	50	50	10		
Mercury, Total	7439-97-6		2	2	0.2		**0,30**
Mercury, Dissolved	7439-97-6		2	2	0.2		
Nickel, Total	7440-02-0	730		100	10		**230**
Nickel, Dissolved	7440-02-0	730		100	10		
Selenium, Total	7782-49-2	180	50	50	10		< 20
Selenium, Dissolved	7782-49-2	180	50	50	10		
Silver, Total	7440-22-4	180	100	100	10		< 10
Silver, Dissolved	7440-22-4	180	100	100	10		

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Detection Summary

Constituent	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	Frequency of Detection	Average (ug/L)	Minimum (ug/L)	Maximum (ug/L)
Total Metals							
Arsenic, Total	0.045	10	50	12 of 22	13.6	1.1	230
Barium, Total	2600	2000	2000	12 of 22	330	130	1600
Cadmium, Total	18	5	5	1 of 22	8.5	<5	9.4
Chromium, Total	55000	100	100	6 of 22	30.6	<10	210
Lead, Total		15	15	9 of 22	11	<5	210
Manganese, Total	880	50	50	12 of 22	933	<10	11000
Mercury, Total		2	2	1 of 22	0	<0.2	0.3

ATTACHMENT 2
Detection Summary

Constituent	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	Well with max detection
Arsenic, Total	0.045	10	50	EPA-R-1
Barium, Total	2600	2000	2000	GW-12A
Cadmium, Total	18	5	5	GW-12A
Chromium, Total	55000	100	100	GW-12A
Lead, Total		15	15	EPA-R-3
Manganese, Total	880	50	50	GW-12A
Mercury, Total		2	2	GW-12A

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Shaw Environmental & Infrastructure, Inc.

Data Validation Report

16406 U.S. Route 224 East • Findlay, Ohio 45840 *Findlay Ohio Office – Applied Sciences*

PROJECT NUMBER:
PROJECT MANAGER: Mark Finney **SAMPLE RECEIPT DATE:** 11/22/2006
PROJECT NAME: Deffenbaugh Industries **LABORATORY SDG:** 6112207

Shaw Environmental & Infrastructure, Inc. (Shaw E&I) has performed a QA evaluation of the data report submitted by Weck Laboratories, Inc. (Weck), City of Industry, CA. The results are for 17 samples, including one Field Duplicate collected on November 20-21, 2006. The samples were analyzed for the parameters listed in the Sample Summary Table. Weck submitted a Level IV deliverable which was fully validated during the review process.

Sample Summary Table			
Sample Number	Collection Date	Matrix	Analysis Requested
GW-1	11/21/2006	Water	1,4-Dioxane by Isotope Dilution
GW-6A	11/21/2006		
GW-7	11/21/2006		
GW-8A	11/20/2006		
GW-8B	11/20/2006		
GW-8C	11/20/2006		
GW-9A	11/20/2006		
GW-9B	11/20/2006		
GW-10A	11/20/2006		
GW-10B	11/20/2006		
GW-10C	11/20/2006		
GW-11A	11/21/2006		
GW-11B	11/21/2006		
GW-12A	11/20/2006		
GW-12B	11/20/2006		
GW-12C	11/20/2006		
DUP (10B)	11/20/2006		

All sample preparations and analyses were performed within the laboratory method specified holding times. The cooler was received within the appropriate temperature and the samples were properly preserved as indicated in the case narrative of the data report. The reviewer has assumed that the samples collected on November 20th were stored on ice or in a refrigerator until packaging for shipment on the 21st. There were no broken sample containers or label/documentation discrepancies note by the laboratory. All of the samples were extracted within hold-time on November 28, 2006.

