3RD QUARTER 2006
DATA REPORT

PLUME STABILITY MONITORING PROGRAM

SOLUTIA INC.
W.G. KRUMMRICH FACILITY

Prepared for
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January 19, 2007

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1.0 INTRODUCTION

Solutia Inc. (Solutia) is conducting groundwater monitoring activities as outlined in the Plume Stability Monitoring Plan (PSMP) (Solutia, 2005). This report presents the results of the 3rd Quarter 2006 (3Q06) sampling event as part of the two-year "baseline" monitoring period. Solutia intends to submit data reports, such as this one, for the quarterly events that make up the 1Q06 to 4Q07 baseline monitoring period. The site location map is presented on **Figure 1**.

As described in the Plume Stability Monitoring Plan, the monitoring wells are screened at depths which represent the highest concentration of target constituents (e.g., monochlorobenzene (MCB) and dichlorobenzenes (DCB)) in groundwater, based on information available when the PSMP was prepared. Most of the wells are screened in the Deep Hydrogeologic Unit (DHU); a few are screened in the Shallow Hydrogeologic Unit (SHU) or Middle Hydrogeologic Unit (MHU). Specific information with respect to screen placement in provided in the Well Completion Report (Solutia, 2006A) and screen depths are given in **Table 1**. Plume stability monitoring well locations are summarized below and shown on **Figure 2.**

Monitoring Well	Hydrogeologic Unit	Monitoring Well Location	Property Owner
PSMW - 1	MHU	Northern Plume Boundary	Solutia
PSMW - 2	DHU	Former PCB Manufacturing Area	Solutia
PSMW - 3	DHU	Former Chlorobenzene Process Area	Solutia
PSMW - 4	DHU	North Tank Farm	Solutia
PSMW - 5	SHU	Former Chlorobenzene Storage Area	Solutia
PSMW - 6	DHU	Northern Plume Boundary	Magna Trust
PSMW - 7	DHU	Chlorobenzene Process Area Migration Pathway	Center Oil
PSMW - 8	DHU	Chlorobenzene Storage Area Migration Pathway	Center Oil
PSMW - 9	DHU	Southern Plume Boundary	Village of Sauget
PSMW - 10	DHU	Northern Plume Boundary	Slay Terminals
PSMW - 11	DHU	Chlorobenzene Process Area Migration Pathway	Slay Terminals
PSMW - 12	DHU	Chlorobenzene Storage Area Migration Pathway	Village of Sauget
PSMW - 13	DHU	Southern Plume Boundary	Village of Sauget
PSMW - 14 M	MHU	Northern Plume Boundary	Slay Terminals
PSMW - 14 D	DHU	Northern Plume Boundary	Slay Terminals
PSMW - 15 M	MHU	Chlorobenzene Process Area Migration Pathway	Slay Terminals
PSMW - 15 D	DHU	Chlorobenzene Process Area Migration Pathway	Slay Terminals
PSMW - 16 M	MHU	Chlorobenzene Storage Area Migration Pathway	Slay Terminals
PSMW - 17	DHU	Southern Plume Boundary	Solutia

Note: PSMW - 17 and Sauget Area 2 Groundwater Migration Control System BWMW - 4 D are the same well.

Field sampling activities were conducted in accordance with the procedures outlined in the PSMP including the collection of appropriate quality assurance and quality control (QA/QC) samples. The following section summarizes the field investigative procedures.

2.0 FIELD PROCEDURES

URS Corporation (URS) conducted the 3Q06 plume stability monitoring field activities between August 28th and September 13th, 2006.

Groundwater Level Measurements - Prior to sampling, URS gauged the Plume Stability Monitoring Wells and other wells and piezometers in and around the W.G. Krummrich (WGK) Facility to obtain static groundwater levels and total well depths. Presence of non-aqueous phase liquids was evaluated using an oil/water interface probe at selected well locations. Well gauging information for the 3Q06 sampling event is presented in **Table 1**, and a potentiometric surface map is presented on **Figure 3**. This map is based on water level data from wells screened in the MHU and DHU, because these hydrogeologic units are the primary migration pathway for constituents present in groundwater at the W.G. Krummrich Facility.

Groundwater Quality Sampling - Low-flow sampling techniques were used for groundwater sample collection. At each monitoring well, a submersible pump attached to polyethylene tubing was slowly lowered down the well and secured so that the pump intake was set near the middle or slightly above the middle of the screened interval. The other end of the polyethylene tubing was connected to a flow-through cell which discharged into a 5-gallon plastic bucket. Pump flow rates were started at approximately 100ml/min and increased to a maximum of 500 ml/min during purging. Water level measurements were initially recorded approximately every two minutes to assess whether significant drawdown was occurring. If significant drawdown occurred, the flow rates were scaled back. Drawdown was monitored to ensure that it did not exceed 25% of the distance between the pump intake and the top of the screen (approximately 0.62 ft). Once the flow rate and drawdown were stable, field measurements were collected approximately every three to five minutes. Field measurements are presented on the groundwater purging and sampling forms, in **Appendix A.** Groundwater was considered stable when the following criteria were met over a minimum of three successive flow-through cell volumes:

- pH - ± 0.2 units
- Specific Conductance - ± 3%
- Dissolved Oxygen (DO) - ± 10% or ± 2 mg/L whichever is greater
- Oxidation-Reduction Potential (ORP) ± 20 mV

Once stabilization was achieved, samples were collected at a maximum flow rate of 500 ml/min consistent with the work plan in the following order:

- Volatile Organic Compounds (VOCs)
- Dissolved gases (e.g., carbon dioxide and methane)
- Semivolatile Organic Compounds (SVOCs)
- Polychlorinated biphenyls (PCBs)
- Pesticides

- Herbicides
- Metals
- Alkalinity
- Chloride, nitrate, and sulfate
- Total organic carbon (TOC)
- Ferrous Iron (filtered using a 0.2 micron filter and analyzed in the field)

QA/QC samples consisting of analytical duplicates (AD) and equipment blanks (EB) were collected at a rate of 10% and matrix spike/matrix spike duplicates (MS/MSD) were collected at a rate of 5%, complying with the work plan. In addition, trip blanks accompanied each shipment containing samples for VOC analysis. All samples were submitted to Severn-Trent Laboratory's (STL) facility in Savannah, Georgia for analysis.

The sample identification system for groundwater samples included the following nomenclature "PS2-0906" which denotes plume stability monitoring well number 2 sampled in September 2006. QA/QC samples are identified by the suffix AD, EB or MS/MSD.

Field personnel recorded the project identification and number, sample description/location, required analysis, date and time of sample collection, type and matrix of sample, number of sample containers, analysis requested/comments, and sampler signature/date/time, with permanent ink on the chain-of-custody (COC). COC forms are included in **Appendix B**.

Samples were placed on ice inside a cooler immediately following sampling. Courier service was provided by the STL facility in Earth City, Missouri. Sample containers were packed in such a way as to help prevent breakage. Samples were shipped in coolers, each containing ice to maintain inside temperature at approximately 4°C. Sample coolers were sealed between the lid and sides of the cooler with a custody seal prior to shipment. The samples were shipped to the STL facility in Savannah, Georgia by means of an overnight delivery service.

3.0 LABORATORY PROCEDURES

Samples were analyzed by STL for the 40 CFR 264 Appendix IX VOCs, SVOCs, PCBs, pesticides, herbicides, metals, and monitored natural attenuation (MNA) parameters, using the following methodologies:

- VOCs, via Method 8260B
- SVOCs, via Method 8270C
- PCBs, via Method 680
- Pesticides, via Method 8081A
- Herbicides, via Method 8151A

- Metals, via Method 6010
- MNA parameters consisting of alkalinity (310.1), carbon dioxide (310.1), chloride (325.2), methane (RSK 175), nitrate (353.2), sulfate (375.4), and total organic carbon (TOC) (415.1).

Dichlorobenzenes were quantitated using Method 8260B because of potential volatilization losses associated with Method 8270C. Laboratory results were provided in electronic and hard copy formats.

4.0 QUALITY ASSURANCE

Analytical data were reviewed for quality and completeness, as described in the PSMP. Data qualifiers were added, as appropriate, and are included on the data tables and the laboratory result pages. The Quality Assurance report is included as **Appendix C**. Laboratory result pages are included in **Appendix D**.

A total of 26 samples (20 investigative groundwater samples, two field duplicates, one MS/MSD pair and two equipment blanks) were prepared and analyzed by STL for combinations of VOCs, SVOCs, PCBs, pesticides, herbicides, metals, and general chemistry. The results for the various analyses were submitted as sample delivery groups (SDGs) KPS019, KPS020, KPS021 and KPS022. The samples contained in each SDG are listed below.

KPS019	**KPS020**
PS4-0806	PS10-0906
PS3-0806	PS16M-0906
PS3-0806-AD	PS16D-0906
PS1-0806	PS15D-0906
PS1-0806-AD	PS15M-0906
PS14D-0906	PS11-0906
PS14M-0906	PS6-0906
	PS9-0906
KPS021	PS12-0906
PS5-0906	PS17-0906
	PS8-0906
KPS022	PS7-0906
PS2-0906	PS13-0906
PS2-0906F	

Evaluation of the analytical data followed procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, 1999 and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, 2004 and the Plume Stability Monitoring Plan, 2005. Based on the above mentioned criteria, results reported for the analyses performed were accepted for their intended use. Acceptable levels of accuracy and precision, based on MS/MSD, laboratory control sample (LCS), surrogate and field duplicate data were achieved for these SDGs to meet the

project objectives. Completeness which is defined to be the percentage of analytical results which are judged to be valid, including estimated (J/UJ) data was 100 percent.

5.0 OBSERVATIONS

Tables 2 and **3** present the groundwater analytical detections and monitored natural attenuation results for the 3Q06 plume stability monitoring sampling round, respectively. Seven of the detected constituents were selected to assess groundwater migration from source areas at the W.G. Krummrich Facility: Benzene, Chlorobenzene, Total Dichlorobenzenes, Phenol, 2-Chlorophenol, p-Chloroaniline and Total PCBs. Each of these constituents is discussed below.

Benzene - The maximum detected source area concentration of benzene was 570,000 ug/L in the SHU at the Former Chlorobenzene Storage Area (**Figure 4**). On-site concentrations of benzene in the DHU ranged from 2,200 to 8,600 ug/L. The benzene plume in the DHU reached the Mississippi River north of the Sauget Area 2 Groundwater Migration Control System (SA2 GMCS) in the vicinity of nested monitoring wells PSMW-15 and PSMW-16. Benzene concentrations in the DHU at the river ranged from 51 ug/L (PSMW-16D) to 6,200 ppb (PSMW-15D). Benzene was not detected (< 1 ug/L) at either location (PSMW-15M and PSMW-16M) in the MHU at the Mississippi River.

Chlorobenzene - During 3Q06, the maximum detected source area concentration of chlorobenzene was 38,000 ug/L in the DHU at the North Tank Farm (PSMW-4), just downgradient of the Former Chlorobenzene Process Area (**Figure 5**). The chlorobenzene plume in the DHU reached the Mississippi River north of the Sauget Area 2 Groundwater Migration Control System and discharged along the entire length (2,400 ft.) of the monitoring zone from PSMW-14D to PSMW-16D. Chlorobenzene concentrations in the DHU at the Mississippi River north of the SA2 GMCS ranged from 1,200 ug/L (PSMW-15D) to 2,100 ug/L (PSMW-16D). Chlorobenzene concentration in PSMW-17 was 850 ug/L as a result of residual contamination downgradient of the Sauget Area 2 Groundwater Migration Control System.

Actual boundaries of the chlorobenzene plume in the DHU were not defined at the Mississippi River during the 3Q06 sampling event. PSMW-14D, the northern most plume stability monitoring well at the river, was located approximately 250 ft. south of the expected northern boundary of the W.G. Krummrich plume. Detection of 1,500 ug/L of chlorobenzene in PSMW-14D during the 3Q06 sampling event confirmed that this plume stability monitoring well was within the boundary of the W.G. Krummrich plume. Groundwater quality data from PSMW-10, located approximately 100 ft north of the expected plume boundary and approximately 1,000 ft upgradient of the Mississippi River, defined the northern boundary of the chlorobenzene plume. Chlorobenzene was detected in PSMW-10 at a concentration of 8.6 ug/L during the 3Q06 sampling round.

Chlorobenzene concentrations in the MHU at the Mississippi River were 1.5 ug/L in PSMW-14M, 1.1 ug/L in PSMW-15M and 18 ug/L in PSMW-16M.

Total Dichlorobenzenes - Maximum detected concentration of total dichlorobenzenes (1,2-dichlorobenzene; 1-3-dichlorobenzene and 1-4-dichlorobenzene) in the DHU was 43,800 ug/L in PSMW-

3 at the Former Chlorobenzene Process Area (**Figure 6**). The dichlorobenzenes plume in the DHU reached the Mississippi River just north of the Sauget Area 2 Groundwater Migration Control System at concentrations of 100 ug/L (PSMW-16D) and 2.7 ug/L (PSMW-14D). Dichlorobenzenes were not detected in plume stability monitoring well PSMW-15D which is located between PSMW-14D and PSMW-16D at the Mississippi River. At PSMW-17, total dichlorobenzenes concentrations in the DHU were 6,470 ug/L as a result of residual contamination downgradient of the Sauget Area 2 Groundwater Migration Control System.

Total dichlorobenzene concentrations in the MHU at the Mississippi River were 2.8 ug/L in PSMW-14M, ND in PSMW-15M and ND in PSMW-16M.

Phenol - In 3Q06, the maximum concentration of phenol was 73 mg/L in the SHU (PSMW-5) at the Former Chlorobenzene Storage Area (**Figure 7**). Phenol was detected in the DHU downgradient of the Former Chlorobenzene Storage Area at PSMW-7 (28 ug/L) and PSMW-8 (73 ug/L). Both of these wells are located at the downgradient boundary of Lot F on property now owned by Center Oil. No phenol was detected at the Mississippi River in PSMW-14M/D, PSMW-15M/D, PSMW-16M/D or PSMW-17.

2-Chlorophenol - 2-Chlorophenol was detected in the DHU at the North Tank Farm (PSMW-4) at a concentration of 17 ug/L (**Figure 8**). It was also detected in downgradient plume stability monitoring wells PSMW-8 (15 ug/L), which is located at the downgradient boundary of the Center Oil property, and PSMW-12 (12 ug/L), which is located downgradient of the Village of Sauget PChem Plant. No 2-chlorophenol was detected at the Mississippi River in PSMW-14M/D, PSMW-15M/D, PSMW-16M/D or PSMW-17.

p-Chloroaniline - Para-chloroaniline was detected in the DHU at the Former PCB Manufacturing Area (330 ug/L in PSMW-2) and the Former Chlorobenzene Process Area (440 ug/L in PSMW-3) (**Figure 9**). While p-chloroaniline was detected in three downgradient plume stability monitoring wells (PSMW-7 at 310 ug/L, PSMW-8 at 27 ug/L and PSMW-11 at 300 ug/L) it was not detected at the Mississippi River in PSMW-14M/D, PSMW-15M/D and PSMW-16M/D. At PSMW-17, p-chloroaniline was detected at a concentration of 14,000 ug/L as a result of residual contamination downgradient of the Sauget Area 2 Groundwater Migration Control System.

Total PCBs - Total PCBs were detected in unfiltered samples from plume stability monitoring wells PSMW-1, 2, 3 and 4 at concentrations of 0.096 ug/L, 0.1 ug/L, 15 ug/L and 0.54 ug/L, respectively, during the 3Q06 sampling event (**Figure 10**). Three of these wells are located within the W.G. Krummrich Facility process area: one at the Former PCB Manufacturing Area (PSMW-2), another at the Former Chlorobenzene Process Area (PSMW-3) and the third at the North Tank Farm (PSMW-4). PSMW-1 is located at the upgradient boundary of the W.G. Krummrich Facility.

Data from the 3Q06 PCB Mobility and Migration Investigation sampling event demonstrated that downgradient migration of PCBs from the Former PCB Manufacturing Area was limited. Total PCBs were detected in unfiltered samples from the three downgradient monitoring wells at concentrations of 0.24

ug/L (PMAMW-1M), 2.4 ug/L (PMAMW-2M) and 1.9 ug/L (PMAMW-3M). These monitoring wells are located 300 to 400 feet downgradient of source area monitoring well PMAMW-4S and screened in the Middle Hydrogeologic Unit.

PCB migration in the MHU/DHU downgradient of the Former Chlorobenzene Process Area and the North Tank Farm is expected to follow the same pattern as that observed in the Former PCB Manufacturing Area - attenuation over a distance of 300 to 400 ft. This expectation is supported by the fact that PCBs were not detected in plume stability monitoring wells PSMW-6, 7, 8 and 9, which are located downgradient of the W.G. Krummrich plant process area.

Total PCBs were detected in PSMW-12 at a concentration of 36 ug/L during the 3Q06 sampling event. No PCBs were detected at the Mississippi River in either PSMW-14M/D, PSMW-15M/D, PSMW-16M/D or PSMW-17, demonstrating that the PCBs detected in PSMW-12 attenuated before they reached the river. This attenuation is consistent with the attenuation observed in the Former PCB Manufacturing Area.

Potential Impacts on the Mississippi River - Data included in the W.G. Krummrich Facility Description of Current Conditions Report (Solutia, 2000) indicated that VOCs and SVOCs from the plant process area migrated in the Middle and Deep Hydrogeologic Units and discharged to the Mississippi River downgradient of the plant. Surface water, sediment and fish tissue sampling was performed in the Mississippi River in October and November 2000 to determine if this discharge adversely impacted the river. Prior to performing this sampling, a reconnaissance survey was conducted in September 2000, in conjunction with USEPA, to characterize river bottom substrates and identify surface water, sediment and fish sampling locations. During this reconnaissance survey, sediment samples were collected in the Mississippi River adjacent to Sauget Area 2 Site R to determine how far the plume discharge area extended into the river. Sampling was performed in the plume discharge area downgradient of Sauget Area 2 Site R along three transects running perpendicular from the riverbank toward center of the river. Analytical results are summarized below:

Total VOC Concentrations (ppb) Detected in Mississippi River Sediments from River Bank to River Centerline

	Distance from Bank, feet								
Total VOCs, ppb	**50**	**200**	**300**	**400**	**500**	**600**	**700**	**1000**	**1400**
North Transect	644	NS	854	ND	NS	NS	ND	ND	ND
Center Transect	1300	ND	NS	NS	ND	NS	NS	NS	NS
South Transect	45	NS	473	NS	NS	1	NS	NS	NS

These reconnaissance survey sediment sample analyses demonstrated that the commingled W.G. Krummrich and Sauget Area 2 Site R plumes discharged within 400 ft of the bank of the Mississippi River. Consequently, all subsequent sediment and surface water samples were collected along three transects running parallel to the riverbank at distances of 50, 150 and 300 ft from the bank.

Sediment and surface water sampling, performed in the Mississippi River during October and November 2002 for the W.G. Krummrich Ecological Risk Assessment (Menzie-Cura, 2001), demonstrated that adverse impacts resulting from the discharge of groundwater to surface water were only observed immediately downgradient of Sauget Area 2 Site R. The Sauget Area 2 Groundwater Migration Control System, in operation since July 2003, was constructed to mitigate this adverse impact. This sampling also demonstrated that there was no adverse impact resulting from discharge of groundwater to surface water in the area between PSMW-15D and PSMW-16D. Similar sampling, performed in November 2002 for the Sauget Area 2 Baseline Ecological Risk Assessment (AMEC, 2003), demonstrated that groundwater discharge to surface water did not have an adverse impact in the area between PSMW-14D and PSMW-15D.

Figure 11 displays benzene and total chlorobenzenes results from the 1Q06, 2Q06 and 3Q06 sampling events. These constituents provide a good depiction of the areal extent of constituent migration from source areas at the W.G. Krummrich Facility. Results from the 3Q06 sampling event are generally consistent with those from previous sampling events (Solutia, 2006B and Solutia, 2006C). Solutia will continue to collect groundwater samples on a quarterly basis during the baseline monitoring period and will prepare reports similar to this.

6.0 REFERENCES

AMEC, 2003. Baseline Ecological Risk Assessment, Sauget Area 2 Sites (Sites O, P, Q, R and S), Sauget, Illinois, August 2003.

Menzie-Cura, 2000. Ecological Risk Assessment for W.G. Krummrich Plant, Sauget, St. Clair County, Illinois, June 2001.