1,4-Dioxane Analysis by SW-846 Method 8270C Isotope Dilution

Instrument Tuning and Calibration

The GC/MS instrument was tuned to meet the DFTPP criteria and all associated calibration runs were performed within valid 12-hour tune clocks. The instrument calibration consisted of two curves, one for low-level analysis (<40ug/ml response) and another for high-level (40-600 ug/ml response). The initial calibration for both curves was performed using injections from September 29, 2006. A retention-time only update was performed on November 13, 2006 and is indicated as the "last updated" information on the raw data quant reports. The reviewer confirmed this via discussion and e-mail exchange with the laboratory. The low-level initial calibration was an average RF calibration fit with a percent RSD of 3.3, well within the requisite fifteen percent limit. The high-level calibration used a linear regression fit curve. This curve met the correlation coefficient requirement of >0.995. An ICV was analyzed and was within the laboratory established criteria of +/- 20% of the true value prior to the analysis of any samples.

The sample and QC analyses were completed within valid 12-hour tune clocks. The GC/MS system was checked for calibration stability at three response levels (1.0, 10, and 100 ug/ml) prior to sample analysis and all three were within 15% of the expected value in accordance with method requirements.

Spectral Performance

The isotope (ISTD) area response was within the criteria compared to the initial calibration for all associated calibration, sample and QC runs. The reviewer evaluated the mass-spectral information for each reported detection and found all to be true detections with spectral data that is indicative of 1,4-dioxane.

Batch QC

The samples and associated QC were extracted in one analytical batch (W6K0981) and analyzed on December 4, 2006.

Method Blank- The LCB contained no 1, 4-dioxane at a concentration above the reporting limit.

Method Spike- The LCS recovery was within control limits at 104 percent.

Matrix QC-A QC Matrix set (MS/MSD) was performed on the extra sample provided from GW-B. The recovery and precision indicators were within acceptance limits.

Field Duplicate Results

One Field Duplicate (DUP) was submitted and analyzed from well GW-10B. The relative percent difference (RPD) between the duplicate and original sample was zero. This supports the contention that the field sampling and analytical precision was within the project criteria and more than adequate to produce reproducible results.

Summary of Analysis

The Quality Control data provided in the laboratory report and Field QC data is representative of adequate method accuracy and precision with regard to project objectives. The reported data should be utilized, in the intended project decision-making process without reservation.

Guy Gallello, Jr – QA/QC Chemist

2/15/2007
Date

ATTACHMENT 3
1,4-Dioxane Summary

ESC and Weck labs analyzed the groundwater samples for 1,4 -Dioxane. The Weck result is considered more reliable based on the technology. Therefore, the final result for 1,4-Dioxane should come from Weck For samples not analyzed by Weck default to ESC result.

Positive Detection
Result above MCL or State GTARC
Result above Region 9 PRG
Result above MCL/State GTARC and Region 9 PRG

Field	ESC Result (ug/L)	Weck Result (ug/L)	Report (ug/L)
GW-1	< 100	8.1	8.1
GW-2R	<100		<100
GW-3	140		140
GW-4	<100		<100
GW-6A	<100	1.7	1.7
GW-6B	<100		<100
GW-7	<100	8.5	8.5
GW-8A	<100	1	1
GW-8B	< 100	18	18
GW-8C	120	140	140
GW-9A	<100	1.3	1.3
GW-9B	< 100	36	36
GW-10A	<100	1.2	1.2
GW-10B	< 100	26	26
GW-10C	210	220	220
GW-11A	< 100	11	11
GW-11B	310	330	330
GW-11C	1900		1900
GW-12A	< 100	6.1	6.1
GW-12B	< 100	1.6	1.6
GW-12C	< 100	74	74
PW-1	< 100		< 100
PW-2	< 100		< 100
PW-3	130		130
PW-4	< 100		< 100
TRENCH	450		450
EFF	<100		<100
EPA-R-1	<100		<100
EPA-R-3	<100		<100

Constituent	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	Frequency of Detection	Average (ug/L)	Minimum (ug/L)	Maximum (ug/L)	Well with max detection
1,4-Dioxane	123-91-1	6.1		3	20 of 29	175	1.0	1900	GW-11C

Detected in Field duplicate

Constituent	CAS No.	Lab R.L. (ug/L)	Field Lab Units	Weck Dup-01 6112207-17 (ug/L)	GW-10B 6112207-10 (ug/L)	RPD
1,4-Dioxane	123-91-1	0.5		26	26.0	0.0%

Calibration

Low		High	
Avg	%RSD 3.3	Linear	R^2=1.00
ICV	10.4	104%R	

CCV	ug/ml	%SD
1	1.05	5
10	10.57	5.7
100	105	5

Batch QC

	ug/l			
LCB	0	>RL		
LCS	10.4	104%R		
		sample		
MS	31		18	130%R
MSD	28		18	100%R
		RPD		10.2

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Shaw Environmental & Infrastructure, Inc.

Data Validation Report

16406 U.S. Route 224 East • Findlay, Ohio 45840 *Findlay Ohio Office – Applied Sciences*

PROJECT NUMBER:
PROJECT MANAGER: Mark Finney **SAMPLE RECEIPT DATE:** 11/22/2006
PROJECT NAME: Deffenbaugh Industries **LABORATORY SDG:** L270141

The Findlay Applied Sciences Group of Shaw Environmental & Infrastructure, Inc. (Shaw E&I) has performed a QA evaluation of the data report submitted by Environmental Science Corporation (ESC), Mount Juliet, TN. The results are for one (1) liquid sample collected on November 21, 2006. The sample was analyzed for the parameters listed in the Sample Summary Table.

Sample Summary Table			
Sample Number	Collection Date	Matrix	Analysis Requested
LNAPL	11/21/2006	Liquid	Arsenic, Cadmium, and Chromium by 6010B OA-1 PCBs by 8082 TOX-9076 Flashpoint Viscosity (subbed to ASI)

All sample preparations and analyses were performed within the required holding times. The cooler was received within the appropriate temperature, properly preserved and the sample was in proper containers as indicated in the case narrative of the data report. The following describes the overall QA/QC indicators.

Target Metals Analysis by SW-846 Method 6010B; Arsenic, Cadmium, Chromium

The sample was extracted in two separate QC batches (WG276667 and WG277095) on November 24th and 28th, 2006. QC Batch WG27667 was performed for the Cadmium and Chromium analysis. While Arsenic was determined from the extraction associated with QC Batch WG277095.

Instrument Calibration

The date package does not provide the raw Calibration Summary information the ICP instrument. However, based upon the ICV and CCV information the laboratory Case Narrative, and a manual verification of the calibration curves the ICP was properly calibrated and in analytical control. The ICP interference corrections were properly established prior to analysis as evidenced by the Interference Check results. The results of the continuing calibration blanks are below the reporting limits. All analysis runs were bracketed by passing CCV and CCB checks performed at the required frequencies

Method Blanks

The LCB results are below reporting limit for both QC batches. This is indicative of proper sample handling and a contaminant free system.

Method Spike

The LCS recoveries are within the established control limits for all reported analytes in bothl QC batches. This includes QC batches analyzed for total and dissolved metals as well as total and dissolved arsenic.

Matrix Spike

QC Matrix spiking and analyses were performed for both QC batches using another client's sample. In both QC batches the recovery and precision measures met criteria.

The reported results for target metals should be utilized without qualification.

PCBs by SW-846 Method 8082

The sample was extracted as a waste dilution on November 23, 2006 in QC batch WG276611.

Instrument Calibration

The data package does not provide the initial calibration information it does contain all pertinent continuing calibrations. The analytical system (SVGC18) was multi-point calibrated for two Arochlor mixtures (1016 and 1260) and single-point response calibrated for all other Arochlors. The Batch QC was analyzed on an in-control analytical system on November 26, 2006. The sample was reanalyzed due to calibration failures on a total of three occasions. The analysis was completed on November 29, 2006 on a newly updated calibration curve.

Batch QC-WG276611

Method Blank

The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system.

Method Spike

The LCS and LCS Duplicate recovery are within acceptance limits for the spiked Arochlor mixture-1260. Precision is also within criteria

Matrix Spikes

No QC Matrix sample set was performed for the batch. The laboratory used the LCSD to measure precision.

Surrogates

All Surrogate recovery data for the project samples and associated QC samples is within acceptance limits. There are some outliers on one of the two columns. These do not effect data usability.