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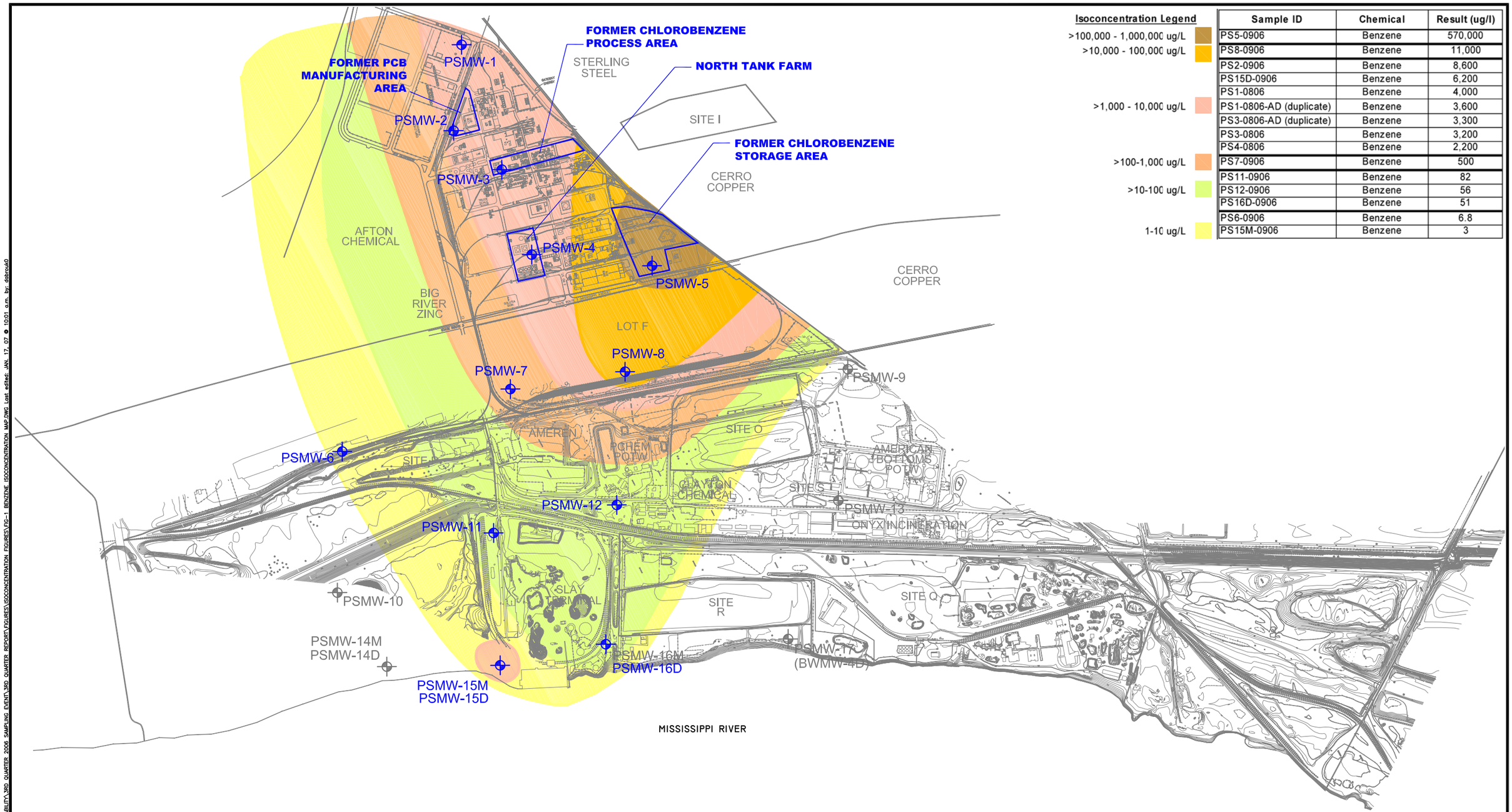
Figures



Isoconcentration Legend

- >100,000 - 1,000,000 ug/L
- >10,000 - 100,000 ug/L
- >1,000 - 10,000 ug/L
- >100-1,000 ug/L
- >10-100 ug/L
- 1-10 ug/L

Sample ID	Chemical	Result (ug/l)
PS5-0906	Benzene	570,000
PS8-0906	Benzene	11,000
PS2-0906	Benzene	8,600
PS15D-0906	Benzene	6,200
PS1-0806	Benzene	4,000
PS1-0806-AD (duplicate)	Benzene	3,600
PS3-0806-AD (duplicate)	Benzene	3,300
PS3-0806	Benzene	3,200
PS4-0806	Benzene	2,200
PS7-0906	Benzene	500
PS11-0906	Benzene	82
PS12-0906	Benzene	56
PS16D-0906	Benzene	51
PS6-0906	Benzene	6.8
PS15M-0906	Benzene	3

NOTES:

1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

LEGEND

MONITORING WELL LOCATION

0 1000
SCALE FEET

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 GROUNDWATER DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

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DRN. BY: dab 1/16/07
DSGN. BY: jg
CHKD. BY:

Benzene Isoconcentration Map

FIG. NO. 1

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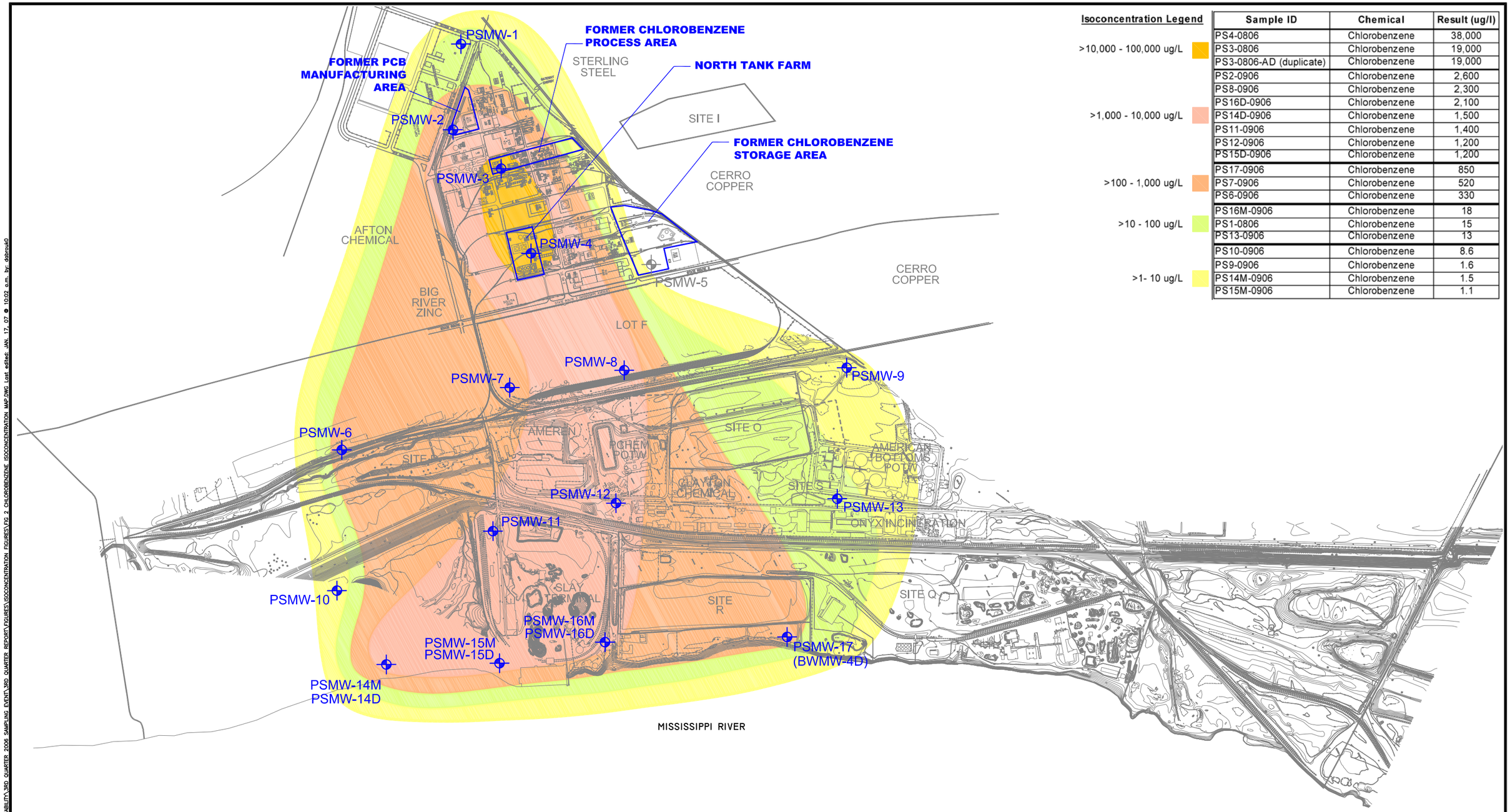

Isoconcentration Legend

- >10,000 - 100,000 ug/L
- >1,000 - 10,000 ug/L
- >100 - 1,000 ug/L
- >10 - 100 ug/L
- >1- 10 ug/L

Sample ID	Chemical	Result (ug/l)
PS4-0806	Chlorobenzene	38,000
PS3-0806	Chlorobenzene	19,000
PS3-0806-AD (duplicate)	Chlorobenzene	19,000
PS2-0906	Chlorobenzene	2,600
PS8-0906	Chlorobenzene	2,300
PS16D-0906	Chlorobenzene	2,100
PS14D-0906	Chlorobenzene	1,500
PS11-0906	Chlorobenzene	1,400
PS12-0906	Chlorobenzene	1,200
PS15D-0906	Chlorobenzene	1,200
PS17-0906	Chlorobenzene	850
PS7-0906	Chlorobenzene	520
PS6-0906	Chlorobenzene	330
PS16M-0906	Chlorobenzene	18
PS1-0806	Chlorobenzene	15
PS13-0906	Chlorobenzene	13
PS10-0906	Chlorobenzene	8.6
PS9-0906	Chlorobenzene	1.6
PS14M-0906	Chlorobenzene	1.5
PS15M-0906	Chlorobenzene	1.1

LEGEND

MONITORING WELL LOCATION

NOTES:

1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

0 1000
SCALE FEET

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SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

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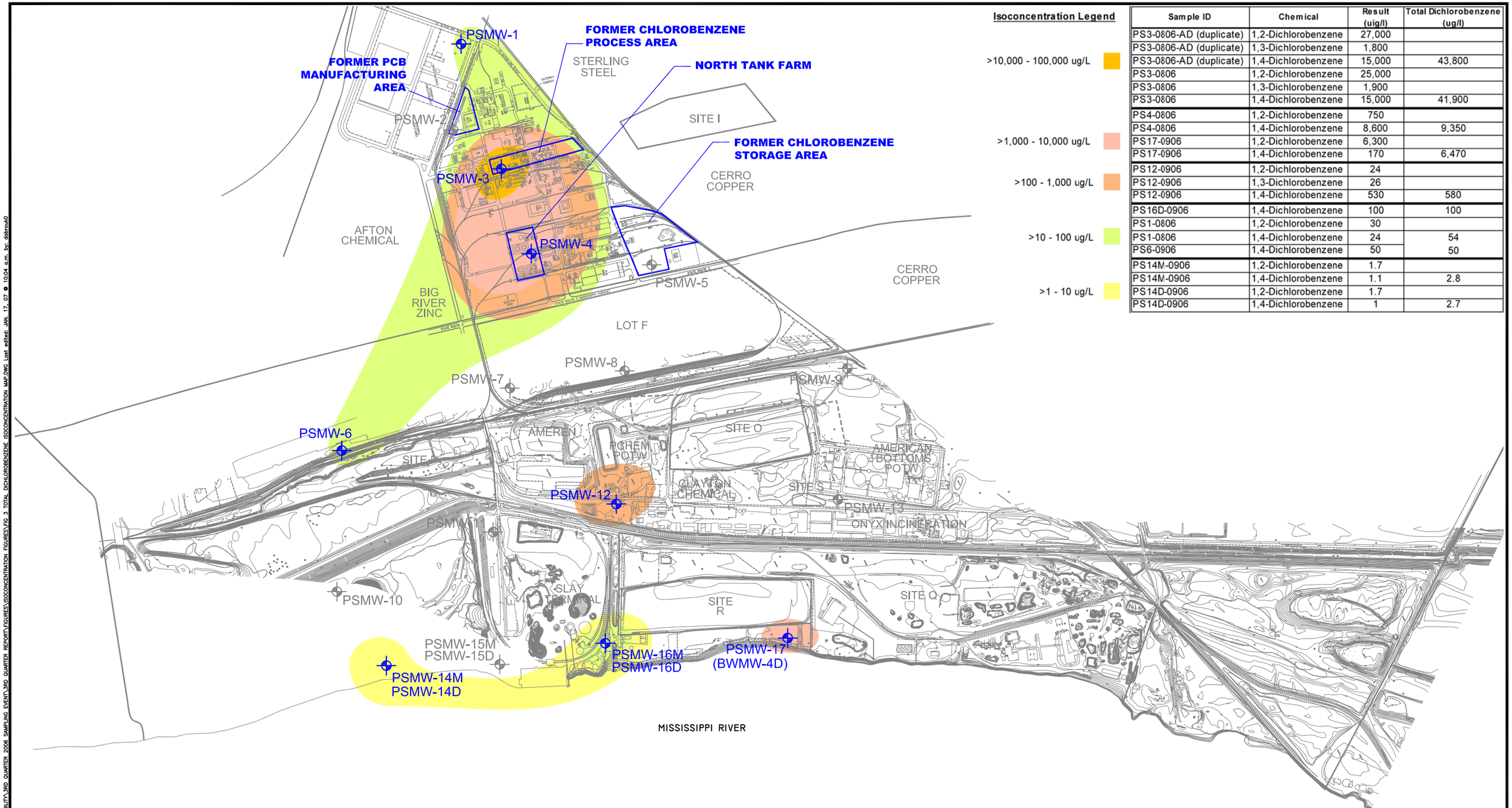
DRN. BY: dab 1/16/07
DSGN. BY: ac
CHKD. BY:

Chlorobenzene Isoconcentration Map

FIG. NO. 2

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\ISOCONCENTRATION FIGURES\FIG 2 CHLOROBENZENE ISOCONCENTRATION MAP.DWG Last edited: JAN. 17, 07 @ 10:02 a.m. by: dabroul0



Isoconcentration Legend

- >10,000 - 100,000 ug/L
- >1,000 - 10,000 ug/L
- >100 - 1,000 ug/L
- >10 - 100 ug/L
- >1 - 10 ug/L

Sample ID	Chemical	Result (uig/l)	Total Dichlorobenzene (ug/l)
PS3-0806-AD (duplicate)	1,2-Dichlorobenzene	27,000	
PS3-0806-AD (duplicate)	1,3-Dichlorobenzene	1,800	
PS3-0806-AD (duplicate)	1,4-Dichlorobenzene	15,000	43,800
PS3-0806	1,2-Dichlorobenzene	25,000	
PS3-0806	1,3-Dichlorobenzene	1,900	
PS3-0806	1,4-Dichlorobenzene	15,000	41,900
PS4-0806	1,2-Dichlorobenzene	750	
PS4-0806	1,4-Dichlorobenzene	8,600	9,350
PS17-0906	1,2-Dichlorobenzene	6,300	
PS17-0906	1,4-Dichlorobenzene	170	6,470
PS12-0906	1,2-Dichlorobenzene	24	
PS12-0906	1,3-Dichlorobenzene	26	
PS12-0906	1,4-Dichlorobenzene	530	580
PS16D-0906	1,4-Dichlorobenzene	100	100
PS1-0806	1,2-Dichlorobenzene	30	
PS1-0806	1,4-Dichlorobenzene	24	54
PS6-0906	1,4-Dichlorobenzene	50	50
PS14M-0906	1,2-Dichlorobenzene	1.7	
PS14M-0906	1,4-Dichlorobenzene	1.1	2.8
PS14D-0906	1,2-Dichlorobenzene	1.7	
PS14D-0906	1,4-Dichlorobenzene	1	2.7

NOTES:
1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

LEGEND

MONITORING WELL LOCATION

0 1000
SCALE FEET

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 GROUNDWATER DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

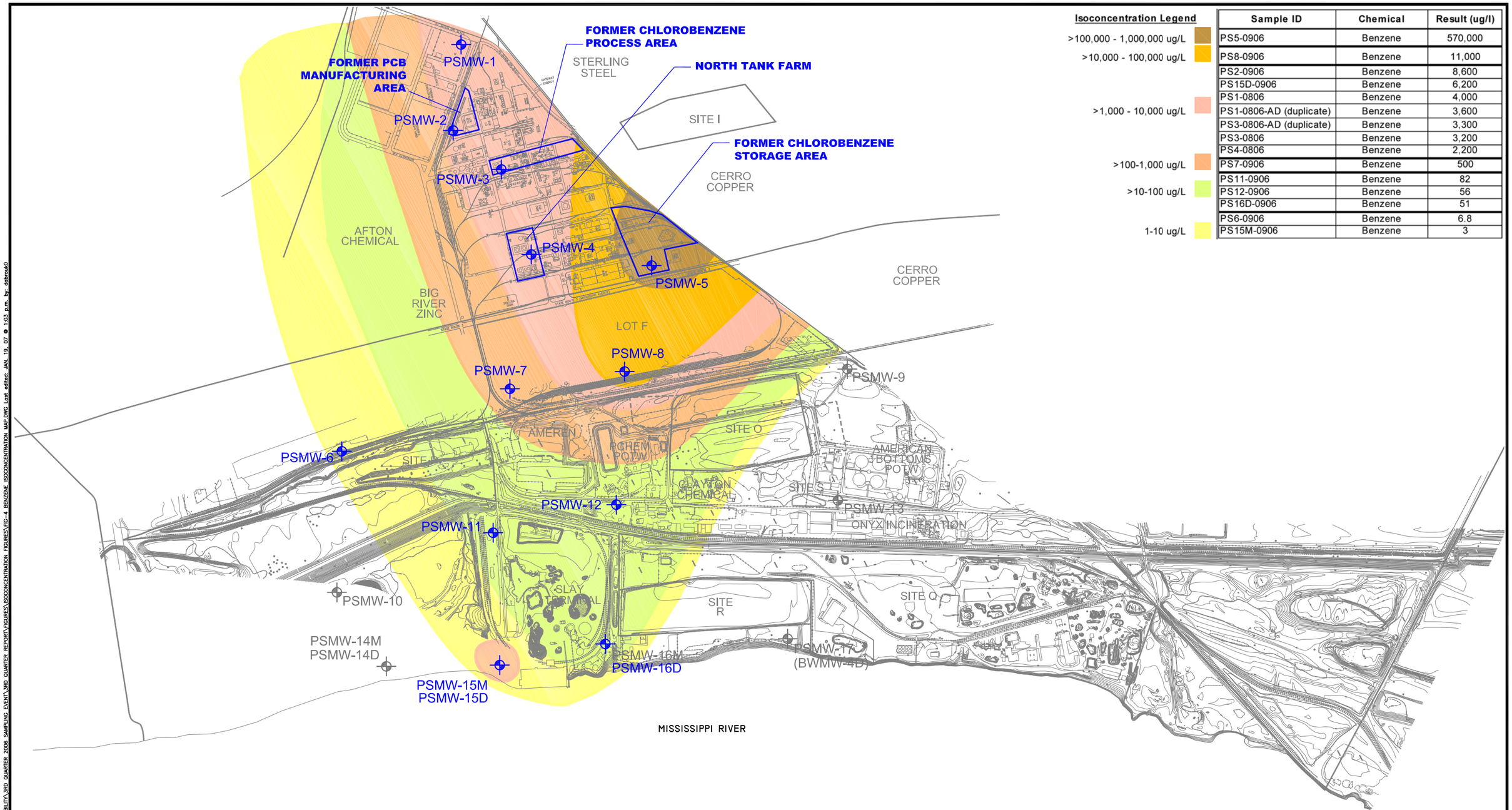
URS

DRN. BY: dab 1/16/07
DSGN. BY: ac
CHKD. BY:

Total Dichlorobenzene Isoconcentration Map

FIG. NO. 3

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\ISOCONCENTRATION FIGURES\FIG 3 TOTAL DICHLOROBENZENE ISOCONCENTRATION MAP.DWG Last edited: JAN. 17, 07 @ 10:04 a.m. by: dabnoul0



Isoconcentration Legend

- >100,000 - 1,000,000 ug/L
- >10,000 - 100,000 ug/L
- >1,000 - 10,000 ug/L
- >100-1,000 ug/L
- >10-100 ug/L
- 1-10 ug/L

Sample ID	Chemical	Result (ug/l)
PS5-0906	Benzene	570,000
PS8-0906	Benzene	11,000
PS2-0906	Benzene	8,600
PS15D-0906	Benzene	6,200
PS1-0806	Benzene	4,000
PS1-0806-AD (duplicate)	Benzene	3,600
PS3-0806-AD (duplicate)	Benzene	3,300
PS3-0806	Benzene	3,200
PS4-0806	Benzene	2,200
PS7-0906	Benzene	500
PS11-0906	Benzene	82
PS12-0906	Benzene	56
PS16D-0906	Benzene	51
PS6-0906	Benzene	6.8
PS15M-0906	Benzene	3

NOTES:

1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

LEGEND

MONITORING WELL LOCATION

0 1000
SCALE FEET

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

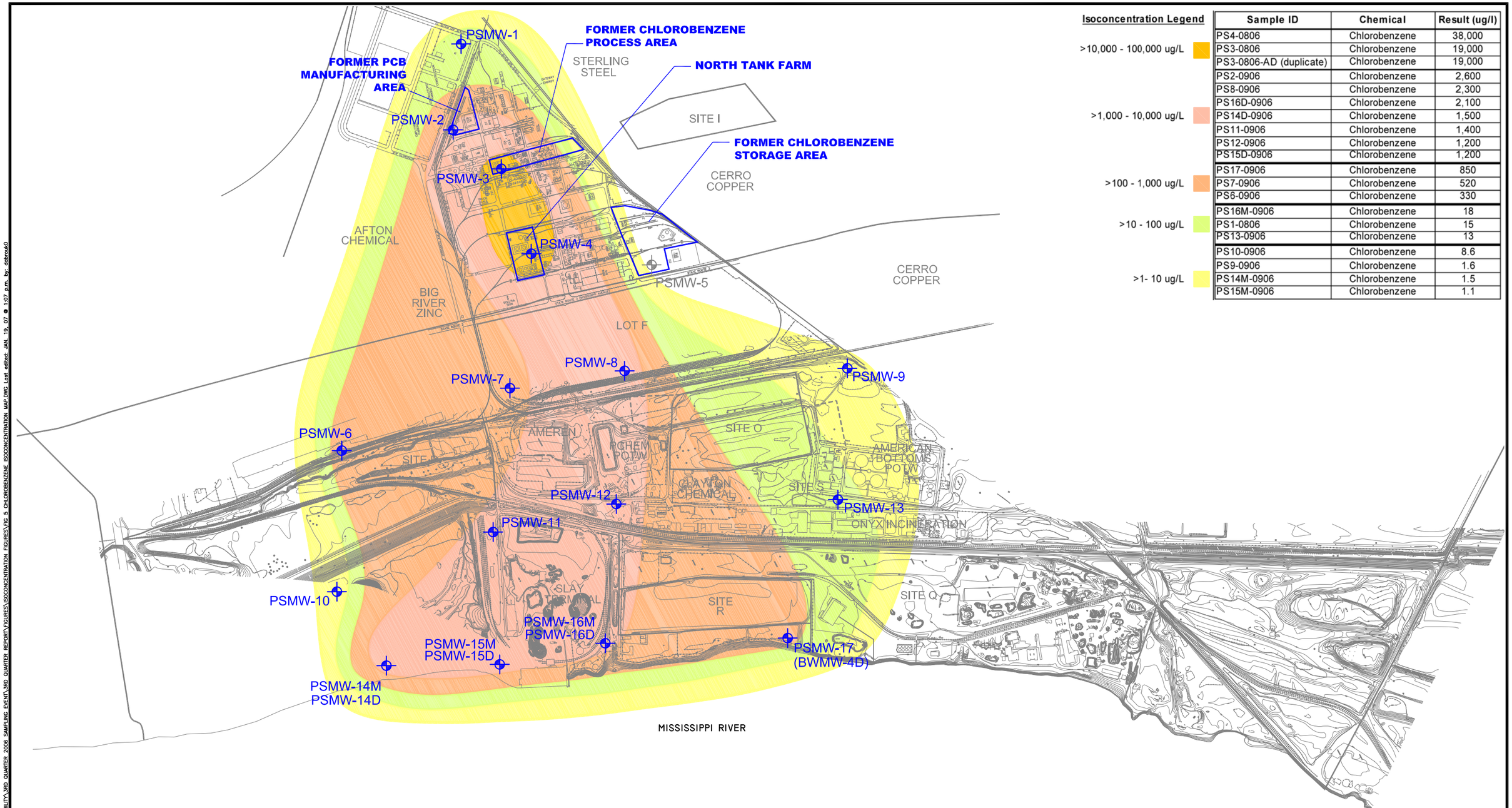
URS

DRN. BY: dab 1/16/07
DSGN. BY: jg
CHKD. BY:

3Q06 Benzene Isoconcentrations

FIG. NO. 4

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\ISOCONCENTRATION FIGURES\FIG-4 BENZENE ISOCONCENTRATION MAP.DWG Last edited: JAN. 19, 07 @ 1:03 p.m. by: dabrou40



Isoconcentration Legend

- >10,000 - 100,000 ug/L
- >1,000 - 10,000 ug/L
- >100 - 1,000 ug/L
- >10 - 100 ug/L
- >1- 10 ug/L

Sample ID	Chemical	Result (ug/l)
PS4-0806	Chlorobenzene	38,000
PS3-0806	Chlorobenzene	19,000
PS3-0806-AD (duplicate)	Chlorobenzene	19,000
PS2-0906	Chlorobenzene	2,600
PS8-0906	Chlorobenzene	2,300
PS16D-0906	Chlorobenzene	2,100
PS14D-0906	Chlorobenzene	1,500
PS11-0906	Chlorobenzene	1,400
PS12-0906	Chlorobenzene	1,200
PS15D-0906	Chlorobenzene	1,200
PS17-0906	Chlorobenzene	850
PS7-0906	Chlorobenzene	520
PS6-0906	Chlorobenzene	330
PS16M-0906	Chlorobenzene	18
PS1-0806	Chlorobenzene	15
PS13-0906	Chlorobenzene	13
PS10-0906	Chlorobenzene	8.6
PS9-0906	Chlorobenzene	1.6
PS14M-0906	Chlorobenzene	1.5
PS15M-0906	Chlorobenzene	1.1

LEGEND

MONITORING WELL LOCATION

NOTES:

1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

0 1000
SCALE FEET

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

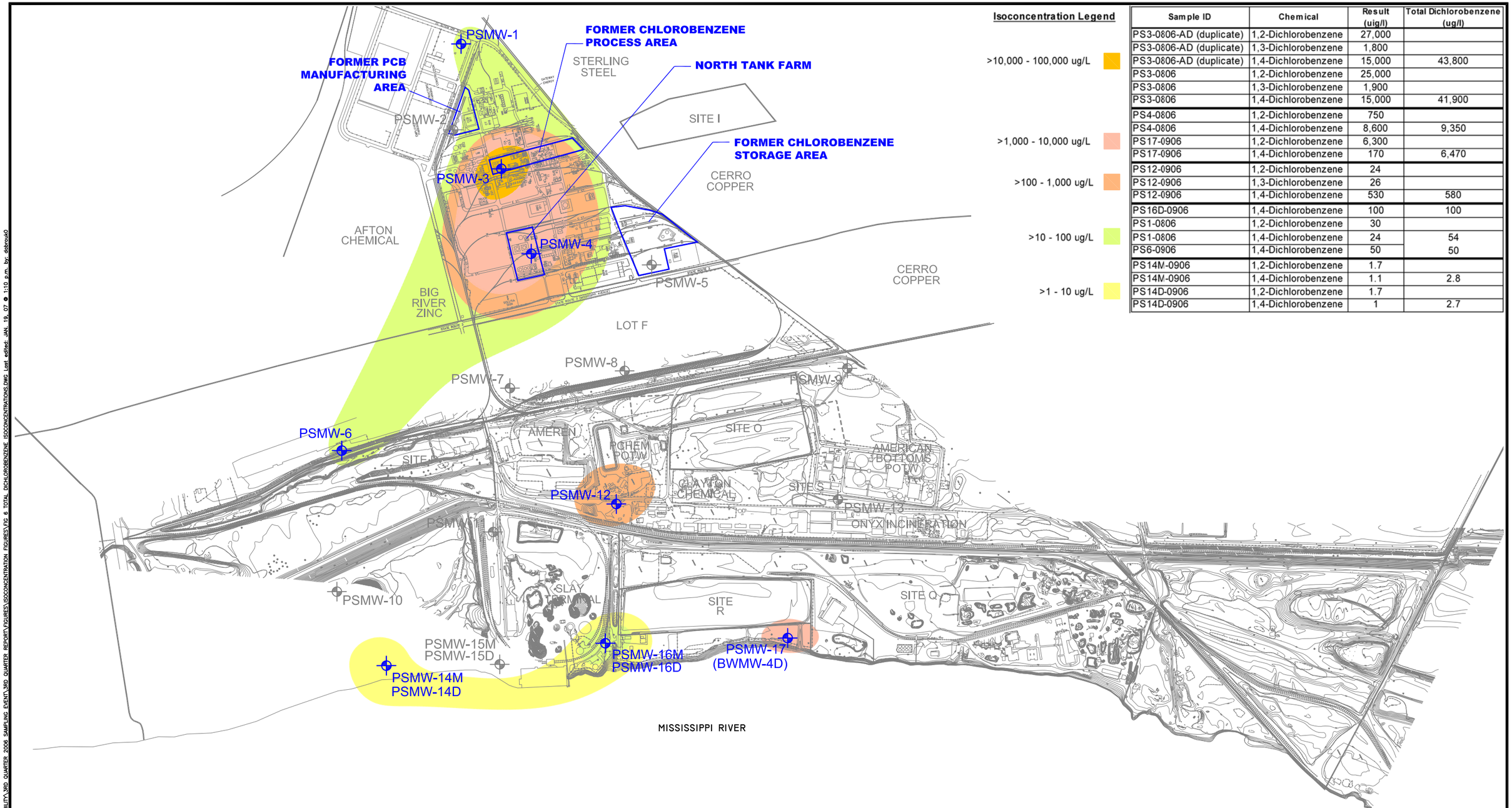
URS

DRN. BY: dab 1/16/07
DSGN. BY: ac
CHKD. BY:

3Q06 Chlorobenzene Isoconcentrations

FIG. NO. 5

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\ISOCONCENTRATION FIGURES\FIG 5 CHLOROBENZENE ISOCONCENTRATION MAP.DWG Last edited: JAN. 19, 07 @ 1:07 p.m. by: ddcrouk0



Isoconcentration Legend

- >10,000 - 100,000 ug/L
- >1,000 - 10,000 ug/L
- >100 - 1,000 ug/L
- >10 - 100 ug/L
- >1 - 10 ug/L

Sample ID	Chemical	Result (uig/l)	Total Dichlorobenzene (ug/l)
PS3-0806-AD (duplicate)	1,2-Dichlorobenzene	27,000	
PS3-0806-AD (duplicate)	1,3-Dichlorobenzene	1,800	
PS3-0806-AD (duplicate)	1,4-Dichlorobenzene	15,000	43,800
PS3-0806	1,2-Dichlorobenzene	25,000	
PS3-0806	1,3-Dichlorobenzene	1,900	
PS3-0806	1,4-Dichlorobenzene	15,000	41,900
PS4-0806	1,2-Dichlorobenzene	750	
PS4-0806	1,4-Dichlorobenzene	8,600	9,350
PS17-0906	1,2-Dichlorobenzene	6,300	
PS17-0906	1,4-Dichlorobenzene	170	6,470
PS12-0906	1,2-Dichlorobenzene	24	
PS12-0906	1,3-Dichlorobenzene	26	
PS12-0906	1,4-Dichlorobenzene	530	580
PS16D-0906	1,4-Dichlorobenzene	100	100
PS1-0806	1,2-Dichlorobenzene	30	
PS1-0806	1,4-Dichlorobenzene	24	54
PS6-0906	1,4-Dichlorobenzene	50	50
PS14M-0906	1,2-Dichlorobenzene	1.7	
PS14M-0906	1,4-Dichlorobenzene	1.1	2.8
PS14D-0906	1,2-Dichlorobenzene	1.7	
PS14D-0906	1,4-Dichlorobenzene	1	2.7

NOTES:
1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

LEGEND

MONITORING WELL LOCATION

0 1000
SCALE FEET

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

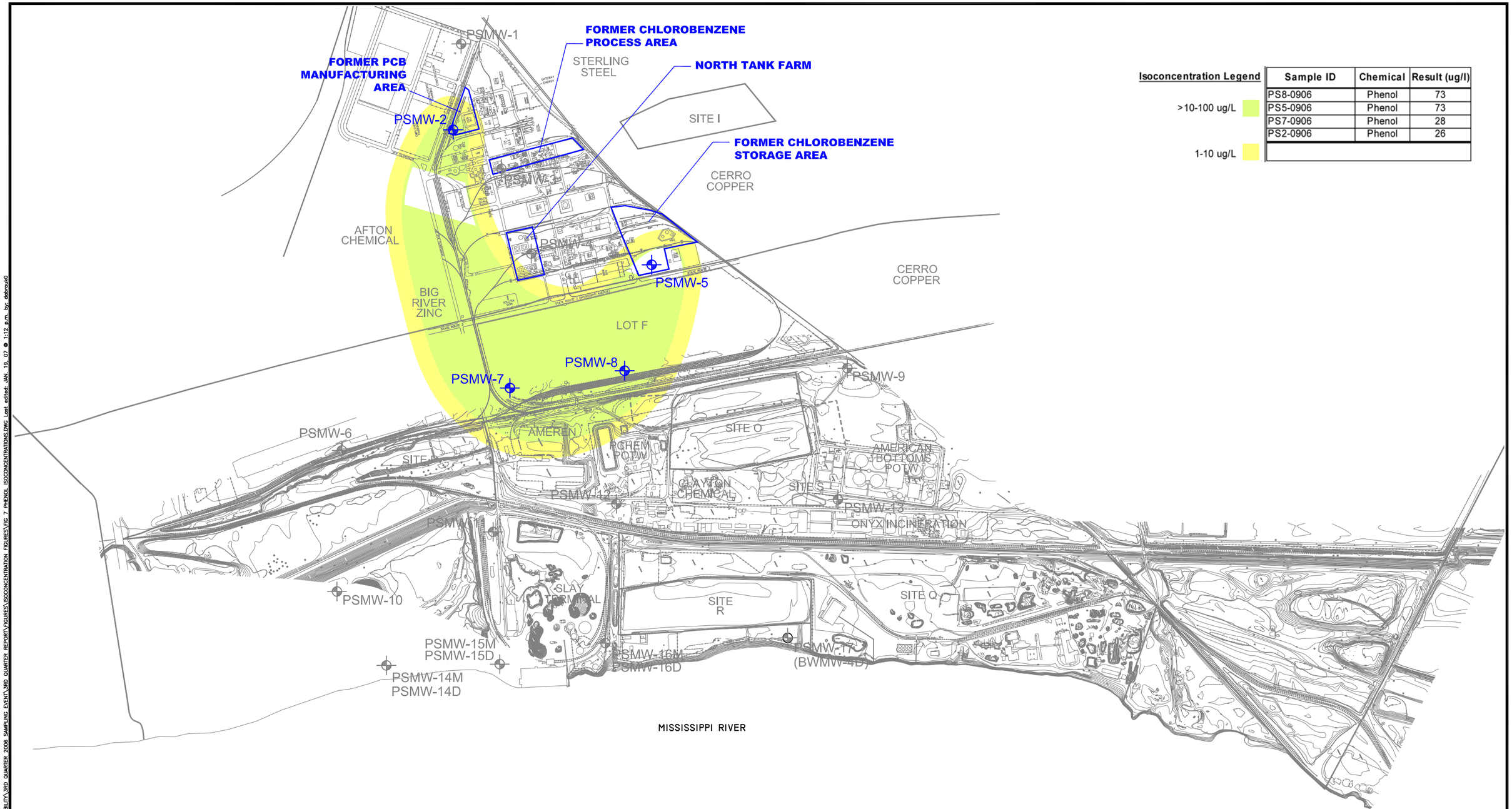
URS

DRN. BY: dab 1/16/07
DSGN. BY: ac
CHKD. BY:

3Q06 Total Dichlorobenzene Isoconcentrations

FIG. NO. 6

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\ISOCONCENTRATION FIGURES\FIG 6 TOTAL DICHLOROBENZENE ISOCONCENTRATIONS.DWG Last edited: JAN. 19, 07 @ 1:10 p.m. by: dabroud0



Isoconcentration Legend

	Sample ID	Chemical	Result (ug/l)
	PS8-0906	Phenol	73
>10-100 ug/L	PS5-0906	Phenol	73
	PS7-0906	Phenol	28
	PS2-0906	Phenol	26
1-10 ug/L			

NOTES:
1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

LEGEND

MONITORING WELL LOCATION

0 1000
SCALE FEET

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

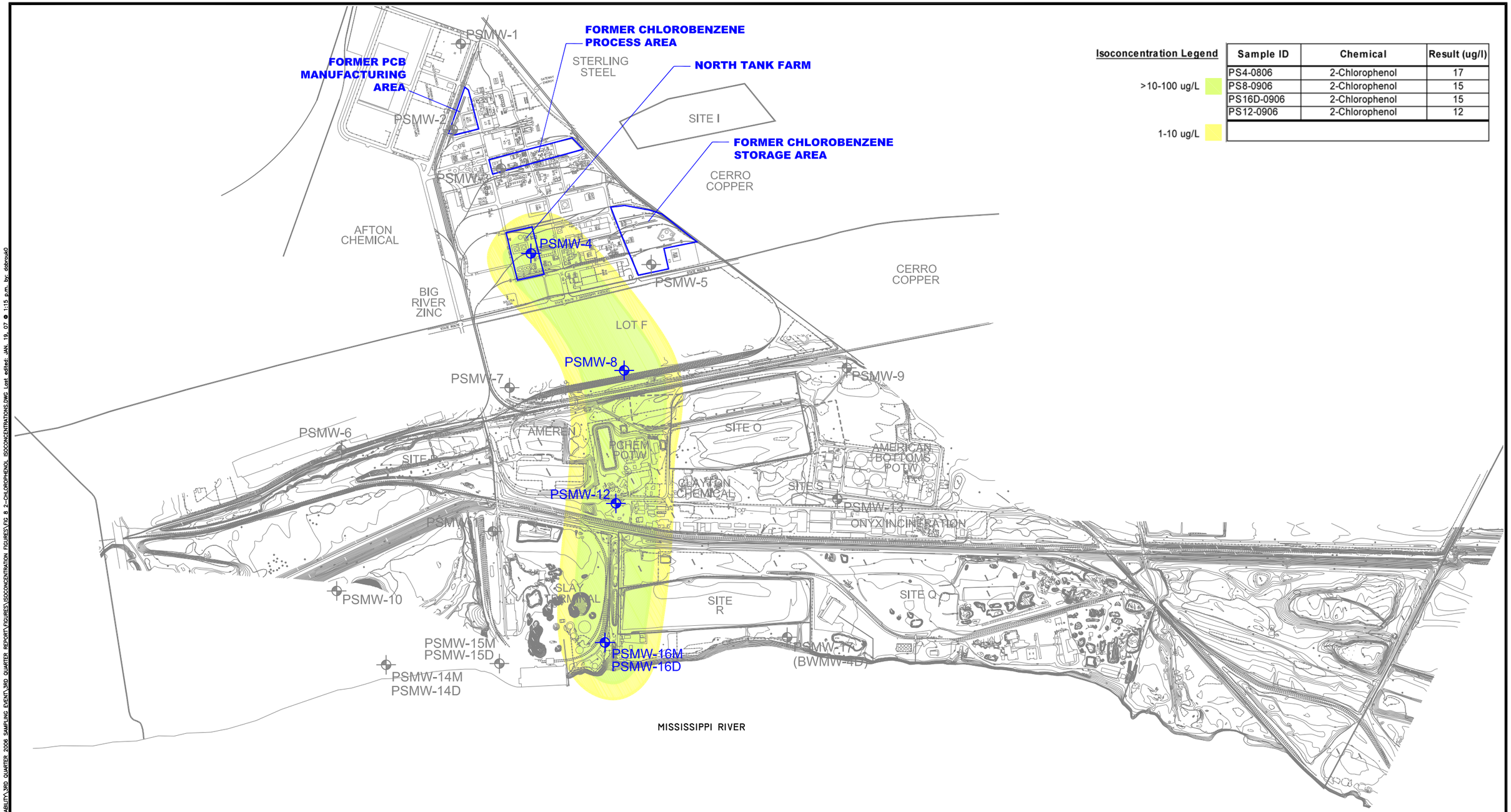
URS

DRN. BY: dab 1/16/07
DSGN. BY: ac
CHKD. BY:

3Q06 Phenol Isoconcentrations

FIG. NO. 7

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\ISOCONCENTRATION FIGURES\FIG 7 PHENOL ISOCONCENTRATIONS.DWG Last edited: JAN. 19, 07 @ 1:12 p.m. by: dabroub0



Isoconcentration Legend

>10-100 ug/L

1-10 ug/L

Sample ID	Chemical	Result (ug/l)
PS4-0806	2-Chlorophenol	17
PS8-0906	2-Chlorophenol	15
PS16D-0906	2-Chlorophenol	15
PS12-0906	2-Chlorophenol	12

LEGEND

MONITORING WELL LOCATION

NOTES:

1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

0 1000

SCALE FEET

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

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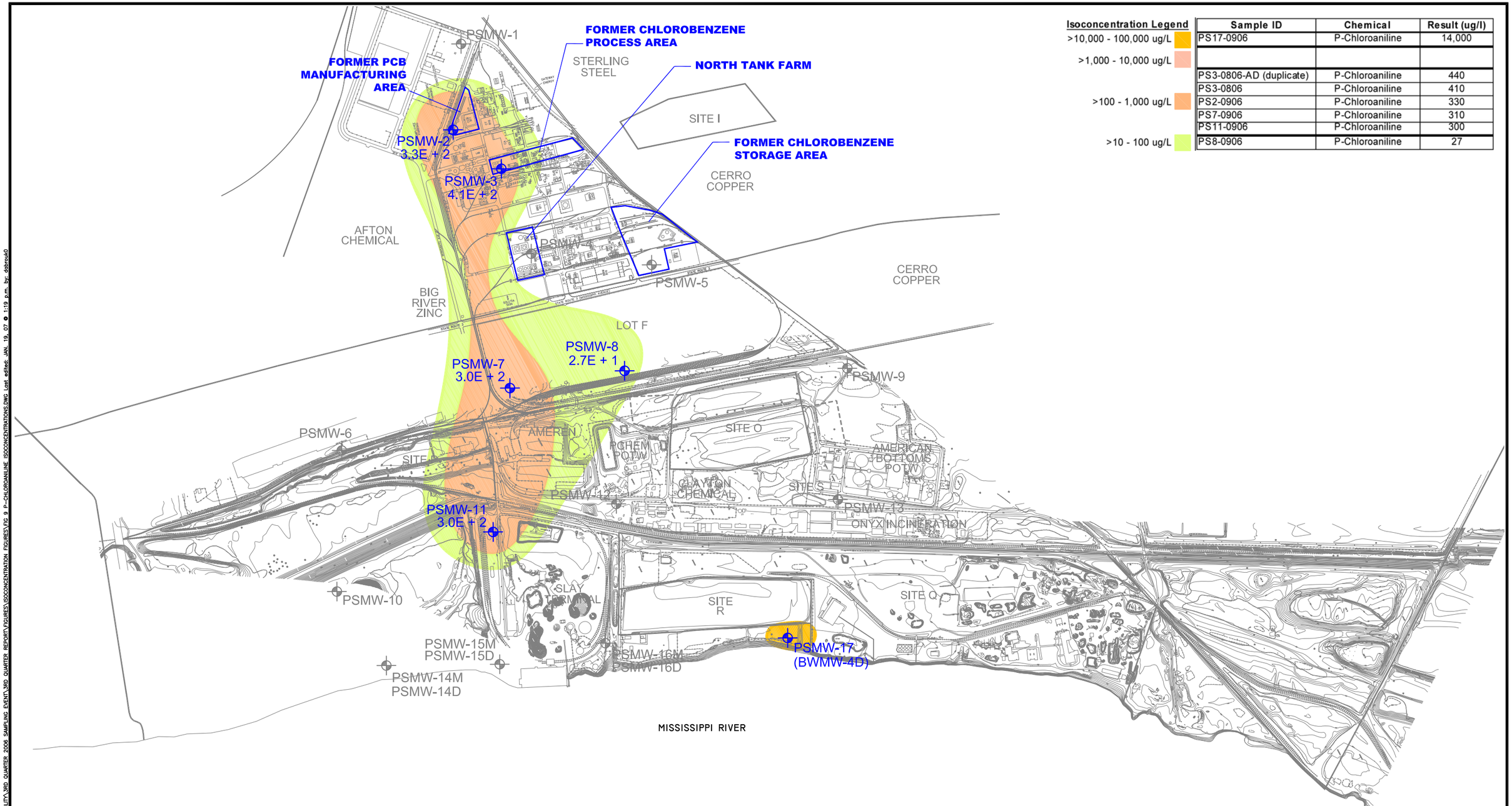
DRN. BY: dab 1/16/07
DSGN. BY: ac
CHKD. BY:

3Q06 2-Chlorophenol Isoconcentrations

FIG. NO. 8

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\ISOCONCENTRATION FIGURES\FIG 8 2-CHLOROPHENOL ISOCONCENTRATIONS.DWG Last edited: JAN. 19, 07 @ 1:15 p.m. by: ddcroul40