The results for PCBs should be utilized without reservation in project decisions.

Gasoline Range Organics (GRO) and Aromatics (BTEX + MTBE) by Method OA-1

The sample was analyzed within hold-time on November 28, 2006. The sample required extensive dilution (1000X) due to the presence of higher molecular weight (non-GRO) organics.

Instrument Calibration

The GC system; VOCGC7 was calibrated in accordance with method requirements. The calibration update was completed on October 23, 2006 from analysis runs acquired on October 20, 2006. The calibration fit was average RF for the aromatics including MTBE, with all %RSD values less than 15%. A linear correlation curve fit was utilized for the hydrocarbon number elements, with each curve meeting the criteria for correlation coefficient (R^2) of >0.995. An ICV analyzed on the same day and quantitated using the newly updated files passed criteria for all compounds/analytes. The CCVs analyzed on the day of analysis were within the +/-15% criteria for all compounds/analytes of interest. The frequency of CCV analysis was compliant with method requirements.

Batch QC- WG277046

Method Blank

The LCB results are below reporting limits for all reported target analytes indicating a contaminant free system.

Method Spike

The LCS and LCS Duplicate recoveries were within the acceptance limits for all compounds/analytes. Precision of the LCS/LCSD was also within limits.

Matrix Spikes

Matrix QC was performed using samples from a different client set. The laboratory performed QC Matrix spiking on different samples for the BTEX + MTBE and GRO analyses. Recovery and precision were within limits for all compounds/analytes. The reviewer verified the GRO performance manually, as the laboratory QC summary does not contain this information.

Surrogates

Recovery was slightly above the limits in the LCS and the MS associated with the BTEX + MTBE analysis. All other Surrogate recovery data for the project samples and associated QC samples is within acceptance limits. These slight high biased results have no effect on overall data usability.

Internal Standards

All ISTD areas are within the acceptance windows when compared to the Initial Calibration.

The results for OA-1 should be utilized without reservation, taking into account the dilution required to perform the analysis. The laboratory was not directed to provide a quantitative result for the non-GRO petroleum envelope present in the sample.

Total Organic Halides (TOX) in Oil by SW-846 Method 9076

The sample was extracted on November 23, 2006 in QC batch WG276637 and analyzed on instrument TOX-1 on November 27, 2006. The instrument cell check passed all criteria and the instrument was properly calibrated.

Batch QC

The Laboratory Blank provided no TOX response at the stated detection limit. The LCS recovery was within limits as was the recovery of a LCS Duplicate. Precision between the LCS and LCSD was within limits as was the precision between a duplicate analysis of the sample.

Results for TOX should be utilized without qualification,

Ignitability by the PETROTEST System; ASTM D4982

The sample was prepared on November 25, 2006 in QC batch WG276756 and analyzed on November 27, 2006. The PETROTEST analyzer was checked for performance per the method and passed all criteria prior to sample analysis. These criteria included a no ignition response to a blank (water) and ignition within a specified temperature range of a control substance. A duplicate sample, not the site sample, passed criteria for reproducibility.

The reported result, "no ignition at 170 degrees F" should be utilized without qualification.

Viscosity of Oils by ASTM Methods

ESC subcontracted Analytical Services, Inc (ASI) in Norcross, GA to perform the analysis. The sample arrived at ASI under chain of custody and in a cooler within the specified temperature range. The ASI report provides no method QC. The reviewer has assumed that ASI followed all applicable procedures.

Summary of Analysis

The Quality Control data provided in the laboratory report is representative of adequate method accuracy and precision with regard to project objectives. The reported data should be utilized, in the intended project decision-making processes without reservation. Data users are cautioned to consider the dilutions performed and resulting elevated reporting limits for some parameters when comparing to project criteria.

Guy Gallello, Jr. – QA/QC Chemist

2/9/2007
Date

ATTACHMENT 2
Calibration Summary

ICP — **Initial Calibration**

3-point calibration 6010?	Yes
ICV within 90%-110%?	Yes
Interelement correction ICSAB run at correct frequency?	Yes
ICSAB within 80%-120%?	No

Constituents exceeding criteria

Constituent	%R	Effect
Arsenic, Dissolved	122	No samples associated with this ICSAB. No qualification.