Isoconcentration Legend

- >10,000 - 100,000 ug/L
- >1,000 - 10,000 ug/L
- >100 - 1,000 ug/L
- >10 - 100 ug/L

Sample ID	Chemical	Result (ug/l)
PS17-0906	P-Chloroaniline	14,000
PS3-0806-AD (duplicate)	P-Chloroaniline	440
PS3-0806	P-Chloroaniline	410
PS2-0906	P-Chloroaniline	330
PS7-0906	P-Chloroaniline	310
PS11-0906	P-Chloroaniline	300
PS8-0906	P-Chloroaniline	27

LEGEND

MONITORING WELL LOCATION

NOTES:

1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

0 1000
SCALE FEET

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

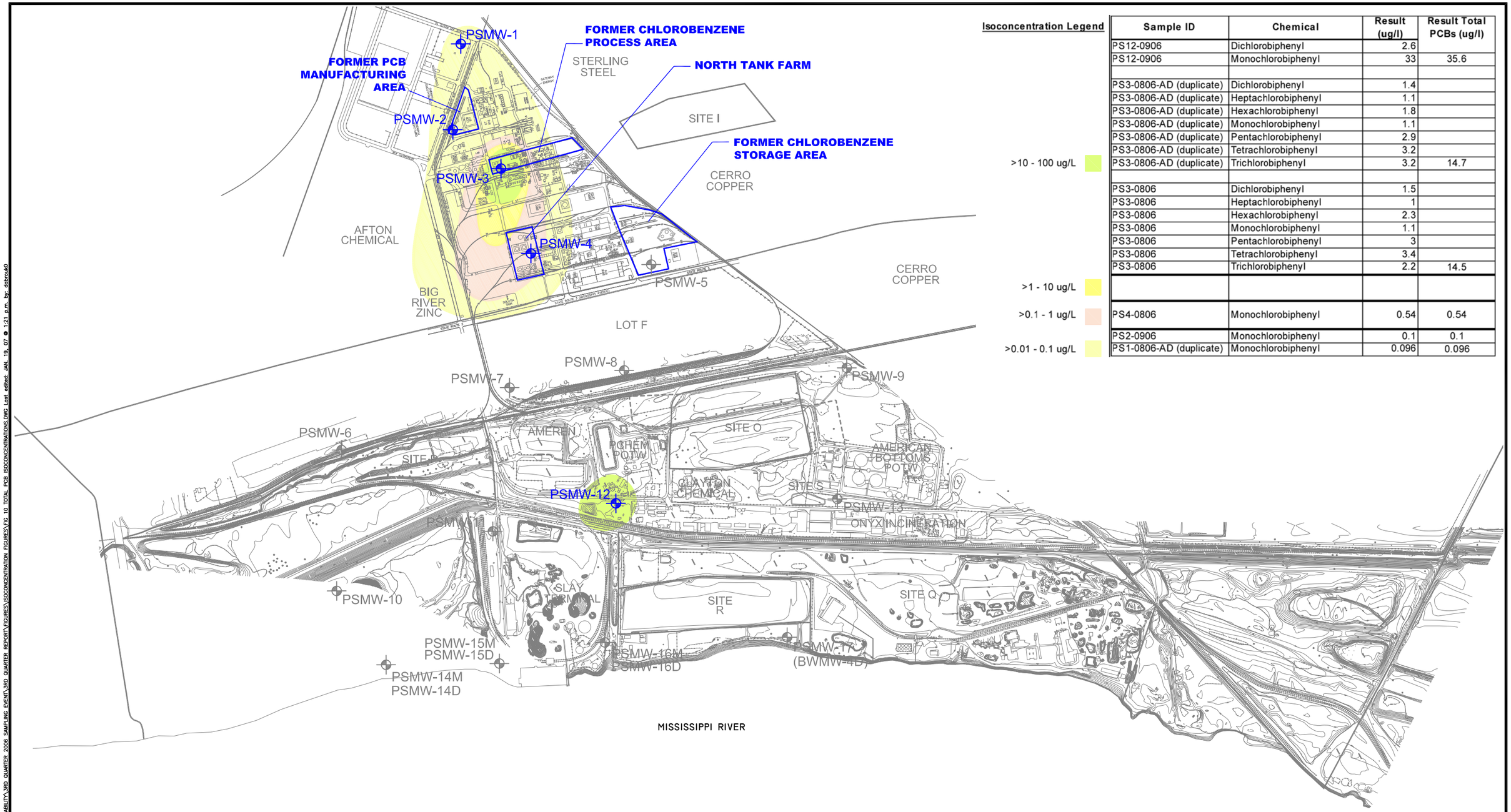
URS

DRN. BY: dab 1/17/07
DSGN. BY: ac
CHKD. BY:

3Q06 p-Chloroaniline Isoconcentrations

FIG. NO. 9

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\ISOCONCENTRATION FIGURES\FIG 9 P-CHLOROANILINE ISOCONCENTRATIONS.DWG Last edited: JAN. 19, 07 @ 1:19 p.m. by: dabroud0



Isoconcentration Legend

- >10 - 100 ug/L
- >1 - 10 ug/L
- >0.1 - 1 ug/L
- >0.01 - 0.1 ug/L

Sample ID	Chemical	Result (ug/l)	Result Total PCBs (ug/l)
PS12-0906	Dichlorobiphenyl	2.6	
PS12-0906	Monochlorobiphenyl	33	35.6
PS3-0806-AD (duplicate)	Dichlorobiphenyl	1.4	
PS3-0806-AD (duplicate)	Heptachlorobiphenyl	1.1	
PS3-0806-AD (duplicate)	Hexachlorobiphenyl	1.8	
PS3-0806-AD (duplicate)	Monochlorobiphenyl	1.1	
PS3-0806-AD (duplicate)	Pentachlorobiphenyl	2.9	
PS3-0806-AD (duplicate)	Tetrachlorobiphenyl	3.2	
PS3-0806-AD (duplicate)	Trichlorobiphenyl	3.2	14.7
PS3-0806	Dichlorobiphenyl	1.5	
PS3-0806	Heptachlorobiphenyl	1	
PS3-0806	Hexachlorobiphenyl	2.3	
PS3-0806	Monochlorobiphenyl	1.1	
PS3-0806	Pentachlorobiphenyl	3	
PS3-0806	Tetrachlorobiphenyl	3.4	
PS3-0806	Trichlorobiphenyl	2.2	14.5
PS4-0806	Monochlorobiphenyl	0.54	0.54
PS2-0906	Monochlorobiphenyl	0.1	0.1
PS1-0806-AD (duplicate)	Monochlorobiphenyl	0.096	0.096

LEGEND

MONITORING WELL LOCATION

NOTES:

1) WELLS SHOWN IN GRAY SCALE ARE NON-DETECT FOR THE SPECIFIC CONSTITUENT.
2) ISOCONCENTRATION CONTOURS ARE PLOTTED LOGARITHMICALLY.
3) UNITS ug/L MICROGRAMS/LITER.
4) MONITORING WELLS ARE SCREENED IN COMBINATIONS OF THE SHALLOW, MIDDLE, AND DEEP HYDROGEOLOGIC UNITS. FOR PRESENTATION PURPOSES, DATA FROM ALL WELLS ARE SHOWN.
5) FOR NESTED WELL LOCATIONS, CONTOURS ARE BASED ON THE HIGHER VALUE.

0 1000
SCALE FEET

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00004

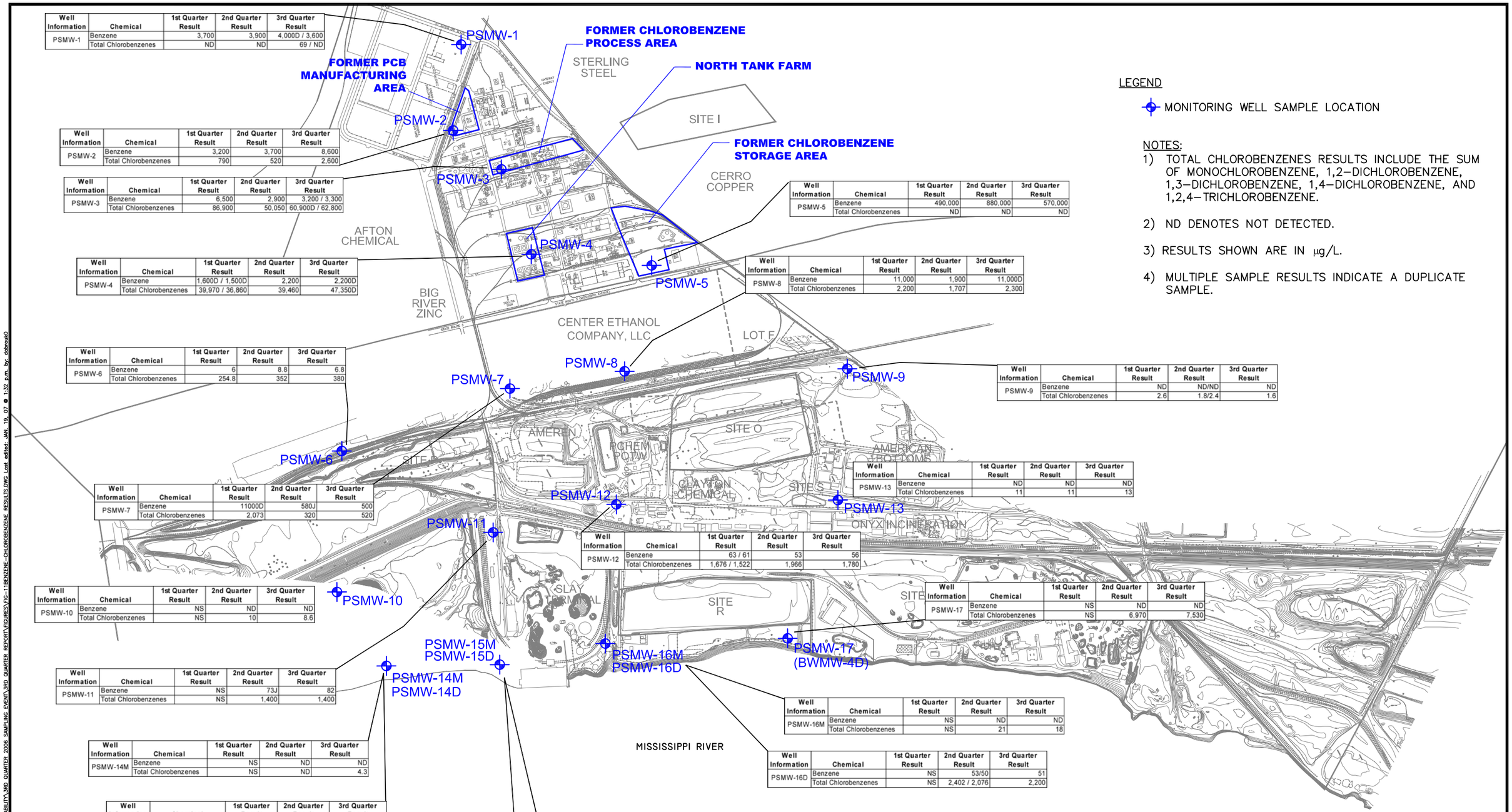
URS

DRN. BY: dab 1/17/07
DSGN. BY: ac
CHKD. BY:

3Q06 Total PCB Isoconcentrations

FIG. NO. 10

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\ISOCONCENTRATION FIGURES\FIG 10 TOTAL PCB ISOCONCENTRATIONS.DWG Last edited: JAN. 19, 07 @ 1:21 p.m. by: dabroul0



Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-1	Benzene	3,700	3,900	4,000D / 3,600
	Total Chlorobenzenes	ND	ND	69 / ND

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-2	Benzene	3,200	3,700	8,600
	Total Chlorobenzenes	790	520	2,600

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-3	Benzene	6,500	2,900	3,200 / 3,300
	Total Chlorobenzenes	86,900	50,050	60,900D / 62,800

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-4	Benzene	1,600D / 1,500D	2,200	2,200D
	Total Chlorobenzenes	39,970 / 36,860	39,460	47,350D

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-5	Benzene	490,000	880,000	570,000
	Total Chlorobenzenes	ND	ND	ND

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-6	Benzene	6	8.8	6.8
	Total Chlorobenzenes	254.8	352	380

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-7	Benzene	11000D	580J	500
	Total Chlorobenzenes	2,073	320	520

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-8	Benzene	11,000	1,900	11,000D
	Total Chlorobenzenes	2,200	1,707	2,300

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-9	Benzene	ND	ND/ND	ND
	Total Chlorobenzenes	2.6	1.8/2.4	1.6

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-10	Benzene	NS	ND	ND
	Total Chlorobenzenes	NS	10	8.6

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-11	Benzene	NS	73J	82
	Total Chlorobenzenes	NS	1,400	1,400

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-12	Benzene	63 / 61	53	56
	Total Chlorobenzenes	1,676 / 1,522	1,966	1,780

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-13	Benzene	ND	ND	ND
	Total Chlorobenzenes	11	11	13

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-14M	Benzene	NS	ND	ND
	Total Chlorobenzenes	NS	ND	4.3

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-14D	Benzene	NS	ND	ND
	Total Chlorobenzenes	NS	1,200	1,503D

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-15M	Benzene	NS	ND	3
	Total Chlorobenzenes	NS	ND	1.1

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-15D	Benzene	NS	6800J	6,200
	Total Chlorobenzenes	NS	1,300	1,200

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-16M	Benzene	NS	ND	ND
	Total Chlorobenzenes	NS	21	18

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-16D	Benzene	NS	53/50	51
	Total Chlorobenzenes	NS	2,402 / 2,076	2,200

Well Information	Chemical	1st Quarter Result	2nd Quarter Result	3rd Quarter Result
PSMW-17	Benzene	NS	ND	ND
	Total Chlorobenzenes	NS	6,970	7,530

LEGEND

⌖ MONITORING WELL SAMPLE LOCATION

NOTES:

1) TOTAL CHLOROBENZENES RESULTS INCLUDE THE SUM OF MONOCHLOROBENZENE, 1,2–DICHLOROBENZENE, 1,3–DICHLOROBENZENE, 1,4–DICHLOROBENZENE, AND 1,2,4–TRICHLOROBENZENE.

2) ND DENOTES NOT DETECTED.

3) RESULTS SHOWN ARE IN µg/L.

4) MULTIPLE SAMPLE RESULTS INDICATE A DUPLICATE SAMPLE.

PLUME STABILITY MONITORING PROGRAM
3RD QUARTER 2006 DATA REPORT
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

PROJECT NO. 21561618.00003

URS

DRN. BY: chs 10/19/06
DSGN. BY: mpm
CHKD. BY: bb

2006 Benzene & Total Chlorobenzene Results

FIG. NO. 11

File: P:\ENVIRONMENTAL\21561618 SOLUTIA WGK PLUME STABILITY\3RD QUARTER 2006 SAMPLING EVENT\3RD QUARTER REPORT\FIGURES\FIG-11BENZENE-CHLOROBENZENE RESULTS.DWG Last edited: JAN. 19, 07 @ 1:32 p.m. by: dabroulo

Tables

See last page of table for notes.

Table 1
Monitoring Well Gauging Information

Well ID	Construction Details						August 28-30, 2006				Area
	Ground Elevation (ft)* NAVD 88	TOC Elevation (ft)* NAVD 88	Top of Screen Depth (ft)**	Bottom of Screen Depth (ft)**	Top of Screen Interval (Elevation)**	Bottom of Screen Interval (Elevation)**	Depth to Water (ft) ***	Depth to Product (ft) ***	Depth to Bottom (ft)***	Water Elevation (ft)*	
Shallow Hydrogeologic Unit (SHU 395-380 ft NAVD)											
B-22A	424.98	426.75	27.8	32.8	397.18	392.18	27.55	--	36.73	399.20	Site R
B-24A	421.07	421.04	20.3	25.3	400.77	395.77	19.99	--	28.45	401.05	Site R
B-25A	425.31	427.07	28	33	397.31	392.31	31.33	--	37.14	395.74	Site R
B-25B	424.13	426.06	37.3	47.3	386.83	376.83	42.59	--	51.9	383.47	Site R
B-28A	420.91	421.71	25.3	30.3	395.61	390.61	29.35	--	34.1	392.36	Site R
B-29A	426.15	428.04	26	31	400.15	395.15	Dry	--	34.02	--	Site R
B-29B	425.64	427.63	37.3	47.3	388.34	378.34	44.68	--	51.45	382.95	Site R
CA-3	412.62	414.55	15	25	397.62	387.62	21.99	--	25	392.56	WGK
GM-1	410.13	411.57	19	34	391.13	376.13	19.75	--	36.34	391.82	WGK
GM-2	413.83	416.23	26	41	387.83	372.83	26.99	--	42.4	389.24	WGK
GM-4A	402.66	404.51	13	28	389.66	374.66	16.74	--	26.96	387.77	Lot F
GM-5	411.56	413.63	21	36	390.56	375.56	26.64	--	38.59	386.99	Lot F
GM-6A	411.68	413.32	19	34	392.68	377.68	24.79	--	35.59	388.53	Lot F
GM-7	411.66	413.60	21	36	390.66	375.66	26.15	--	38.66	387.45	Lot F
GM-8	415.14	417.19	19	34	396.14	381.14	29.11	--	35.81	388.08	Lot F
GM-9A	411.21	413.24	13	28	398.21	383.21	18.95	--	29.46	394.29	WGK
GM-11	409.74	411.93	10	21	399.74	388.74	20.45	--	27.65	391.48	WGK
GM-15	411.04	412.71	15	38	396.04	373.04	20.72	--	41.06	391.99	WGK
GM-18A	410.09	412.87	18	38	392.09	372.09	25.3	--	40.41	387.57	Lot F
GM-31A	416.09	417.31	19	39	397.09	377.09	29.46	--	40.97	387.85	Lot F
GM-33	408.26	409.72	5	25	403.26	383.26	20.47	--	23.23	389.25	WGK
GM-46	411.49	413.80	5	25	406.49	386.49	18.2	--	29.74	395.60	WGK
GM-59A	410.28	412.25	19	39	391.28	371.28	NG	NG	41.57	--	Lot F
GM-60A	412.23	414.24	18	38	394.23	374.23	NG	NG	40.53	--	Sauget Area 2
GWE-10S (PIEZ-6S)	410.15	412.88	17	27	393.15	383.15	24.5	--	28.84	388.38	Lot F
GWE-14S (TRA5-PZCSHU)	420.41	422.85	35	45	385.41	375.41	39.22	--	47.45	383.63	WGK
GWE-1S (PIEZ-1S)	412.80	415.69	13	23	399.80	389.80	NG	NG	23.56	--	Sauget Area 2
GWE-2S (PIEZ-2S)	417.45	417.10	17	27	400.45	390.45	Dry	--	26.45	--	Sauget Area 2
GWE-4S (TRA3-PZASHU)	406.16	405.75	20	30	386.16	376.16	19.1	--	28.56	386.65	WGK
GWE-6S (TRA3-PZBSHU)	412.16	415.35	24	34	388.16	378.16	27.65	--	35.33	387.70	Lot F
GWE-7S (TRA1-PZBSHU)	411.59	411.18	23	33	388.59	378.59	19.03	--	29.03	392.15	WGK
PSMW-5	409.49	412.31	16.86	21.86	392.63	387.63	22.85	--	24.68	389.46	WGK
Middle Hydrogeologic Unit (MHU 380-350 ft NAVD)											
B-24C	421.34	421.34	56.8	66.8	364.54	354.54	38.67	--	70.58	382.67	Site R
B-28B	420.61	421.38	37.3	47.3	383.31	373.31	39.81	--	51.47	381.57	Site R
GM-3	405.12	409.06	21	36	384.12	369.12	23.33	--	40.11	385.73	Lot F
GM-60B	412.56	414.88	52	72	360.56	340.56	NG	NG	74.85	--	Sauget Area 2
GWE-14M (TRA5-PZCMHU)	420.52	422.93	59	65	361.52	355.52	39.26	--	66.97	383.67	WGK
GWE-15M (TRA3-PZCMHU)	409.64	409.32	53	59	356.64	350.64	20.09	--	58.77	389.23	WGK
GWE-15S (TRA3-PZCSHU)	409.32	408.86	29	39	380.32	370.32	19.65	--	38.28	389.21	WGK
GWE-4M (TRA3-PZAMHU)	406.08	405.66	43	49	363.08	357.08	19	--	48.16	386.66	WGK

See last page of table for notes.