Continuing Calibration

CCVs meet <10%D?	Yes

Compounds exceeding 10 %D criteria

Constituent	%R	Effect
Manganese, Total	111.5	No samples associated with this CCV. No qualification.

CVAAS — **Initial Calibration**

5-point calibration?	Yes
Correlation coefficient ≥ 0.995?	Yes
ICV within 80%-120%?	Yes

Constituents exceeding criteria

Constituent	%R	Effect
None		

Continuing Calibration

CCVs meet <20%D?	Yes

Compounds exceeding 20 %R criteria

Constituent	%R	Effect
None		

Qualifications to data

Lab ID	Field ID	DF	Analyzed	Compound	Qualification

ATTACHMENT 2
Calibration Summary

No qualifications

ATTACHMENT 2
Blank Summary

Detected in Calibration Blanks			QAPP R.L.	CCB	CCB	CCB	CCB	CCB
		Analysis Date Time						
Constituent	CAS No.		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
None detected				---	---	---	---	---

Notes
All Barium results are >5x the CCB amount. No qualification required.
All Silver results associated with the CCBs listed above are less than the reporting limit. No qualification required.

Detected in Preparation Blanks			QAPP R.L.	Blank WG157998 NA 06/02/04	Blank WG158064 NA 06/01/04	Blank WG158473 NA 06/03/04	Blank WG157998 5/29/2005
Constituent	CAS No.	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
None Detected							

Notes
Field Blank and Rinse Blank not analyzed for metals

ATTACHMENT 2
Blank Summary

CCB

(ug/L)

ATTACHMENT 2
Duplicate Summary

Detected in Field duplicate

Constituent	CAS No.	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	(ug/L)	(ug/L)	RPD[1]
Arsenic, Total	7440-38-2	10				NA
Arsenic, Dissolved	7440-38-2	10				NA
Barium, Total	7440-39-3	10				NA
Barium, Dissolved	7440-39-3	10				NA
Cadmium, Total	7440-43-9	5				NA
Cadmium, Dissolved	7440-43-9	5				NA
Chromium, Total	7440-47-3	10				NA
Chromium, Dissolved	7440-47-3	10				NA
Lead, Total	7439-92-1	10				NA
Lead, Dissolved	7439-92-1	10				NA
Manganese, Total	7439-96-5	10				NA
Manganese, Dissolved	7439-96-5	10				NA
Mercury, Total	7439-97-6	0.2				NA
Mercury, Dissolved	7439-97-6	0.2				NA
Nickel, Total	7440-02-0	10				NA
Nickel, Dissolved	7440-02-0	10				NA
Selenium, Total	7782-49-2	10				NA
Selenium, Dissolved	7782-49-2	10				NA
Silver, Total	7440-22-4	10				NA
Silver, Dissolved	7440-22-4	10				NA

[1] RPD calculated on results >3x RL

Notes:

Qualify results with RPD values greater than 20%.

No Field Duplicate performed

ATTACHMENT 2
LCS&LCSD Summary

Analytes Outside Limits

Constituent	Spike Added	LCS Recovery	LCSD Recovery	Recovery Limits	LCS/LCSD RPD	RPD Limits

None

Notes:
All LCS and LCSD results acceptable

ATTACHMENT 2
MS&MSD Summary

Analytes Outside Limits

Constituent	Spike added	MS Recovery	MSD Recovery	Recovery Limits	MS/MSD RPD	RPD Limits
						20

05/29/04 Analysis **GW-7**

Constituent	Spike added	MS Recovery	MSD Recovery	Recovery Limits	MS/MSD RPD	RPD Limits
						20

Qualifications to data

Samples not qualified on MS/MSD analysis alone

Accuracy

Constituent	**MS Result**	**LCS Result**	**Sample results**	**Qualification**

Precision

Constituent	**MS Result**	**LCS Result**	**Sample results**	**Qualification**

No QC Matrix issues- site sample not spiked

ATTACHMENT 2
Validation Qualifications

Field ID	Lab ID	Constituent	Lab Report	Validation Change	Reason

ATTACHMENT 2
Validated Results

	Region 9 PRG (ug/L)	MCL (ug/L)	State C (ug/L)	QAPP R.L. (ug/L)	Field Lab Received Analyzed Units	LNAPL-GW L270141-01 11/22/06 11/26/06 (ug/L)
Antimony, Total						
Antimony, Dissolved						
Arsenic, Total	0.045	10	50	10		**25**
Arsenic, Dissolved	0.045	10	50	10		<10
Barium, Total	2600	2000	2000	10		<10
Barium, Dissolved	2600	2000	2000	10		<10
Beryllium, Total						
Berylium, Dissolved						
Cadmium, Total	18	5	5	5		**1.2**
Cadmium, Dissolve	18	5	5	5		
Chromium, Total	55000	100	100	10		**11**
Chromium, Dissolv	55000	100	100	10		<10
Cobalt, Total						
Cobalt, Dissolved						
Copper, Total						
Copper, Dissolved						
Lead, Total		15	15	10		<10
Lead, Dissolved		15	15	10		<10
Manganese, Total	880	50	50	10		<10
Manganese, Dissolv	880	50	50	10		<10
Mercury, Total		2	2	0.2		
Mercury, Dissolved		2	2	0.2		
Nickel, Total	730		100	10		<10
Nickel, Dissolved	730		100	10		<10
Selenium, Total	180	50	50	10		<10
Selenium, Dissolve	180	50	50	10		<10
Silver, Total	180	100	100	10		<10
Silver, Dissolved	180	100	100	10		<10
Vanadium, Total						
Vanadium, Dissolved						
Zinc, Total						
Zinc, Dissolved						

Positive Detection

Result by Dilution

Result above MCL or State GTARC

Result above Region 9 PRG

Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Detection Summary

Constituent	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	Frequency of Detection	Average (ug/L)
				Total Metals		
Arsenic, Total	7440-38-2	0.045	10	50	1 of 1	25.0
Barium, Total	7440-39-3	2600	2000	2000	0 of 1	
Barium, Dissolved	7440-39-3	2600	2000	2000	0 of 1	
Cadmium, Total	7440-43-9	18	5	5	1 of 1	1
Chromium, Total	7440-47-3	55000	100	100	1 of 1	11
Lead, Total	7439-92-1		15	15	0 of 1	
Manganese, Total	7439-96-5	880	50	50	0 of 1	
Manganese, Dissolved	7439-96-5	880	50	50	0 of 1	
Nickel, Total	7440-02-0	730		100	0 of 1	
Nickel, Dissolved	7440-02-0	730		100	0 of 1	
Selenium, Total	7782-49-2	180	50	50	0 of 1	
Silver, Total	7440-22-4	180	100	100	0 of 1	

Result above MCL or State GTARC
Result above Region 9 PRG
Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Detection Summary

Constituent	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	Minimum (ug/L)	Maximum (ug/L)
				Total M		
Arsenic, Total	7440-38-2	0.045	10	50		25
Barium, Total	7440-39-3	2600	2000	2000		
Barium, Dissolved	7440-39-3	2600	2000	2000		
Cadmium, Total	7440-43-9	18	5	5		1.2
Chromium, Total	7440-47-3	55000	100	100		11
Lead, Total	7439-92-1		15	15		
Manganese, Total	7439-96-5	880	50	50		
Manganese, Dissolved	7439-96-5	880	50	50		
Nickel, Total	7440-02-0	730		100		
Nickel, Dissolved	7440-02-0	730		100		
Selenium, Total	7782-49-2	180	50	50		
Silver, Total	7440-22-4	180	100	100		

Result above MCL or State GTARC
Result above Region 9 PRG
Result above MCL or State GTARC and Region 9 PRG