Table 1
Monitoring Well Gauging Information

Well ID	Construction Details						August 28-30, 2006				Area
	Ground Elevation (ft)* NAVD 88	TOC Elevation (ft)* NAVD 88	Top of Screen Depth (ft)**	Bottom of Screen Depth (ft)**	Top of Screen Interval (Elevation)**	Bottom of Screen Interval (Elevation)**	Depth to Water (ft) ***	Depth to Product (ft) ***	Depth to Bottom (ft)***	Water Elevation (ft)*	
GWE-6M (TRA3-PZBMHU)	412.23	415.29	48	54	364.23	358.23	NG	NG	57.06	--	WGK
GWE-7M (TRA1-PZBMHU)	411.55	411.09	43	49	368.55	362.55	18.98	--	48.18	392.11	WGK
PSMW-1	409.37	412.59	34.56	39.56	374.81	369.81	20.16	--	42.78	392.43	WGK
PSMW-14M	410.84	412.98	40.36	45.36	370.48	365.48	31.19	--	47.50	381.79	WGK
PSMW-15M	419.53	419.03	50.78	55.78	368.75	363.75	36.54	--	55.78	382.49	WGK
PSMW-16M	425.00	424.73	58.49	63.49	366.51	361.51	42.14	--	63.49	382.59	WGK
TRA5-PZBMHU	418.33	421.35	59	65	359.33	353.33	38.38	--	67.68	382.97	WGK
Deep Hydrogeologic Unit (DHU 350 ft NAVD - Bedrock)											
DNAPL-K-1	413.07	415.56	108.2	123.2	304.87	289.87	NG	NG	123.15	--	WGK
DNAPL-K-2	407.94	407.72	97.63	112.63	310.31	295.31	16.79	--	112	390.93	WGK
DNAPL-K-3	412.13	411.91	104.8	119.8	307.33	292.33	20.51	--	119.33	391.40	WGK
DNAPL-K-4	409.48	409.15	102.55	117.55	306.93	291.93	18.24	--	117.03	390.91	WGK
DNAPL-K-5	412.27	411.91	102.15	117.15	310.12	295.12	20.61	--	116.6	391.30	WGK
DNAPL-K-6	410.43	410.09	102.47	117.47	307.96	292.96	19.72	--	116.94	390.37	WGK
DNAPL-K-7	408.32	407.72	100.4	115.4	307.92	292.92	NG	NG	115.36	--	WGK
DNAPL-K-8	408.56	411.38	102.65	117.65	305.91	290.91	NG	NG	117.57	--	WGK
DNAPL-K-9	403.70	405.96	97.42	112.42	306.28	291.28	NG	NG	112.42	--	WGK
DNAPL-K-10	413.50	413.25	105.43	120.43	308.07	293.07	NG	NG	120.4	--	WGK
DNAPL-K-11	412.20	411.78	105.46	120.46	306.74	291.74	22.05	--	120.34	389.73	WGK
GM-4B	402.35	405.35	67	87	335.35	315.35	17.98	--	86.85	387.37	Lot F
GM-6B	411.63	414.78	68	88	343.63	323.63	26.24	--	91.05	388.54	Lot F
GM-9B	409.81	411.55	55	75	354.81	334.81	17.61	--	74.52	393.94	WGK
GM-9C	409.54	411.21	88	108	321.54	301.54	17.00	--	108.4	394.21	WGK
GM-12B	412.84	415.51	69	89	343.84	323.84	28.21	--	91.3	387.30	WGK
GM-12C	412.91	415.76	94	114	318.91	298.91	23.42	--	115.71	392.34	WGK
GM-17B	407.65	410.68	58	78	349.65	329.65	22.35	--	76.68	388.33	Lot F
GM-17C	407.22	410.14	87	107	320.22	300.22	22.35	--	104.9	387.79	Lot F
GM-18B	409.79	412.71	72	92	337.79	317.79	25.06	--	95.1	387.65	Lot F
GM-27B	421.75	424.71	62	82	359.75	339.75	42.69	--	85.53	382.02	Site R
GM-27C	421.70	425.42	85	105	336.70	316.70	43.45	--	108.36	381.97	Site R
GM-31B	417.40	417.61	65.5	85.5	351.90	331.90	29.72	--	86.21	387.89	Lot F
GM-31C	417.05	417.97	97	117	320.05	300.05	30.09	--	119.4	387.88	Lot F
GWE-1M (PIEZ-1M)	412.80	415.45	67	77	345.80	335.80	NG	NG	79.47	--	Sauget Area 2
GWE-1D (PIEZ-1D)	412.80	415.60	117	127	295.80	285.80	NG	NG	128.66	--	Sauget Area 2
GWE-2M (PIEZ-2M)	417.45	417.14	68	78	349.45	339.45	34.75	--	76.11	382.39	Sauget Area 2
GWE-2D (PIEZ-2D)	417.45	417.14	127	137	290.45	280.45	34.79	--	136.88	382.35	Sauget Area 2
GWE-4D (TRA3-PZADHU)	406.05	405.74	74	80	332.05	326.05	19.11	--	78.86	386.63	WGK
GWE-6D (TRA3-PZBDHU)	412.12	415.27	78	84	334.12	328.12	28.04	--	85.97	387.23	WGK
GWE-7D (TRA1-PZBDHU)	411.56	411.30	77	83	334.56	328.56	19.21	--	81.98	392.09	WGK
GWE-10M (PIEZ-6M)	410.15	412.78	62	72	348.15	338.15	24.34	--	74.04	388.44	Lot F
GWE-10D (PIEZ-6D)	410.15	412.87	102.5	112.5	307.65	297.65	24.31	--	114.93	388.56	Lot F
GWE-14D (TRA5-PZCDHU)	420.47	422.90	90	96	330.47	324.47	39.10	--	96.74	383.80	WGK

See last page of table for notes.

Table 1
Monitoring Well Gauging Information

Well ID	Construction Details						August 28-30, 2006				Area
	Ground Elevation (ft)* NAVD 88	TOC Elevation (ft)* NAVD 88	Top of Screen Depth (ft)**	Bottom of Screen Depth (ft)**	Top of Screen Interval (Elevation)**	Bottom of Screen Interval (Elevation)**	Depth to Water (ft) ***	Depth to Product (ft) ***	Depth to Bottom (ft)***	Water Elevation (ft)*	
GWE-15D (TRA3-PZCDHU)	409.52	409.18	82	88	327.52	321.52	20.03	--	85.25	389.15	WGK
MW-3B	411.24	413.47	60	80	351.24	331.24	26.87	--	82.27	386.60	Lot F
MW-3C	410.89	413.05	85	105	325.89	305.89	26.52	--	107.72	386.53	Lot F
MW-5B	411.71	414.19	60	80	351.71	331.71	27.09	--	79.89	387.10	Lot F
MW-5C	411.42	413.77	85	105	326.42	306.42	26.99	--	107.32	386.78	Lot F
MW-7B	409.44	411.90	60	80	349.44	329.44	24.80	--	83.56	387.10	Lot F
MW-7C	409.35	411.86	85	105	324.35	304.35	24.74	--	107.49	387.12	Lot F
PSMW-2	411.22	410.88	68.84	73.84	342.38	337.38	19.39	--	73.84	391.49	WGK
PSMW-3	408.62	408.32	66.12	71.12	342.50	337.50	17.07	--	71.12	391.25	WGK
PSMW-4	408.51	408.20	99.96	104.96	308.55	303.55	19.18	--	104.96	389.02	WGK
PSMW-6	404.11	406.63	99.80	104.80	304.31	299.31	21.04	--	107.32	385.59	WGK
PSMW-7	406.43	409.48	101.90	106.90	304.53	299.53	22.81	--	109.95	386.67	WGK
PSMW-8	412.00	415.13	65.79	70.79	346.21	341.21	27.85	--	73.92	387.28	WGK
PSMW-9	403.92	403.52	100.40	105.40	303.52	298.52	15.64	--	105.40	387.88	WGK
PSMW-10	409.63	412.18	101.23	106.23	308.40	303.40	28.85	--	108.78	383.33	WGK
PSMW-11	421.57	421.20	116.44	121.44	305.13	300.13	36.88	--	121.44	384.32	WGK
PSMW-12	412.91	415.74	104.80	109.80	308.11	303.11	30.77	--	112.63	384.97	WGK
PSMW-13	405.80	405.53	106.08	111.08	299.72	294.72	18.61	--	111.08	386.92	WGK
PSMW-14D	411.03	413.15	105.51	110.51	305.52	300.52	31.17	--	112.63	381.98	WGK
PSMW-15D	419.54	419.23	117.12	122.12	302.42	297.42	36.58	--	122.12	382.65	WGK
PSMW-16D	425.00	424.69	118.54	123.54	306.46	301.46	41.17	--	123.54	383.52	WGK
PSMW-17 (BWMW-4D)	420.22	423.26	121.25	126.25	298.97	293.97	NG	--	129.5	--	WGK
TRA5-PZBDHU	418.38	421.25	88	94	330.38	324.38	38.17	--	95.35	383.08	WGK

Note:
* Elevation based upon North American Vertical Datum (NAVD) 88 datum.
** Feet below ground surface (ft. bgs).
*** Depth is measured from top of casing (TOC).
NG denotes not gauged.
Coordinates--State Plane 1983, Illinois West, NAD 1983.

See last page of table for notes.

Table 2
Groundwater Analytical Detections

Sample ID	Sample Date	Chemical Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
PS1-0806	8/31/06	VOCs	1,2-Dichlorobenzene	30	ug/L		
PS1-0806	8/31/06	VOCs	1,4-Dichlorobenzene	24	ug/L		
PS1-0806	8/31/06	VOCs	Benzene	4,000	ug/L	D	
PS1-0806	8/31/06	VOCs	Chlorobenzene	15	ug/L		
PS1-0806	8/31/06	VOCs	Ethylbenzene	1,400	ug/L		
PS1-0806	8/31/06	VOCs	Toluene	280	ug/L		
PS1-0806	8/31/06	VOCs	Xylenes, Total	2,000	ug/L		
PS1-0806	8/31/06	SVOCs	2,4-Dimethylphenol	25	ug/L		
PS1-0806	8/31/06	SVOCs	2-Methylnaphthalene	81	ug/L		
PS1-0806	8/31/06	SVOCs	Naphthalene	170	ug/L		
PS1-0806	8/31/06	Metals	Barium	1.1	mg/L		
PS1-0806	8/31/06	Metals	Zinc	0.13	mg/L		
PS1-0806-AD	8/31/06	VOCs	Benzene	3,600	ug/L		
PS1-0806-AD	8/31/06	VOCs	Ethylbenzene	1,500	ug/L		
PS1-0806-AD	8/31/06	VOCs	Toluene	270	ug/L		
PS1-0806-AD	8/31/06	VOCs	Xylenes, Total	2,000	ug/L		
PS1-0806-AD	8/31/06	SVOCs	2,4-Dimethylphenol	24	ug/L		
PS1-0806-AD	8/31/06	SVOCs	2-Methylnaphthalene	93	ug/L		
PS1-0806-AD	8/31/06	SVOCs	Naphthalene	210	ug/L	D	
PS1-0806-AD	8/31/06	PCBs	Monochlorobiphenyl	0.096	ug/L		
PS1-0806-AD	8/31/06	Metals	Barium	1.1	mg/L		
PS2-0906	9/13/06	VOCs	Benzene	8,600	ug/L		
PS2-0906	9/13/06	VOCs	Chlorobenzene	2,600	ug/L		
PS2-0906	9/13/06	SVOCs	2-Toluidine	14	ug/L		
PS2-0906	9/13/06	SVOCs	P-Chloroaniline	330	ug/L	D	J
PS2-0906	9/13/06	SVOCs	Phenol	26	ug/L		
PS2-0906	9/13/06	PCBs	Monochlorobiphenyl	0.1	ug/L		
PS2-0906	9/13/06	Metals	Barium	1.1	mg/L		
PS3-0806	8/31/06	VOCs	1,2-Dichlorobenzene	25,000	ug/L	D	
PS3-0806	8/31/06	VOCs	1,3-Dichlorobenzene	1,900	ug/L		
PS3-0806	8/31/06	VOCs	1,4-Dichlorobenzene	15,000	ug/L		
PS3-0806	8/31/06	VOCs	Benzene	3,200	ug/L		
PS3-0806	8/31/06	VOCs	Chlorobenzene	19,000	ug/L		
PS3-0806	8/31/06	VOCs	Ethylbenzene	110	ug/L		
PS3-0806	8/31/06	VOCs	Xylenes, Total	280	ug/L		
PS3-0806	8/31/06	SVOCs	1,2,4-Trichlorobenzene	1,100	ug/L		
PS3-0806	8/31/06	SVOCs	P-Chloroaniline	410	ug/L		
PS3-0806	8/31/06	PCBs	Dichlorobiphenyl	1.5	ug/L		
PS3-0806	8/31/06	PCBs	Heptachlorobiphenyl	1	ug/L		
PS3-0806	8/31/06	PCBs	Hexachlorobiphenyl	2.3	ug/L		
PS3-0806	8/31/06	PCBs	Monochlorobiphenyl	1.1	ug/L		
PS3-0806	8/31/06	PCBs	Pentachlorobiphenyl	3	ug/L		
PS3-0806	8/31/06	PCBs	Tetrachlorobiphenyl	3.4	ug/L		
PS3-0806	8/31/06	PCBs	Trichlorobiphenyl	2.2	ug/L		J
PS3-0806	8/31/06	Metals	Barium	0.2	mg/L		
PS3-0806	8/31/06	Metals	Vanadium	0.06	mg/L		
PS3-0806-AD	8/31/06	VOCs	1,2-Dichlorobenzene	27,000	ug/L		
PS3-0806-AD	8/31/06	VOCs	1,3-Dichlorobenzene	1,800	ug/L		
PS3-0806-AD	8/31/06	VOCs	1,4-Dichlorobenzene	15,000	ug/L		
PS3-0806-AD	8/31/06	VOCs	Benzene	3,300	ug/L		
PS3-0806-AD	8/31/06	VOCs	Chlorobenzene	19,000	ug/L		
PS3-0806-AD	8/31/06	SVOCs	1,2,4-Trichlorobenzene	1,200	ug/L		
PS3-0806-AD	8/31/06	SVOCs	P-Chloroaniline	440	ug/L		
PS3-0806-AD	8/31/06	PCBs	Dichlorobiphenyl	1.4	ug/L		
PS3-0806-AD	8/31/06	PCBs	Heptachlorobiphenyl	1.1	ug/L		
PS3-0806-AD	8/31/06	PCBs	Hexachlorobiphenyl	1.8	ug/L		
PS3-0806-AD	8/31/06	PCBs	Monochlorobiphenyl	1.1	ug/L		
PS3-0806-AD	8/31/06	PCBs	Pentachlorobiphenyl	2.9	ug/L		
PS3-0806-AD	8/31/06	PCBs	Tetrachlorobiphenyl	3.2	ug/L		
PS3-0806-AD	8/31/06	PCBs	Trichlorobiphenyl	3.2	ug/L		J
PS3-0806-AD	8/31/06	Metals	Barium	0.21	mg/L		
PS3-0806-AD	8/31/06	Metals	Vanadium	0.06	mg/L		
PS3-0806-AD	8/31/06	Metals	Zinc	0.022	mg/L		
PS4-0806	8/30/06	VOCs	1,2-Dichlorobenzene	750	ug/L		
PS4-0806	8/30/06	VOCs	1,4-Dichlorobenzene	8,600	ug/L	D	
PS4-0806	8/30/06	VOCs	Benzene	2,200	ug/L	D	
PS4-0806	8/30/06	VOCs	Chlorobenzene	38,000	ug/L	D	
PS4-0806	8/30/06	SVOCs	2-Chlorophenol	17	ug/L		
PS4-0806	8/30/06	PCBs	Monochlorobiphenyl	0.54	ug/L		
PS4-0806	8/30/06	Metals	Barium	1	mg/L		

See last page of table for notes.

Table 2
Groundwater Analytical Detections

Sample ID	Sample Date	Chemical Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
PS5-0906	9/13/06	VOCs	Benzene	570,000	ug/L		
PS5-0906	9/13/06	SVOCs	2-Methylnaphthalene	11	ug/L		
PS5-0906	9/13/06	SVOCs	Naphthalene	28	ug/L		
PS5-0906	9/13/06	SVOCs	Phenol	73	ug/L		
PS5-0906	9/13/06	Metals	Arsenic	0.016	mg/L		
PS5-0906	9/13/06	Metals	Barium	0.43	mg/L		
PS6-0906	9/6/06	VOCs	1,4-Dichlorobenzene	50	ug/L		
PS6-0906	9/6/06	VOCs	Benzene	6.8	ug/L		
PS6-0906	9/6/06	VOCs	Chlorobenzene	330	ug/L		
PS6-0906	9/6/06	VOCs	Chloroform	2.2	ug/L		
PS6-0906	9/6/06	Metals	Arsenic	0.015	mg/L		
PS6-0906	9/6/06	Metals	Barium	0.051	mg/L		
PS6-0906	9/6/06	Metals	Chromium	0.02	mg/L		
PS6-0906	9/6/06	Metals	Cobalt	0.062	mg/L		
PS6-0906	9/6/06	Metals	Zinc	31	mg/L		
PS7-0906	9/8/06	VOCs	Benzene	500	ug/L		
PS7-0906	9/8/06	VOCs	Chlorobenzene	520	ug/L		
PS7-0906	9/8/06	SVOCs	P-Chloroaniline	310	ug/L	D	
PS7-0906	9/8/06	SVOCs	Phenol	28	ug/L		
PS7-0906	9/8/06	Metals	Barium	1.4	mg/L		
PS8-0906	9/8/06	VOCs	Benzene	11,000	ug/L	D	
PS8-0906	9/8/06	VOCs	Chlorobenzene	2,300	ug/L		
PS8-0906	9/8/06	SVOCs	2-Chlorophenol	15	ug/L		J
PS8-0906	9/8/06	SVOCs	P-Chloroaniline	27	ug/L		
PS8-0906	9/8/06	SVOCs	Phenol	73	ug/L		J
PS8-0906	9/8/06	Metals	Barium	0.52	mg/L		
PS9-0906	9/6/06	VOCs	Chlorobenzene	1.6	ug/L		
PS9-0906	9/6/06	Metals	Barium	0.08	mg/L		
PS10-0906	9/5/06	VOCs	Chlorobenzene	8.6	ug/L		
PS10-0906	9/5/06	Metals	Barium	0.056	mg/L		
PS11-0906	9/6/06	VOCs	Benzene	82	ug/L		
PS11-0906	9/6/06	VOCs	Chlorobenzene	1,400	ug/L		
PS11-0906	9/6/06	SVOCs	P-Chloroaniline	300	ug/L	D	
PS11-0906	9/6/06	Metals	Barium	1.5	mg/L		
PS12-0906	9/7/06	VOCs	1,2-Dichlorobenzene	24	ug/L		
PS12-0906	9/7/06	VOCs	1,3-Dichlorobenzene	26	ug/L		
PS12-0906	9/7/06	VOCs	1,4-Dichlorobenzene	530	ug/L		
PS12-0906	9/7/06	VOCs	Benzene	56	ug/L		
PS12-0906	9/7/06	VOCs	Chlorobenzene	1,200	ug/L		
PS12-0906	9/7/06	VOCs	Vinyl chloride	42	ug/L		
PS12-0906	9/7/06	SVOCs	1,4-Dioxane	16	ug/L		
PS12-0906	9/7/06	SVOCs	2-Chlorophenol	12	ug/L		
PS12-0906	9/7/06	PCBs	Dichlorobiphenyl	2.6	ug/L		J
PS12-0906	9/7/06	PCBs	Monochlorobiphenyl	33	ug/L	D	J
PS12-0906	9/7/06	Pesticides	Heptachlor	0.55	ug/L		
PS12-0906	9/7/06	Metals	Barium	0.078	mg/L		
PS13-0906	9/8/06	VOCs	Chlorobenzene	13	ug/L		
PS13-0906	9/8/06	Metals	Barium	0.12	mg/L		
PS13-0906	9/8/06	Metals	Chromium	0.093	mg/L		
PS13-0906	9/8/06	Metals	Copper	0.22	mg/L		
PS13-0906	9/8/06	Metals	Zinc	0.096	mg/L		
PS14M-0906	9/1/06	VOCs	1,2-Dichlorobenzene	1.7	ug/L		
PS14M-0906	9/1/06	VOCs	1,4-Dichlorobenzene	1.1	ug/L		
PS14M-0906	9/1/06	VOCs	Chlorobenzene	1.5	ug/L		
PS14M-0906	9/1/06	Metals	Barium	0.12	mg/L		
PS14D-0906	9/1/06	VOCs	1,2-Dichlorobenzene	1.7	ug/L		
PS14D-0906	9/1/06	VOCs	1,4-Dichlorobenzene	1	ug/L		
PS14D-0906	9/1/06	VOCs	Chlorobenzene	1,500	ug/L	D	
PS14D-0906	9/1/06	VOCs	cis-1,2-Dichloroethene	1.4	ug/L		
PS14D-0906	9/1/06	Metals	Barium	0.035	mg/L		
PS15M-0906	9/5/06	VOCs	Benzene	3	ug/L		
PS15M-0906	9/5/06	VOCs	Chlorobenzene	1.1	ug/L		
PS15M-0906	9/5/06	Metals	Barium	0.89	mg/L		
PS15D-0906	9/5/06	VOCs	Benzene	6,200	ug/L		
PS15D-0906	9/5/06	VOCs	Chlorobenzene	1,200	ug/L		
PS15D-0906	9/5/06	Metals	Barium	2.2	mg/L		
PS15D-0906	9/5/06	Metals	Lead	0.0057	mg/L		
PS16M-0906	9/5/06	VOCs	Chlorobenzene	18	ug/L		
PS16M-0906	9/5/06	VOCs	cis-1,2-Dichloroethene	1.8	ug/L		
PS16M-0906	9/5/06	Metals	Barium	0.37	mg/L		

See last page of table for notes.

Table 2
Groundwater Analytical Detections

Sample ID	Sample Date	Chemical Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
PS16D-0906	9/5/06	VOCs	1,4-Dichlorobenzene	100	ug/L		
PS16D-0906	9/5/06	VOCs	Benzene	51	ug/L		
PS16D-0906	9/5/06	VOCs	Chlorobenzene	2,100	ug/L		
PS16D-0906	9/5/06	SVOCs	2-Chlorophenol	15	ug/L		
PS16D-0906	9/5/06	SVOCs	bis(2-Chloroethoxy)methane	13	ug/L		
PS16D-0906	9/5/06	Metals	Barium	0.098	mg/L		
PS17-0906	9/7/06	VOCs	1,2-Dichlorobenzene	6,300	ug/L		
PS17-0906	9/7/06	VOCs	1,4-Dichlorobenzene	170	ug/L		
PS17-0906	9/7/06	VOCs	Chlorobenzene	850	ug/L		
PS17-0906	9/7/06	SVOCs	1,2,4-Trichlorobenzene	210	ug/L		
PS17-0906	9/7/06	SVOCs	Aniline	770	ug/L		
PS17-0906	9/7/06	SVOCs	P-Chloroaniline	14,000	ug/L	D	
PS17-0906	9/7/06	Herbicides	2,4,5-T	1.3	ug/L		
PS17-0906	9/7/06	Herbicides	2,4-D	3.4	ug/L		
PS17-0906	9/7/06	Metals	Barium	0.12	mg/L		

Notes:
D = Diluted sample
J = Estimated value
mg/L = milligrams per liter
ug/L = micrograms per liter

See last page of table for notes.