ATTACHMENT 2
Detection Summary

Constituent	CAS No.	Region 9 PRG (ug/L)	MCL (ug/L)	State GTARC (ug/L)	Well with max detection
				Total N	
Arsenic, Total	7440-38-2	0.045	10	50	
Barium, Total	7440-39-3	2600	2000	2000	
Barium, Dissolved	7440-39-3	2600	2000	2000	
Cadmium, Total	7440-43-9	18	5	5	
Chromium, Total	7440-47-3	55000	100	100	
Lead, Total	7439-92-1		15	15	
Manganese, Total	7439-96-5	880	50	50	
Manganese, Dissolved	7439-96-5	880	50	50	
Nickel, Total	7440-02-0	730		100	
Nickel, Dissolved	7440-02-0	730		100	
Selenium, Total	7782-49-2	180	50	50	
Silver, Total	7440-22-4	180	100	100	

Result above MCL or State GTARC
Result above Region 9 PRG
Result above MCL or State GTARC and Region 9 PRG

Appendix D

Appendix D

Field Notes

ISC Monitoring - November 2006

* TD = Product Level
WC = Product Thickness

→ 24.93

	pH	Conductivity	Temperature	~~Turbidity~~ DO	DO mg/L	ORP	TD	SWL	WC	WV
* EPA-R-1	6.60	1374	17.61	4.6	0.43	-121.9	1.25	20.79	22.04	
EPA-R-3	7.17	1312	13.49	1.1	0.11	-180.0	49.06	24.86	24.20	
(4) GW-1	6.95	1591	16.86	6.8	0.65	-167.3	13.86	11.80	2.06	
* GW-2R	6.59	1426	16.37	3.7	0.36	-99.5	Film	20.32	—	
* GW-3	6.80	1360	16.20	2.7	0.27	-140.7	24.70	~~[illegible]~~	~~[illegible]~~	
* GW-4							18.07	20.05	2.02	
GW-5	6.64	1287	15.46	24.3	2.41	-4.9	16.90	16.12	0.78	
GW-6A	6.51	1074	15.24	20.8	2.08	5.8	23.50	20.07	3.43	
GW-6B	6.61	1016	15.28	1.7	0.17	-69.6	71.90	22.00	49.90	
GW-7	6.52	1791	16.06	3.1	0.30	-16.4	25.47	20.58	4.89	
GW-8A	6.44	851	15.83	2.5	0.25	-29.5	14.17	10.76	3.41	
MS/MSD GW-8B	6.78	865	15.20	1.9	0.19	-135.5	71.87	19.42	52.45	
GW-8C	6.64	1089	15.24	2.0	0.20	-142.7	48.26	18.30	29.96	
GW-9A	6.54	862	15.68	2.5	0.24	-95.6	23.84	14.99	8.85	
GW-9B	6.94	~~802~~ 785	~~15.68~~ 14.85	~~2.5~~ 1.7	~~0.24~~ 0.17	-195.0	75.09	24.02	51.07	
GW-10A	6.51	1056	15.63	56.2	5.57	10.5	18.64	14.31	4.33	
Dup GW-10B	6.95	790	14.62	3.0	0.31	-132.3	75.35	23.27	52.08	
GW-10C	6.70	1304	14.67	1.1	0.11	-97.7	49.18	19.79	29.39	
GW-11A	6.49	1064	15.54	6.5	0.64	7.5	33.85	22.62	11.23	
GW-11B	6.48	1249	14.98	1.5	0.15	-52.9	78.95	31.20	47.75	
11/20 Rince 14:00 GW-11C	6.51	1773	15.17	1.2	0.12	-89.7	53.70	24.56	29.14	
GW-12A	6.43	1699	15.63	3.8	0.38	81.6	29.10	19.59	9.51	4.75
GW-12B	7.08	565	14.89	0.4	0.04	215	67.13	19.30	47.83	23.5
GW-12C	6.75	1224	15.05	1.0	0.10	-152	48.50	16.39	32.11	15.75
PW-1								12.64		
PW-2								18.25		
PW-3								17.38		
PW-4								18.84		
Trench								25.53		
Effluent										

Duplicate

MS/~~MSD~~

Hex Chrom. - Bail + wait

Appendix 9 + Hex Chrom - Bail + wait } send in together Monday

Weck