Table 3
Monitored Natural Attenuation Results Summary

Sample ID	Sample Date	Parameter	Result	Units	Lab Qualifiers	URS Qualifiers
PS3-0806	8/31/06	Alkalinity	1,200	mg/L		
PS3-0806	8/31/06	Carbon dioxide	1.1	mg/L		
PS3-0806	8/31/06	Chloride	220	mg/L		
PS3-0806	8/31/06	Dissolved Oxygen*	1.7	mg/L		
PS3-0806	8/31/06	Ethane	63	ug/L		
PS3-0806	8/31/06	Ferrous Iron*	0.86	ppm		
PS3-0806	8/31/06	Methane	20,000	ug/L		
PS3-0806	8/31/06	Oxidation-Reduction Potential*	-21.3	mV		
PS3-0806	8/31/06	Sulfate as SO4	14	mg/L		
PS3-0806	8/31/06	Total Organic Carbon	17	mg/L		
PS3-0806-AD	8/31/06	Alkalinity	1,200	mg/L		
PS3-0806-AD	8/31/06	Carbon dioxide	1.1	mg/L		
PS3-0806-AD	8/31/06	Chloride	210	mg/L		
PS3-0806-AD	8/31/06	Ethane	66	ug/L		
PS3-0806-AD	8/31/06	Methane	21,000	ug/L		
PS3-0806-AD	8/31/06	Sulfate as SO4	13	mg/L		
PS3-0806-AD	8/31/06	Total Organic Carbon	17	mg/L		
PS5-0906	9/13/06	Alkalinity	790	mg/L		
PS5-0906	9/13/06	Carbon dioxide	26	mg/L		
PS5-0906	9/13/06	Chloride	230	mg/L		
PS5-0906	9/13/06	Dissolved Oxygen*	1.02	mg/L		
PS5-0906	9/13/06	Ferrous Iron*	2.36	ppm		
PS5-0906	9/13/06	Methane	5,600	ug/L		
PS5-0906	9/13/06	Oxidation-Reduction Potential*	-161.3	mV		
PS5-0906	9/13/06	Total Organic Carbon	5.2	mg/L		
PS7-0906	9/8/06	Alkalinity	700	mg/L		
PS7-0906	9/8/06	Carbon dioxide	160	mg/L		
PS7-0906	9/8/06	Chloride	390	mg/L		
PS7-0906	9/8/06	Dissolved Oxygen*	0.52	mg/L		
PS7-0906	9/8/06	Ethane	38	ug/L		
PS7-0906	9/8/06	Ferrous Iron*	>5.0	ppm		
PS7-0906	9/8/06	Methane	20,000	ug/L		
PS7-0906	9/8/06	Oxidation-Reduction Potential*	-136.7	mV		
PS7-0906	9/8/06	Total Organic Carbon	7.4	mg/L		
PS8-0906	9/8/06	Alkalinity	570	mg/L		
PS8-0906	9/8/06	Carbon dioxide	72	mg/L		
PS8-0906	9/8/06	Chloride	110	mg/L		
PS8-0906	9/8/06	Dissolved Oxygen*	0.67	mg/L		
PS8-0906	9/8/06	Ethane	2.3	ug/L		
PS8-0906	9/8/06	Ferrous Iron*	2.81	ppm		
PS8-0906	9/8/06	Methane	520	ug/L		
PS8-0906	9/8/06	Oxidation-Reduction Potential*	-131.9	mV		
PS8-0906	9/8/06	Sulfate as SO4	300	mg/L		
PS8-0906	9/8/06	Total Organic Carbon	5.3	mg/L		
PS11-0906	9/6/06	Alkalinity	800	mg/L		
PS11-0906	9/6/06	Carbon dioxide	75	mg/L		
PS11-0906	9/6/06	Chloride	280	mg/L		
PS11-0906	9/6/06	Dissolved Oxygen*	0.58	mg/L		
PS11-0906	9/6/06	Ethane	24	ug/L		
PS11-0906	9/6/06	Ferrous Iron*	>5.0	ppm		
PS11-0906	9/6/06	Methane	23,000	ug/L		
PS11-0906	9/6/06	Nitrogen, Nitrate	0.057	mg/L		
PS11-0906	9/6/06	Oxidation-Reduction Potential*	-137.9	mV		
PS11-0906	9/6/06	Total Organic Carbon	7.2	mg/L		
PS12-0906	9/7/06	Alkalinity	480	mg/L		
PS12-0906	9/7/06	Carbon dioxide	27	mg/L		
PS12-0906	9/7/06	Chloride	63	mg/L		
PS12-0906	9/7/06	Dissolved Oxygen*	0.77	mg/L		
PS12-0906	9/7/06	Ethane	1.3	ug/L		
PS12-0906	9/7/06	Ethylene	2.5	ug/L		
PS12-0906	9/7/06	Ferrous Iron*	>5.0	ppm		
PS12-0906	9/7/06	Methane	270	ug/L		
PS12-0906	9/7/06	Oxidation-Reduction Potential*	-133.2	mV		
PS12-0906	9/7/06	Sulfate as SO4	260	mg/L		
PS12-0906	9/7/06	Total Organic Carbon	3.9	mg/L		
PS15M-0906	9/5/06	Alkalinity	550	mg/L		
PS15M-0906	9/5/06	Carbon dioxide	37	mg/L		
PS15M-0906	9/5/06	Chloride	80	mg/L		
PS15M-0906	9/5/06	Dissolved Oxygen*	0.32	mg/L		
PS15M-0906	9/5/06	Ferrous Iron*	>5.0	ppm		
PS15M-0906	9/5/06	Methane	160	ug/L		
PS15M-0906	9/5/06	Nitrogen, Nitrate	0.07	mg/L		
PS15M-0906	9/5/06	Oxidation-Reduction Potential*	-157	mV		
PS15M-0906	9/5/06	Sulfate as SO4	140	mg/L		
PS15M-0906	9/5/06	Total Organic Carbon	3	mg/L		

See last page of table for notes.

Table 3
Monitored Natural Attenuation Results Summary

Sample ID	Sample Date	Parameter	Result	Units	Lab Qualifiers	URS Qualifiers
PS15D-0906	9/5/06	Alkalinity	780	mg/L		
PS15D-0906	9/5/06	Carbon dioxide	74	mg/L		
PS15D-0906	9/5/06	Chloride	360	mg/L		J
PS15D-0906	9/5/06	Dissolved Oxygen*	0.91	mg/L		
PS15D-0906	9/5/06	Ethane	31	ug/L		
PS15D-0906	9/5/06	Ferrous Iron*	>5.0	ppm		
PS15D-0906	9/5/06	Methane	15,000	ug/L		
PS15D-0906	9/5/06	Oxidation-Reduction Potential*	-122.5	mV		
PS15D-0906	9/5/06	Total Organic Carbon	7.1	mg/L		
PS16M-0906	9/5/06	Alkalinity	630	mg/L		
PS16M-0906	9/5/06	Carbon dioxide	81	mg/L		
PS16M-0906	9/5/06	Chloride	120	mg/L		
PS16M-0906	9/5/06	Dissolved Oxygen*	0.7	mg/L		
PS16M-0906	9/5/06	Ethane	0.68	ug/L		
PS16M-0906	9/5/06	Ferrous Iron*	>5.0	ppm		
PS16M-0906	9/5/06	Methane	29	ug/L		
PS16M-0906	9/5/06	Oxidation-Reduction Potential*	-146.8	mV		
PS16M-0906	9/5/06	Sulfate as SO4	61	mg/L		
PS16M-0906	9/5/06	Total Organic Carbon	3	mg/L		
PS16D-0906	9/5/06	Alkalinity	590	mg/L		
PS16D-0906	9/5/06	Carbon dioxide	58	mg/L		
PS16D-0906	9/5/06	Chloride	130	mg/L		
PS16D-0906	9/5/06	Dissolved Oxygen**	0.82	mg/L		
PS16D-0906	9/5/06	Ethane	7.6	ug/L		
PS16D-0906	9/5/06	Ferrous Iron**	>5.0	ppm		
PS16D-0906	9/5/06	Methane	1,900	ug/L		
PS16D-0906	9/5/06	Oxidation-Reduction Potential**	-121.6	mV		
PS16D-0906	9/5/06	Sulfate as SO4	200	mg/L		
PS16D-0906	9/5/06	Total Organic Carbon	5.8	mg/L		

Notes:
* = Indicates parameter was analyzed in the field. Ferrous Iron readings were taken using a LaMotte Colorimeter after the groundwater passed through a 0.2 μ filter.
> = Indicates the sample was over range for the selected analyte.
J = Estimated value
mg/L = milligrams per liter
ug/L = micrograms per liter

Appendix A

Groundwater Purging and Sampling Forms

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

46.10
20.26
25.84

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen J. Mumper
DATE: 8/31/06
WEATHER: 70's cloudy
MONITORING WELL ID: PSMW - 1 PSI - 0806

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 46.10 ft
Depth to Water (btoc): 20.26 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 41.10 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 25.84 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 43.50 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
					.2		3%		10% or .2	20
~ 1.5 gal	1439	20.50	Lt BRN	YES	6.58	17.64	2.728	Cloudy	1.79	-124.3
~ 2.25 gal	1444	20.50	"	"	6.58	17.76	2.744	less cloudy	1.48	-126.0
~ 3.00 gal	1449	20.50	"	"	6.59	18.01	2.751	"	1.08	-126.2
~ 3.00 gal	1454	20.50	"	"	6.59	17.92	2.758	"	1.02	-125.0
~ 4.75 gal	1459	20.50	"	"	6.59	17.89	2.773	"	1.05	-123.3

Start Time: 1430
Stop Time: 1500
Elapsed Time: 30
Average Purge Rate (mL/min): 400 ml/min / 300 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 8/31/06

SAMPLING DATA

Sample Date: 8/31/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1525
Sample Flow Rate: 200 ml/min Slowed down
Analysis: VOCs SVOCs PCBs PEST HERB Metals
Date Calibrated:

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK ~~PCB~~ ~~Migration Study~~ Plume Stability
PROJECT NUMBER: 21561640
FIELD PERSONNEL: S Moore/M. Miller
DATE: 9-13-06
WEATHER: 70s, cloudy
MONITORING WELL ID: PSMW-2

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 73.35 ft
Depth to Water (btoc): 19.78 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 68.84 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 53.57 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 51.07 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: 0 ppm
Wellbore PID/FID Reading: 0 ppm

PURGE DATA

Pump Type: SS monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
					.2		3%		10% or .2	20
.5 gal.	1308	19.81	cloudy	yes ~~No~~ ?	6.74	18.20	2.470	370	3.52	-72.2
1.5 gal	1312	19.81			6.71	18.18	2.710	130	2.93	-117.2
2.0 gal	1317	19.81			6.70	18.17	2.812	80	2.77	-129.9
2.5 gal	1322	19.81			6.70	18.15	2.824	75	2.16	-134.9
3.0 gal	1327	19.81			6.71	17.88	2.829	39	1.98	-143.4
3.5 gal	1332	19.81			6.71	18.62	2.853	23	1.94	-144.1
4.0 gal	1337	19.81			6.72	19.21	2.877	19	1.87	-148.2

Start Time: 1302
Stop Time: 1340
Elapsed Time: 38
Average Purge Rate (mL/min): 400
Water Quality Meter ID: YSI 556
Date Calibrated: 9-13-06

SAMPLING DATA

Sample Date: 9-13-06
Sample Method: Stainless Steel Monsoon
Sample Time: 1345
Sample Flow Rate: 400
~~TOC, Alk/CO2, Sulfate, Chloride, Diss Gases~~
Analysis: VOCs, SVOC, Pest, Herb, PCB, Fat PCB, Nitrate, Metal
Date Calibrated: 9-13-06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study PROJECT NUMBER: 21561618 FIELD PERSONNEL: A. Christensen J. Kypta-Mumper
DATE: 8/31/06 WEATHER: 70's Cloudy
MONITORING WELL ID: PSMW-3

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 70.89 ft
Depth to Water (btoc): 17.24 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 65.89 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 53.65 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 51.00 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ____ ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS MONSOON

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH (.2)	Temp (°C)	Cond. (ms/cm) (3%)	Turbidity (NTUs)	DO (mg/l) (10% or 0.2)	ORP (mv) (20)
~0.5 gal	0917	17.22	RED-BRN	YES	9.31	19.11	2.301	over range	2.39	110.2
~1.0 gal	0922	17.22	DK. BRN	"	9.33	19.11	2.367	"	2.63	92.1
~1.25 gal	0927	17.22	"	"	9.36	18.64	2.425	"	2.42	78.1
~2.75 gal	0932	17.22	"	"	9.38	18.58	2.462	"	2.34	70.9
~4 gal	0937	17.22	"	"	9.40	18.70	2.468	"	2.21	57.4
~5 gal	0942	17.22	"	"	9.40	18.77	2.493	"	2.14	52.8
~5.5 gal	0947	17.22	"	"	9.40	18.74	2.492	"	2.10	49.4
~6.25 gal	0952	17.22	"	"	9.40	18.77	2.502	"	1.97	34.6
~7.5 gal	0957	17.22	"	"	9.41	18.78	2.508	"	1.96	34.2
~8.0 gal	1002	17.22	"	"	9.41	18.77	2.517	"	1.96	32.5
~8.5 gal	1007	17.22	"	"	9.41	18.71	2.510	"	1.90	27.2
~9.0 gal	1012	17.22	"	"	9.42	18.49	2.518	"	1.87	22.7
~9.5 gal	1017	17.22	"	"	9.42	18.68	2.520	"	1.85	19.3
~10.0 gal	1022	17.22	"	"	9.42	18.72	2.520	"	1.82	14.0
~11.0 gal	1027	17.22	"	"	9.42	18.75	2.528	"	1.78	4.1
~12.0 gal	1032	17.22	"	"	9.42	18.85	2.536	"	1.78	2.1

Start Time: 0912
Stop Time: 1052
Elapsed Time: 1 hour 35 minute
Average Purge Rate (mL/min): 400 ml/min / 425 ml/min 500 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 8/31/06

SAMPLING DATA

Sample Date: 8/31/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1110
Sample Flow Rate: 425 ml/min
Analysis: MNA 3 VOCs, 2 SVOCs, 1 PEST, 2 HERB, 1 PCBs, 1 Metals
Date Calibrated: 8/31/06

COMMENTS:

bubbles present in VOAs due to reaction w/ HCl.
FEII 0.816 (0.2u)
0.88 DUP (0.2u) PS3-0806-AD ALSO COLLECTED.

PURGE DATA CONTINUED:

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
12.5 gal	1037	17.22	dk. brn	yes	9.42	18.84	2.530	over range	1.76	-5.5
13.0 gal	1042	17.22	"	"	9.42	18.89	2.534	"	1.75	70.4
13.5 gal	1047	17.22	"	"	9.42	18.88	2.530	"	1.70	-15.5
14.0 gal	1052	17.22	"	"	9.42	18.90	2.530	"	1.70	-21.3

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen J. Mumper
DATE: 8/30/06
WEATHER: 70's cloudy
MONITORING WELL ID: PSMW-4 (PS4-0806)

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 104.52 ft
Depth to Water (btoc): 19.29 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 99.52 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 85.23 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 102.00 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: NA ppm
Wellbore PID/FID Reading: NA ppm

9/14/82
19.29
85.23

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH ±0.2	Temp (°C)	Cond. (ms/cm) ±3%	Turbidity (NTUs)	DO (mg/l) ±10% ±0.2	ORP (mv) ±20mV
~2 gal	1405	19.30	lt. gry	yes	7.09	18.42	1.213	10.19	1.88	-130.5
~2.5 gal	1410	19.30	"	"	7.09	18.40	1.215	9.58	1.75	-132.8
~3 gal	1415	19.30	"	"	7.10	18.54	1.218	4.73	1.52	-136.6
~4 gal	1420	19.30	"	"	7.10	18.49	1.220	3.85	1.37	-137.7
~5 gal	1425	19.30	"	"	7.10	18.49	1.222	8.84	1.35	-139.6

Start Time: 1355
Stop Time: 1425
Elapsed Time: 30 min
Average Purge Rate (mL/min): 480 ml/min / 350 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 8/30/06

SAMPLING DATA

Sample Date: 8/30/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1435
Sample Flow Rate: 350 ml/min
Analysis: 3 VOCs, 2 SVOCs, 1 PCBs, 2 Herb, 1 Pest, 1 Metals
Date Calibrated: 8/30/06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK ~~PCB~~ Plume Stability ~~Migration Study~~ PROJECT NUMBER: 21561640 FIELD PERSONNEL: S Moore / M Miller.
DATE: 9/13/06 WEATHER: 60's cloudy, windy
MONITORING WELL ID: PS MW-5

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 27.33 ft
Depth to Water (btoc): 23.26 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 19.68 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 4.07 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = ~~25.29~~ 9-13-06 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are <4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = 25.29 ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: 2.0 ppm
Wellbore PID/FID Reading: 134 ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH (.2)	Temp (°C)	Cond. (ms/cm) (3%)	Turbidity (NTUs)	DO (mg/l) (10% or .2)	ORP (mv) (20)
1 gal.	0954	23.57	brn	NO	7.20	17.43	2.014	110	2.32	-91.4
1.5 gal.	0959	23.57	cloudy	NO	7.26	17.46	2.024	20	2.00	-122.9
2.0 gal	1004	23.57	clear-cldy	NO	7.29	17.50	2.032	18	1.77	-128.1
2.5 gal	1009	23.58	clear	NO	7.32	17.49	2.035	16	1.55	-133.7
3.0 gal	1014	23.58	clear	NO	7.34	17.48	2.043	12	1.31	-141.9
3.5 gal	1019	23.58	clear	NO	7.46	17.47	2.047	12	1.17	-155.2
4.0 gal	1023	23.59	clear	NO	7.36	17.47	2.048	12	1.11	-158.8
4.5 gal	1028	23.59	clear	NO	7.36	17.48	2.052	11	1.02	-161.3

Start Time: 0947
Stop Time: ~~0930~~ 1030 9-13-06
Elapsed Time: 34 minutes
Average Purge Rate (mL/min): 350
Water Quality Meter ID: YSI 556
Date Calibrated: 9-13-06

SAMPLING DATA

Sample Date: 9-13-06
Sample Method: Stainless Steel Monsoon
Sample Time: 1035
Sample Flow Rate: 350
Analysis: ~~Alk/CO2, Sulfate, Chloride, TOC, Diss Gases~~ Alk/CO2, Sulfate, Chloride, TOC, Diss Gases VOCs, SVOCs, Pest, Herb, PCB, Nitrate/Nitrite, Metals
Date Calibrated: 9-13-06

COMMENTS:
Fe^{2} - 2.36 ppm (0.2 u)

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study PROJECT NUMBER: 21561618 FIELD PERSONNEL: A. Christensen
DATE: 9/6/06 WEATHER: 70's Sunny
MONITORING WELL ID: PSMW-6

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 109.91 ft
Depth to Water (btoc): 20.92 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 104.91 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 88.99 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 107.25 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ____ ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

.2

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0.5 gal	1015	20.93	BRN	YES	6.40	18.25	8.228	overrange	1.11	-23.3
1.5 gal	1020	"	Lt. GRAY	"	6.40	18.50	8.351	"	1.0	-33.1
2.5 gal	1025	"	"	"	6.43	18.08	8.598	"	0.76	-49.0
3.5 gal	1030	"	"	"	6.44	18.62	8.609	600	0.65	-54.0
4.5 gal	1035	"	"	"	6.45	19.14	8.603	350	0.58	-58.3
5.5 gal	1040	"	"	"	6.46	18.59	8.663	220	0.58	-60.5
7.5 gal	1050	"	"	"	6.46	18.62	8.585	28	0.46	-63.5
8.5 gal	~~1055~~ 1100	"	"	"	6.47	18.46	8.587	18	0.46	-64.7
10.5 gal	1105	"	"	"	6.47	18.68	8.585	13	0.41	-67.3
11.5 gal	1110	"	"	"	6.48	18.57	8.604	13	0.40	-67.5
12.5 gal	1115	"	"	"	6.48	18.55	8.589	9.4	0.39	-68.3

Start Time: 1010
Stop Time: 1115
Elapsed Time: 1hr 5min
Average Purge Rate (mL/min): 400 ml/min / 500 ml/min
300 ml/min / 500 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/6/06

SAMPLING DATA

Sample Date: 9/6/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1120
Sample Flow Rate: 200 ml/min 500 ml/min
Analysis: VOCs SVOCs PCBs Pest Herb metals
Date Calibrated: 9/6/06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen
DATE: 9/8/06
WEATHER: 80's Sunny
MONITORING WELL ID: DSMW-7

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 113.10 ft
Depth to Water (btoc): 22.95 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 90.15 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 110.50 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: ppm
Wellbore PID/FID Reading: ppm

PURGE DATA

Pump Type: SS MONSOON

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
					.2		3%	10% .2		20
.25 gal	1044	22.95	Lt. BRN	Yes	6.91	18.15	2.347	380	1.82	-85.4
1.25 gal	1049	"	"	"	6.89	19.12	2.437	150	1.01	-117.4
2.25 gal	1054	"	"	"	6.90	18.20	2.475	130	0.93	-120.6
3.25 gal	1059	"	"	"	6.92	18.62	2.475	35	0.72	-128.8
4.25 gal	1104	"	"	"	6.94	17.84	2.490	13	0.67	-131.7
5.25 gal	1109	"	"	"	6.95	18.07	2.494	8.6	0.59	-134.1
6.25 gal	1114	"	"	"	6.96	18.71	2.500	6.3	0.56	-135.8
7.25 gal	1119	"	"	"	6.96	18.09	2.499	8.9	0.52	-136.7

Start Time: 1040
Stop Time: 1119
Elapsed Time: 39 MIN
Average Purge Rate (mL/min): 450 ml/min / 500 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/8/06

SAMPLING DATA

Sample Date: 9/8/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1130
Sample Flow Rate: 200 ml/min 500 ml/min
Analysis: Sulfate Nitrate TOC Chloride Alk/CO2 Diesel VOCs SVOCs Pest Herb PCBs Metals
Date Calibrated: 9/8/06

COMMENTS:
overrange FET

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen
DATE: 9/8/06
WEATHER: 70s Sunny
MONITORING WELL ID: PSMW-8

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 77.10 ft
Depth to Water (btoc): 28.00 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 72.10 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 49.10 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 74.50 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = – ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = – ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: – ppm
Wellbore PID/FID Reading: – ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH (.2)	Temp (°C)	Cond. (ms/cm) (3%)	Turbidity (NTUs)	DO (mg/l) (10% .2)	ORP (mv) (20)
.25gal	0916	28.02	Lt. Gray	No	7.22	17.75	1.793	85	1.56	-81.2
1.gal	0921	28.03	"	"	7.10	17.59	2.012	31	1.14	-120.4
2gal	0926	"	"	"	7.11	17.81	2.048	18	0.98	-125.9
3gal	0931	"	"	"	7.11	17.56	2.074	9.2	0.80	-130.2
4gal	0936	"	"	"	7.12	17.74	2.070	9.7	0.75	-131.1
5gal	0941	"	"	"	7.12	17.75	2.061		0.67	-131.9

Start Time: 0915
Stop Time: 0941
Elapsed Time: 26 min
Average Purge Rate (mL/min): 500ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/8/06

SAMPLING DATA

Sample Date: 9/8/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1000
Sample Flow Rate: 200 ml/min 500ml/min
Analysis: Diss. gases A/K/CO_2 Sulfate Chloride Nitrate TOC VOCs SVOCs Pest Herb PCBs Metals
Date Calibrated: 9/8/06

COMMENTS:

Small bubbles in VOAs Fe II 2.81ppm (0.2 w)

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A Christensen
DATE: 9/6/06
WEATHER: 80's Sunny
MONITORING WELL ID: PSMW-9

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 105.21 ft
Depth to Water (btoc): 15.71 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 100.21 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 89.50 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 102.5 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
.25gal	1337	15.75	Light tan	NO	7.24	16.08	0.920	23	3.50	35.8
1.25gal	1342	"	"	"	7.04	16.21	0.932	14	1.95	-76.9
2.25gal	1347	"	"	"	7.02	16.95	0.936	4.8	1.46	-107.7
3.25gal	1352	"	"	"	7.07	16.46	0.944	3.9	1.25	-114.3
4.25gal	1357	"	"	"	7.12	16.46	0.942	3.0	0.95	-129.1
5.25gal	1402	"	"	"	7.19	16.52	0.944	4.6	0.84	-131.9
6.25gal	1407	"	"	"	7.16	15.91	0.943	2.8	0.79	-133.5

Start Time: 1335
Stop Time: 1407
Elapsed Time: 32 min
Average Purge Rate (mL/min): 450 ml/min
400 ml/min / 425 ml/min
500 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/6/06

SAMPLING DATA

Sample Date: 9/6/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1415
Sample Flow Rate: 200 ml/min 500 ml/min
Analysis: VOCs SVOCs PCBs Pest Herb Metals
Date Calibrated: 9/6/06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen
DATE: 9/5/06
WEATHER: 70s Sunny
MONITORING WELL ID: PSMN - 10

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 111.40 ft
Depth to Water (btoc): 28.43 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 106.40 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 82.97 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is (4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 108.90 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are (4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
					.2		3%		10% or .2	20
0.75gal	0925	28.48	Lt. Brn	No	6.27	16.31	4.313	120	1.53	-50.9
1.75gal	0930	28.50	"	"	6.35	16.55	4.421	19	1.09	-74.3
3gal	0940	28.47	"	"	6.39	17.38	4.461	4.7	0.89	-83.4
4gal	0945	28.48	"	"	6.40	16.55	4.514	2.4	0.82	-84.9
5gal	0950	"	"	"	6.41	16.66	4.509	2.0	0.71	-88.5

Start Time: 0920
Stop Time: 0950
Elapsed Time: 30 MIN
Average Purge Rate (mL/min): 500ml/min / 350ml/min 450ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/5/06

SAMPLING DATA

Sample Date: 9/5/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1000
Sample Flow Rate: 200ml/min 450ml/min
Analysis: VOCs SVOCs PCB Pest Herb Metals
Date Calibrated: 9/5/06

COMMENTS:

PS10-0906-EB (0845)

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A Christensen
DATE: 9/6/06
WEATHER: 70's Sunny
MONITORING WELL ID: PSMW-11

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 121.08 ft
Depth to Water (btoc): 36.77 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 116.08 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 84.31 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 118.5 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

.2 3%

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
.5 gal	0850	36.81	Lt. tan	Slight	7.02	18.02	2.367	9.1	1.64	-103.7
1.5 gal	0855	"	"	"	7.04	18.11	2.362	4.4	0.89	-120.6
2.5 gal	0900	"	"	"	7.06	18.29	2.361	5.4	0.77	-128.5
3.5 gal	0905	"	"	"	7.06	18.34	2.362	6.6	0.67	-132.5
4.5 gal	0910	"	"	"	7.02	18.38	2.373	4.7	0.58	-137.9

Start Time: 0842
Stop Time: 0910
Elapsed Time: 28 min ~~0848~~
Average Purge Rate (mL/min): 500 ml/min 400 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/6/06

SAMPLING DATA

Sample Date: 9/6/06
Sample Method: Stainless Steel Monsoon
Sample Time: 0915
Sample Flow Rate: 200 ml/min 500 ml/min
Analysis: Nitrate Diss gases Alk/CO2 Sulfate Chloride TOC VOCs SVOCs PCBs Pest Herb Metals
Date Calibrated: 9/6/06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen, S. Moore
DATE: 9/7/06
WEATHER: 70s Sunny
MONITORING WELL ID: PSMW-12

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 114.89 ft
Depth to Water (btoc): 30.78 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 109.89
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 84.11 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 112.25 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS monsoon

Purge Volume ~~(mL)~~	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
					.2		3%		10% or .2	20
.25 gal	0752	30.79	Lt. tan	No	6.65	17.08	1.101	70	3.17	172.6
1 gal	0757	"	"	"	6.73	16.84	1.466	65	2.03	-40.3
2 gal	0802	"	"	"	6.85	16.83	1.555	17	1.53	-97.9
3 gal	0807	"	"	"	6.91	17.06	1.565	12	1.21	-113.4
4 gal	0812	"	"	"	6.94	17.06	1.572	9.8	1.08	-120.1
4.75 gal	0817	"	"	"	6.97	17.50	1.574	7.9	0.90	-127.6
5.25 gal	0822	"	"	"	6.98	17.46	1.579	6.6	0.85	-129.3
6.25 gal	0827	"	"	"	6.99	17.47	1.578	5.5	0.77	-133.2

Start Time: 0750
Stop Time: 0827
Elapsed Time: 37 MIN
Average Purge Rate (mL/min): 450 ml/MIN / 500 ml/min
450 ml/MIN / 500 ml/MIN
Water Quality Meter ID: YSI 556
Date Calibrated: 9/7/06

SAMPLING DATA

Sample Date: 9/7/06
Sample Method: Stainless Steel Monsoon
Sample Time: 0845
Sample Flow Rate: 200 ml/min 500 ml/min
Analysis: VOCs SVOCs PCBs Pest Herb Toc Metals
Date Calibrated: 9/7/06

COMMENTS:

Fe II overrange (0.24)

110.30

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen, S. Moore
DATE: 9/7/06
WEATHER: 80's Sunny
MONITORING WELL ID: PSMW-13

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 110.83 ft
Depth to Water (btoc): 17.90 ft
Depth to LNAPL/DNAPL (btoc): N/A ft
Depth to Top of Screen (btoc): 105.83 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 108.25 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: ppm

PURGE DATA

Pump Type: SS monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
					.2		3%		10% or .2	20
~1 gal	1019	20.47	Lt tan	yes	11.33	19.87	1.051	20	3.00	-95.0
~1.25 gal	1024	20.47	"	"	11.46	20.02	1.168	20	2.98	-114.5
~1.5 gal	1029	20.45	"	"	11.58	20.85	1.315	15	2.82	-140.1
~1.75 gal	1034	"	Cloudy	"	11.77	20.51	1.581	15	3.05	-154.2
	1039	"	"	"	12.07	19.10	1.918	40		
		Stop purging due to exceeded Drawdown								
@ 10 gal	1205	23.65	cloudy	yes	8.11	19.54	0.998	28	0.98	-172.9
@ 15 gal		23.25	clear	yes	7.86	16.69	0.993	15	1.04	-158.1
@ 20 gal		23.20	clear	yes	7.62	16.46	0.981	13	5.28	-157.2

Start Time: 0950 / 1158
Stop Time:
Elapsed Time:
Average Purge Rate (mL/min): 100 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/7/06

SAMPLING DATA

Sample Date: 9/7/06
Sample Method: Stainless Steel Monsoon
Sample Time:
Sample Flow Rate:
Analysis:
Date Calibrated: 9/7/06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen
DATE: 9/8/06
WEATHER: 80s Sunny
MONITORING WELL ID: PSMW-13

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 110.30 ft
Depth to Water (btoc): 20.47 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 105.30 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 89.83 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 107.50 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
.50 gal	1350	20.62	white	YES	9.26	18.42	0.739	40	2.72	9.17
1.50 gal	1355	20.54	less white	"	8.35	18.93	0.744	100	1.54	-126.4
2.50 gal	1400	20.54	"	"	8.02	18.24	0.765	80	1.20	-155.0
3.50 gal	1405	20.54	"	"	7.71	17.71	0.825	35	1.04	-160.2
4.50 gal	1410	20.52	"	"	7.42	18.82	0.865	29	0.85	-153.0
5.50 gal	1415	"	"	"	7.29	19.45	0.901	26	0.77	-148.7
6.50 gal	1420	"	"	"	7.24	17.94	0.916	18	0.71	-148.7
7.50 gal	1425	"	"	"	7.21	18.09	0.917		0.67	-148.5
				* lost flow due to pump being clogged						
8.5 gal	1452	20.75	"	"	7.67	18.61	0.912	65	0.49	-141.5
9.5 gal	1454	"	"	"	7.65	18.66	0.929	90	0.64	-146.5
10.5 gal	1498	"	"	"	7.67	18.84	0.929	75	0.56	-152.7

Start Time: 1345
Stop Time: 1458
Elapsed Time: 1hr 13min
Average Purge Rate (mL/min): 400ml/min / 500 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/8/06

SAMPLING DATA

Sample Date: 9/8/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1500
Sample Flow Rate: 500ml/min
Analysis: VOCs SVOCs Metals Pest herb PCBs
Date Calibrated: 9/8/06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen J. Mumper
DATE: 9/1/06
WEATHER: 70's cloudy
MONITORING WELL ID: PSMW-14M

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 49.65 ft
Depth to Water (btoc): 30.65 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 44.65 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 19.00 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 47.00 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
~1 gal	1039	30.68	lt tan	slight	6.60	16.34	2.005	7.3	~~0.46~~ 0.35	-93.5
~2 gal	1044	30.68	"	"	6.60	16.29	2.011	3.0	0.35	-98.4
~3 gal	1049	30.67	"	slight	6.59	16.41	2.015	2.0	0.31	-99.9
~4 gal	1054	30.67	"	"	6.60	16.41	2.012	1.6	0.30	-100.7

.2 3%

Start Time: 1030
Stop Time: 1054
Elapsed Time: 24 min
Average Purge Rate (mL/min): 500 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/1/06

SAMPLING DATA

Sample Date: 9-1-06
Sample Method: Stainless Steel Monsoon
Sample Time: 1100
Sample Flow Rate: ~~200 ml/min~~ 500 ml/min
Analysis: VOCs SVOCs
Date Calibrated: 9/1/06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen J. Mumper
DATE: 9/1/06
WEATHER: 70's cloudy
MONITORING WELL ID: PSMW-14D

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 114.77 ft
Depth to Water (btoc): 30.90 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): 109.77 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 83.87 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = ~ 112 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS. Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
					±.2		3%		10% or 0.2	20
~1gal	0902	30.90	Lt. Tan	slight	6.18	15.75	4.249	29	1.73	-50.1
~2gal	0907	30.90	"	"	6.25	15.74	4.275	6.1	1.33	-67.7
~3gal	0912	30.90	"	"	6.31	15.73	4.282	2.8	0.94	-79.4
~4gal	0917	30.90	"	"	6.32	15.76	4.282	1.7	0.81	-82.5
~5gal	0930	30.90	"	"	6.33	15.80	4.283	1.4	0.70	-84.8
~6gal	0935	30.90	"	"	6.34	15.81	4.286	1.9	0.58	-86.9
~~7gal~~	0940	30.90	"	"	6.35	15.85	4.286	1.1	0.57	-87.4
~7gal										

Start Time: 0857
Stop Time: 0940
Elapsed Time: 43
Average Purge Rate (mL/min): 500ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/1/06

SAMPLING DATA

Sample Date: 9/1/06
Sample Method: Stainless Steel Monsoon
Sample Time: 0945
Sample Flow Rate: 200ml/min/ 500ml/min
Analysis: VOCs SVOCs PCBs PEST HERBS METALS
Date Calibrated: 9/1/06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen
DATE: 9/5/06
WEATHER: 70's Sunny
MONITORING WELL ID: PSMW - 15M

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 55.33 ft
Depth to Water (btoc): 37.64 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): • ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 17.69 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is < 4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 52.8 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = ____ ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
1 gal	1715	37.60	Lt Gray	ND	6.89	18.80	1.445	330	0.19	-136.7
2 gal	1720	37.61	"	"	6.90	18.66	1.455	55	0.32	-143.2
3 gal	1725	37.61	"	"	6.92	18.60	1.463	20	0.34	-149.3
4 gal	1730	37.61	"	"	6.93	18.66	1.466	10	0.32	-153.7
5 gal	1735	"	"	"	6.94	18.76	1.468	8.9	0.33	-155.3
6 gal	1740	"	"	"	6.93	18.77	1.469	6.5	0.32	-157.8

Start Time: 1710
Stop Time: 1740
Elapsed Time: 30 min
Average Purge Rate (mL/min): 450 ml/min
400 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/5/06

SAMPLING DATA

Sample Date: 9/5/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1740
Sample Flow Rate: 200 ml/min / 400 ml/min
Analysis: Diss gases Alk/CO_2 Chloride TOC Sulfate Nitrate VOCs SVOCs PCBs Pest Herb Metals
Date Calibrated: 9/5/06

COMMENTS:
Fe II overrange (0.2 w)

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen
DATE: 9/5/06
WEATHER: 70S Sunny
MONITORING WELL ID: PSMW-15D

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 121.87 ft
Depth to Water (btoc): 37.32 ft
Depth to LNAPL/DNAPL (btoc): — ft
Depth to Top of Screen (btoc): ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 84.55 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 119.25 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
					.2		3%		10% or .2	20
0.50gal	1518	37.35	Lt. tan	No	6.76	18.65	2.253	35	1.80	-56.3
1.5gal	1523	"	"	"	6.83	18.52	2.482	7.8	1.07	-112.0
2.5gal	1528	"	"	"	6.84	18.66	2.493	5.3	0.97	-116.7
3.5gal	1533	"	"	"	6.86	18.52	2.507	2.6	0.91	-122.5

Start Time: 1513
Stop Time: 1533
Elapsed Time: 20 MIN
Average Purge Rate (mL/min): 500 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/5/06

SAMPLING DATA

Sample Date: 9/5/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1545
Sample Flow Rate: 200ml/min 500ml/min
Analysis: Alk CO_2 Nitrate Toc Sulfate Chloride VOCs SVOCs PCBs Pest Herb Metals Diss gas
Date Calibrated: 9/5/06

COMMENTS:
Fe^{2} - overrange (O2 ll)

PS15D-0906-MS (1550)
PS15D-0906-MSD (1550)

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LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen
DATE: 9/5/06
WEATHER: 70's Sunny
MONITORING WELL ID: PSMW-16M

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 63.21 ft
Depth to Water (btoc): 42.71 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 58.21 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 20.50 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 60.25 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH (.2)	Temp (°C)	Cond. (ms/cm) (3%)	Turbidity (NTUs)	DO (mg/l) (10% or .2)	ORP (mv) (20)
1 gal	1130	42.71	Lt. tan	No	6.80	17.75	1.607	50	1.13	-126.8
2 gal	1135	42.73	"	"	6.86	17.99	1.612	12	0.87	-139.2
3 gal	1140	42.72	"	"	6.87	17.94	1.611	7.1	0.83	-141.0
4 gal	1145	"	"	"	6.89	17.78	1.611	5.5	0.71	-144.1
5 gal	1150	"	"	"	6.89	17.71	1.610	4.6	0.70	-146.8

Start Time: 1120
Stop Time: 1150
Elapsed Time: 30 min
Average Purge Rate (mL/min): 500 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/5/06

SAMPLING DATA

Sample Date: 9/5/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1215
Sample Flow Rate: 200 ml/min 500 ml/min
Analysis: TOC Alk/CO_2/~~[illegible]~~ gases/Nitrate/Sulfate/Chloride VOCs SVOCs PCBs Pest Herb Metals
Date Calibrated: 9/5/06

COMMENTS: Coal Dust in Air From SLAY Operations PSI5M-0906-EB (1100) FeII 0.0 (0.2 w)
(PSI6M-0906) FeII over range (0.2 w)

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A. Christensen
DATE: 9/5/06
WEATHER: 70s Sunny
MONITORING WELL ID: PSMW-16D

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 123.27 ft
Depth to Water (btoc): 41.25 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): 118.27 ft
Screen Length: 5 ft

Water Column Height (do not include LNAPL or DNAPL): 82.02 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = ~120 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
1 gal	1245	41.28	Lt. tan	No	6.98	17.36	1.792	14	2.35	-98.2
2 gal	1250	41.28	"	"	6.95	17.13	1.781	5.4	1.19	-110.2
3 gal	1255	41.28	"	"	6.95	17.05	1.780	2.4	0.94	-115.1
4 gal	1300	41.28	"	"	7.01	17.53	1.777	0.9	0.75	-120.3
5 gal	1305	41.28	"	"	6.96	17.56	1.781	0.85	0.82	-121.6

Start Time: 12~~[illegible]~~40
Stop Time: 1305
Elapsed Time: 25 min
Average Purge Rate (mL/min): 400 ml/min 450 ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/5/06

SAMPLING DATA

Sample Date: 9/5/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1315
Sample Flow Rate: 200 ml/min 450 ml/min
Analysis: Dissgases TOC Alk/CO2 Nitrate Sulfate Chlor VOCs SVOCs Pest Herb PCBs Metals
Date Calibrated: 9/5/06

COMMENTS:

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Plume Stability Study
PROJECT NUMBER: 21561618
FIELD PERSONNEL: A Christensen, S. Moore
DATE: 9/7/06
WEATHER: 80's Sunny
MONITORING WELL ID: DSMW-17 (BWMW-4D)

INITIAL DATA

Well Diameter: 2 in
Total Well Depth (btoc): 134.10 ft
Depth to Water (btoc): 42.61 ft
Depth to LNAPL/DNAPL (btoc): NA ft
Depth to Top of Screen (btoc): ft
Screen Length: 10 ft

Water Column Height (do not include LNAPL or DNAPL): 91.55 ft btoc
If Depth to Top of Screen is > Depth to Water AND Screen Lenth is <4 feet,
Place Pump at: Total Well Depth – 0.5 (Screen Length + DNAPL Column Height) = 129.0 ft btoc
If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
Place Pump at: Total Well Depth – (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

Volume of Flow Through Cell): 500 mL
Minimum Purge Volume =
(3 x Flow Through Cell Volume) 1500 mL
Ambient PID/FID Reading: — ppm
Wellbore PID/FID Reading: — ppm

PURGE DATA

Pump Type: SS Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
					.2		3%		10% .2	20
.75gal	1517	42.61	Lt.BRN	~~YES~~	7.05	18.43	1.004	14	1.62	-44.4
1.75gal	1527	"	"	"	7.03	17.94	1.005	5.5	1.41	-48.8
2.75gal	1532	"	"	"	6.80	17.79	1.316	8.7	1.20	-44.9
3.75gal	1537	"	yellow	"	6.82	18.09	1.488	6.2	1.44	-44.7
4.75gal	1542	"	"	"	6.81	17.74	1.553	5.3	1.72	-45.0
5.75gal	1547	"	"	"	6.82	17.96	1.593	4.1	2.13	-45.4
6.75gal	1552	"	"	"	6.80	17.94	1.617	4.9	2.61	-45.3
7.75gal	1557	"	"	"	6.82	17.79	1.627	6.9	3.01	-46.3
8.75gal	1602	"	"	"	6.83	17.47	1.624	3.1	3.15	-46.3
9.75gal	1607	"	"	"	6.81	18.02	1.609	5.6	3.26	-46.4
10.75gal	1613	"	"	"	6.82	18.22	1.614	9.6	3.29	-46.7

Start Time: 1515
Stop Time: 1613
Elapsed Time:
Average Purge Rate (mL/min): 500ml/min
Water Quality Meter ID: YSI 556
Date Calibrated: 9/7/06

SAMPLING DATA

Sample Date: 9/7/06
Sample Method: Stainless Steel Monsoon
Sample Time: 1630
Sample Flow Rate: 200 ml/min 500ml/min
Analysis: VOCs SVOCs PCBs Pest Herb Metals
Date Calibrated: 9/7/06

COMMENTS:

Appendix B

Chains-of-Custody

Serial Number 94164

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

☒ STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: WGK Plume Stability	PROJECT NO.: 21561618	PROJECT LOCATION (STATE): IL
STL (LAB) PROJECT MANAGER: L. Giulizia	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: B. Billman	CLIENT PHONE: 314 429 0100	CLIENT FAX: 314 429 0462
CLIENT NAME: URS	CLIENT E-MAIL:	
CLIENT ADDRESS: 1001 Highlands Plaza Dr.W Ste300 StLouis MO 63110		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ☒
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	VOCs (8260B) HCl	SVOCs (8270C) None	Herbicides (8151A) None	Pesticides (8081A) None	PCBs (680) None	Metals (6010B) HNO3					REMARKS
8/30/06	1435	PS4-0806		X				3	2	2	1	1	1					
8/30/06	1600	TB-0806		X				3										

TEMP. 1.2

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Andrew Chapter	8/30/06	1600	[signature]	8/30/06	16:35	Jill Clarke	8/30/06	1700
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	8/30/06	16:00	Jill Clarke	8/30/06	16:35			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	8/31/06	944	YES ○ NO ○		68-19813	

STL 8240-680 (12/02)

Serial Number 94765

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
WGK Plume Stability	21561618	IL
STL (LAB) PROJECT MANAGER: L. Guilizia	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: B. Billman	CLIENT PHONE: 314-429-0100	CLIENT FAX: 314-429-0462
CLIENT NAME: URS	CLIENT E-MAIL	
CLIENT ADDRESS: 1001 Highlands Plaza Dr W Ste 300 St. Louis MO 63110		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	VOCs 8260B (HCL)	SVOCs 8270C (None)	Pest 8081A (None)	Herbs 8151A (None)	PCBs 608 (None)	Metals 6010B (HNO_3)	Air/CO_2 (None)	Nitrate (None H_2SO_4)	TOC (HCL)	Diss Gases (None)	Chloride/Sulfate (None)	REMARKS
8/31/06	1110	PS3-0806		X				3	2	1	2	1	1	1	2	1	3	1	
	1110	PS3-0806-AD		X				3	2	1	2	1	1	1	2	1	3	1	
	1525	PS[redacted]1-0806		X				3	2	1	2	1	1						
	1525	PS1-0806-AD		X				3	2	1	2	1	1						
	1600	TB2-0806		X				3											

TEMP 0.6/0.2/0.5

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Andrea Christman	8/31/06	1630		8/31/06	17:25		08/31/06	1800
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
	8/31/06	16:30		8/31/06	17:25			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
	9/1/06	0912	YES ○ NO ○		680-19844	

STL8240-680 (12/02)

Serial Number 94763

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

X STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: WGK Plume Stability	PROJECT NO.: 215616618.	PROJECT LOCATION (STATE): IL
STL (LAB) PROJECT MANAGER: L. Guilizia	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: B. Billman	CLIENT PHONE: 314-429-0100	CLIENT FAX: 314-429-0467
CLIENT NAME: URS	CLIENT E-MAIL:	
CLIENT ADDRESS: 1001 Highlands Plaza Dr W Ste 300 Saint Louis, MO 63110		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	VOCs (8260B) HCL	SVOCs (8270C) None	Pest (8081A) None	Herb (8151A) None	PCBs (608) None	Metals (6010B) HNO3					REMARKS
								NUMBER OF CONTAINERS SUBMITTED										
9/1/06	0945	PS14D-0906		X				3	2	1	2	1	1					
9/1/06	1100	PS14M-0906		X				3	2	1	2	1	1					
9/1/06	1200	TB3-0906		X				8										

TEMP.: 7.1

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Andrea Christ	9/1/06	1200						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
KL	9/2/06	0846	YES ○ NO ○		680-19844	

STL8240-680 (12/02)

Serial Number 88219

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: WGK Plume Stability	PROJECT NO.: 21561618	PROJECT LOCATION (STATE): IL
STL (LAB) PROJECT MANAGER: L. Giulizia	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: B. Bollman	CLIENT PHONE: 314-429-0100	CLIENT FAX: 314-429-0467
CLIENT NAME: URS Corporation	CLIENT E-MAIL:	
CLIENT ADDRESS: 1001 Highlands Plaza Dr W St 300 Saint Louis MO 63110		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	VOCs 8260B (HCL)	SVOCs 8270C (–)	PCBs 1680	Pest 8081A	Herb 8151A	Metals 6010B (HNO3)	Alk/CO2	Diss gases RSK175	TOC (H2SO4)	Nitrate	Sulfate/Chloride
9/5/06	0845	PS10-0906-EB		X				3	2	1	1	2	1					
9/5/06	1000	PS10-0906		X				3	2	1	1	2	1					
9/5/06	1100	PS16M-0906-EB		X				3	2	1	1	2	1	1	3	1	1	1
9/5/06	1215	PS16M-0906		X				3	2	1	1	2	1	1	3	1	1	1
9/5/06	1315	PS16D-0906		X				3	2	1	1	2	1	1	3	1	1	1
9/5/06	1545	PS15D-0906		X				3	2	1	1	2	1	1	3	1	1	1
9/5/06	1550	PS15D-0906-MS		X				3	2	1	1	2	1	1	3	1	1	1
9/5/06	1550	PS15D-0906-MSD		X				3	2	1	1	2	1	1	3	1	1	1
9/5/06	1840	PS15M-0906		X				3	2	1	1	2	1	1	3	1	1	1
9/5/06	1800	TB4-0906		X				3										

NUMBER OF CONTAINERS SUBMITTED

REMARKS: Coal Dust in Air (PS16M-0906); " (PS16D-0906)

TEMP.: [redacted]

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/5/06	1800	[signature]	9/05/06	18:35	[signature]	9-6-06	1000
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/5/06	18:00	[signature]	9/05/06	18:35			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	9/7/06	905	YES ○ NO ○		60-19943	

STL8240-680 (12/02)

Serial Number 88250

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: WGK Plume Stability	PROJECT NO.: 21561618	PROJECT LOCATION (STATE): IL	PAGE 1 OF 1
STL (LAB) PROJECT MANAGER: L. Guilizia	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY: DATE DUE
CLIENT (SITE) PM: B. Billman	CLIENT PHONE: 314 429 0100	CLIENT FAX: 314 429 0462	EXPEDITED REPORT DELIVERY (SURCHARGE): DATE DUE
CLIENT NAME: URS	CLIENT E-MAIL:		
CLIENT ADDRESS: 1001 Highlands Plaza Dr W 3t 300 Saint Louis MO 63110			
COMPANY CONTRACTING THIS WORK (if applicable):			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT,...)

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	VOCs HCL	SVOCs	PCBs	Metals HNO3	herb	pest	AIR/CO2	TOC HCL	Nitrate	H2SO4	Chloride/Sulfate	Diss gases	REMARKS
9/6/06	0915	PS11-0906		X				3	2	1	1	2	1	1	1	1	1	1	1	
9/6/06	1120	PS6-0906		X				3	2	1	1	2	1							
9/6/06	1415	PS9-0906		X				3	2	1	1	2	1							
9/6/06	1500	TB5-0906		X				3												

TEMP.: 12/10/04/0.8
1.4/0.8/0.6/1.2

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/6/06	1530	[signature]	9/6/06	16:15			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	9/6/06	15:30		9/6/06	16:15			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	9/7/06	9:05	YES / NO		680-19943	

STL8240-680 (12/02)

Serial Number 88249

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PAGE 1 OF 1

PROJECT REFERENCE: WGK Plume Stability	PROJECT NO.: 21561618	PROJECT LOCATION (STATE): IL	
STL (LAB) PROJECT MANAGER: L. Guilizia	P.O. NUMBER:	CONTRACT NO.:	
CLIENT (SITE) PM: B. Billman	CLIENT PHONE: 314 429 0100	CLIENT FAX: 314 429 0462	
CLIENT NAME: URS	CLIENT E-MAIL:		
CLIENT ADDRESS: 1001 Highlands Plaza Dr. W St 300 Saint Louis MO 63110			
COMPANY CONTRACTING THIS WORK (if applicable):			

STANDARD REPORT DELIVERY ○ DATE DUE ____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	VOCs (HCl)	SVOCs (1)	PCBs	Metals (HNO3)	Herb	Pest	Alk/CO2	TOC (HCl)	Nitrate	Chloride/Sulfate	Diss Gases	REMARKS
9/7/06	0845	PS12-0906	G	X				3	2	1	1	2	1	1	1	1	1	1	
9/7/06	1630	PS17-0906	G	X				3	2	1	1	2	1						
9/7/06	1700	TB5-0906		X				3											

PRESERVATIVES

TEMP. 1.1/0.6

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/7/06	1700	[signature]	9/7/06	17:50	[signature]	09/07/06	1830
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	9/7/06	17:00	[signature]	9/7/06	17:50			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
KL	9/8/06	0855	YES ○ NO ○		680-19943	

STL8240-680 (12/02)

Serial Number 00203

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: WGK Plume Stability	PROJECT NO.: 21561618	PROJECT LOCATION (STATE):
STL (LAB) PROJECT MANAGER: L. Guilizia	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: B. Billman	CLIENT PHONE: 314-429-0100	CLIENT FAX: 314-429-0462
CLIENT NAME: URS	CLIENT E-MAIL:	
CLIENT ADDRESS: 1001 Highlands Plaza Dr. West Ste 300 St. Louis MO 6341		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	VOCs (HCL)	SVOCs (–)	PCBs	Herb	Pest	Metals (HNO3)	Alkalinity	Nitrate (H2SO4)	Sulfate Chloride (–)	TOC (HCL)	Diss gases (–)	REMARKS
9/8/06	1000	PSB-0906		X				3	2	1	2	1	1	1	1	1	1	1	
9/8/06	1130	PS7-0906		X				3	2	1	2	1	1						
9/8/06	1500	PS13-0906		X				3	2	1	2	1	1						
9/8/06	1600	TB6-0906		X				3											

PRESERVATIVE

TEMP.: 12/0.9

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Jill Clark	9/8/06	1600	[signature]	9/8/06	1635	Jill Clark	9/8/06	1900
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	9/8/06	1600	Jill Clark	9/8/06	1635			

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	9/9/06	0837			680-19443	

STL8230-680 (12/02)

Serial Number 88251

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: NGK Plume Stability	PROJECT NO.: 21561618	PROJECT LOCATION (STATE): IL
STL (LAB) PROJECT MANAGER: L. Guilizia	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: B. Billman	CLIENT PHONE: 314-429-0100	CLIENT FAX: 314-429-0460
CLIENT NAME: URS	CLIENT E-MAIL:	
CLIENT ADDRESS: 1001 Highlands Plaza Dr. West Ste 300 St. Louis MO 63110		
COMPANY CONTRACTING THIS WORK (if applicable): Solutia		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	VOCs (HCl)	SVOCs (–)	PCBs	Herb	Pest	Metals (HNO_3)	Arc (CO_2)	Nitrate (H2SO4)	Sulfate (–)	TOC (HCl)	Diss Gases (–)	REMARKS
9/13/06	1035	~~PSMW5-0906~~ bm 9-13-06 PS5-0906		X				3	2	1	2	1	1	1	1	1	1	1	

NUMBER OF CONTAINERS SUBMITTED

TEMP.: 1.0

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9-13-06	1700	[signature]	9/13/06	1705	[signature]	9-14-06	1700
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LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
KL	9/15/06	1030	YES ○ NO ○		680-20270	

STL8240-680 (12/02)

Serial Number 88252

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: WGK PCB Mobility Study
PROJECT NO.: 21561640
PROJECT LOCATION (STATE): IL
STL (LAB) PROJECT MANAGER: L. Guilizia
P.O. NUMBER:
CONTRACT NO.:
CLIENT (SITE) PM: B. Billman
CLIENT PHONE: 314-429-0100
CLIENT FAX: 314-429-0462
CLIENT NAME: URS
CLIENT E-MAIL:
CLIENT ADDRESS: 1001 Highlands Plaza Dr. West Ste 300 St. Louis MO 63110
COMPANY CONTRACTING THIS WORK (if applicable): Solutia

PAGE 1 OF 1

STANDARD REPORT DELIVERY: DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE): DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

REQUIRED ANALYSIS — NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	HNO3 Metals	PCBs-Filtered (0.45µm)	PCBs Total	VOCs	SVOCs	REMARKS
9/13/06	1345	PS2-0906		X				X	~~X~~ 9-13-06	X	X	X	
9/13/06	1345	PS2-0906-F		X					X				
9/13/06	1520	PMA3S-0906		X						X	X	X	
9/13/06	1520	PMA3S-0906-F		X					X				
9/13/06	1520	PMA3S-0906-DUP *		X						X	X	X	
9/13/06	1520	PMA3S-0906-F-DUP		X					X				

*Associated with PCB Mobility & Migration Investigation

TEMP.: 1.0/2.1

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9-13-06	1700	[signature]	9/13/06	17:25	[signature]	9-14-06	1700
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	9/13/06	17:00	Stacy Eskins	9/13/06	17:25			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
KL	9/15/06	1030	YES / NO		680-20272	

STL8240-680 (12/02)

Appendix C

Quality Assurance Report

QUALITY ASSURANCE REPORT

Solutia Inc.
W.G. Krummrich Facility
Sauget, Illinois

Plume Stability Monitoring Program
3rd Quarter 2006
Data Report

Prepared for

Solutia Inc.
575 Maryville Centre Drive
St. Louis, MO 63141

January 2007

URS

URS Corporation
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St. Louis, MO 63100
(314) 429-0100
Project # 21561618.00003

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1.0 INTRODUCTION

This Quality Assurance Report presents the findings of a review of analytical data for groundwater samples collected in August and September 2006 at the Solutia W.G. Krummrich plant as part of the 3rd Quarter 2006 Plume Stability Monitoring Program. The samples were collected by URS Corporation personnel and analyzed by Severn Trent Laboratories (STL) located in Savannah, Georgia using USEPA methods, Standard methods and USEPA SW-846 methodologies. Samples were tested for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides,metals, dissolved gasses, and general chemistry.

One hundred percent of the data were subjected to a data quality review (Level III validation). The Level III validation was performed in order to confirm that the analytical data provided by Severn Trent were acceptable in quality for their intended use.

A total of 26 samples (20 investigative groundwater samples, two field duplicates, one matrix spike and matrix spike duplicate pair and two equipment blanks) were analyzed by STL. These samples were analyzed as four Sample Delivery Groups (SDGs) KPS019, KPS020, KPS021 and KPS022. The samples were analyzed according to the following USEPA SW-846 Methods:

- Method 8260B for VOCs (including dichlorobenzenes due to potential volatilization losses associated with Method 8270C)
- Method 8270C for SVOCs
- Method 680 for PCBs
- Method 8081A for pesticides
- Method 8151A for herbicides
- Method 6010B/7470A for metals and mercury

Samples were also analyzed for dissolved gasses and general chemistry parameters by the following methods:

- Method RSK-175 for Dissolved Gasses
- USEPA Method 310.1 for Alkalinity
- USEPA Method 325.2 for Chloride
- USEPA Method 353.2 for Nitrogen, Nitrate-Nitrite
- USEPA Method 375.4 for Sulfate
- USEPA Method 415.1 for Total Organic Carbon

In addition, seven trip blanks were included in the coolers that contained samples for VOC analysis and were analyzed for VOCs by Method 8260B. Samples were reviewed following procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004 and the Plume Stability Monitoring Plan, 2005.

The above guidelines provided the criteria to review the data. Additional quantitative criteria are given in the analytical methods. Qualifiers assigned by the data reviewer have been applied to the laboratory reporting forms (Form-1s). The qualifiers indicate data that did not meet acceptance criteria and corrective actions were not successful or not performed. The various qualifiers are explained in **Tables 1** and **2** below.

TABLE 1 Laboratory Data Qualifiers

Lab Qualifier	Definition
U	Analyte was not detected at or above the reporting limit.
*	LCS, LCSD, MS, MSD, MD or surrogate exceeds the control limits.
E	Result exceeded the calibration range, secondary dilution required.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
H	Sample was prepped or analyzed beyond the specified holding time.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

TABLE 2 URS Data Qualifiers

URS Qualifier	Definition
U	The analyte was analyzed for but was not detected.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Based on the criteria outlined, it is recommended that the results reported for these analyses be accepted for their intended use. Acceptable levels of accuracy, precision, and representativeness (based on MS/MSD, LCS, surrogate compounds and field duplicate results) were achieved for this data set, except where noted in this report. In addition, analytical completeness, defined to be the percentage of analytical results which are judged to be valid, including estimated detect (J) or estimated non-detect (UJ) values was 100 percent, which meets the completeness goal of 95 percent.

The data review included evaluation of the following criteria:

Organics

- Receipt condition and sample holding times
- Laboratory method blanks, field equipment blanks and trip blank samples
- Surrogate spike recoveries
- Laboratory control sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) sample recoveries and Relative Percent Difference (RPD) values
- Field duplicate results
- Results reported from dilutions
- Internal standard responses

Inorganics/General chemistry

- Receipt condition and sample holding times
- Laboratory method blank and field equipment blank samples
- LCS recoveries
- MS/MSD sample recoveries and matrix duplicate RPD values
- Field duplicate results
- Results reported from dilutions
- ICP serial dilutions

The following sections present the results of the data review.

2.0 RECEIPT CONDITION AND SAMPLE HOLDING TIMES

Sample holding time requirements for the analyses performed are presented in the methods and/or in the data review guidelines. Review of the sample collection, extraction and analysis dates involved comparing the chain-of-custody and the laboratory data summary forms for accuracy, consistency, and holding time compliance.

Extractions and/or analyses were completed within the recommended holding time requirements with the exception of the SVOC extraction for samples PS11-0906 and PS11-0906DL. These samples were re-extracted due to low surrogate recoveries in the original and diluted samples and were extracted eight days outside of recommended extraction holding time (seven days). Since the samples were re-extracted outside of holding time, the data results from the original and diluted run were used as part of the data review. PCB samples PS14D-0906 and PS14M-0906 were extracted approximately 3-4 hours outside of extraction hold time and samples PS12-0906 and PS12-0906DL were extracted approximately five hours outside of extraction hold time (7 days) for PCB analysis. Qualifications for these samples are listed in the following table.

Field ID	Parameter	Analyte	Qualification
PS14D-0906	PCBs	All PCBs	**UJ**
PS14M-0906	PCBs	All PCBs	**UJ**
PS12-0906	PCBs	All detects/nondetects	**J/UJ**
PS12-0906DL	PCBs	Monochlorobiphenyl	**J**

3.0 TRIP BLANKS, LABORATORY METHOD BLANK AND EQUIPMENT BLANK SAMPLES

Trip blank samples are used to assess VOC cross contamination of samples during shipment to the laboratory. One trip blank was submitted with each cooler shipped containing samples for VOC analyses for a total of seven trip blank samples. All associated samples were nondetect; therefore, no qualification of data was required.

Equipment blank samples are used to assess the effectiveness of equipment decontamination procedures. VOC compound 1,2-Dichlorobenzene was detected (1.4 µg/L) in equipment blank sample PS10-0906-EB. 1,2-Dichlorobenzene was detected (4.6 µg/L) at less than 5X the blank concentration in sample PS6-0906 and was qualified nondetect "U".

Laboratory method blank samples evaluate the existence and magnitude of contamination problems resulting from laboratory activities. All laboratory method blank samples were analyzed at the method prescribed frequencies. No analytes were detected in any of the method blanks.

4.0 SURROGATE SPIKE RECOVERIES

Surrogate compounds are used to evaluate overall laboratory performance for sample preparation efficiency on a per sample basis. All samples analyzed for VOCs, SVOCs, PCBs, pesticides and herbicides were spiked with surrogate compounds during sample preparation. USEPA National

Functional Guidelines for Organic Data Review state how data is qualified, if surrogate spike recoveries do not meet acceptance criteria.

Surrogate recoveries were within evaluation criteria with the exception of the samples in the table below. When surrogates were not recovered due to dilutions, no qualifiers were assigned. Surrogates that were outside evaluation criteria in MS/MSD and blank samples were not qualified because they are quality control samples.

SDG	Sample ID	Analysis	Surrogate	Rec. %	Range	Qualification
KPS019	PS4-0806 PS1-0806	SVOCs	2-fluorophenol Phenol-d5	124 107	56-100 55-104	Sample was not qualified. Only one surrogate was outside evaluation criteria, where two have to be out to qualify data.
KPS019	PS3-0806 PS3-0806-AD	SVOCs	2-Fluorobiphenyl 2-Fluorophenol Nitrobenzene-d5 Phenol-d5 Terphenyl-d14 2,4,6-Tribromophenol	0 D 0 D 0 D 0 D 0 D 0 D	59-103 56-100 60-102 55-104 10-154 55-126	None, surrogates were not recovered due to high level of dilution.
KPS019	PS3-0806 PS3-0806-AD PS1-0806 PS1-0806-AD PS14D-0906 PS14M-0906	Pesticides	DCB Decachlorobiphenyl DCB Decachlorobiphenyl DCB Decachlorobiphenyl DCB Decachlorobiphenyl DCB Decachlorobiphenyl DCB Decachlorobiphenyl	0 D 0 D 11 11 26 14	30-150	None, due to dilution. None, due to dilution. Estimated nondetect "**UJ**" Estimated nondetect "**UJ**" Estimated nondetect "**UJ**" Estimated nondetect "**UJ**"
KPS019	PS3-0806 PS3-0806-AD PS1-0806-AD	Pesticides	Tetrachloro-m-xylene Tetrachloro-m-xylene Tetrachloro-m-xylene	0 D 0 D 191	30-150 30-150 30-150	None, due to dilution. None, due to dilution. None, analytes nondetect.
KPS020	PS16D-0906 PS6-0906	SVOCs	Nitrobenzene-d5 2-fluorophenol	59 102	60-102 56-100	Samples were not qualified. Only one surrogate of each SVOC fraction was outside evaluation criteria, where two have to be out to qualify data.
KPS020	PS11-0906	SVOCs	2-Fluorobiphenyl 2-Fluorophenol Nitrobenzene-d5 2,4,6-Tribromophenol	33 54 37 46	59-103 56-100 60-102 55-126	All SVOCs estimated nondetect "**UJ**".
KPS020	PS11-0906DL	SVOCs	2-Fluorobiphenyl Nitrobenzene-d5 Phenol-d5 2,4,6-Tribromophenol	0 D 0 D 53 42	59-103 60-102 55-104 55-126	None, due to dilution. None, due to dilution. None, acid fraction compounds not reported from diluted sample.
KPS020	PS17-0906 PS17-0906DL	SVOCs	2-Fluorobiphenyl 2-Fluorophenol Nitrobenzene-d5 Phenol-d5 Terphenyl-d14 2,4,6-Tribromophenol	0 D 0 D 0 D 0 D 0 D 0 D	59-103 56-100 60-102 55-104 10-154 55-126	None, surrogates were not recovered due to high level of dilution.

SDG	Sample ID	Analysis	Surrogate	Rec. %	Range	Qualification
KPS020	PS8-0906	SVOCs	2-Fluorobiphenyl 2-Fluorophenol Phenol-d5 2,4,6-Tribromophenol	114 145 110 127	59-103 56-100 55-104 55-126	Only one base fraction surrogate out, no qualification for base fraction. Three acid fraction surrogates out, 2-chlorophenol and phenol detected and qualified estimated "**J**".
KPS020	PS7-0906DL	SVOCs	2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	0 D 0 D 0 D	59-103 60-102 10-154	None, surrogates were not recovered due to high level of dilution.
KPS020	PS10-0906 PS16D-0906 PS15D-0906 PS11-0906 PS6-0906 PS7-0906 PS13-0906	Pesticides	DCB Decachlorobiphenyl DCB Decachlorobiphenyl DCB Decachlorobiphenyl DCB Decachlorobiphenyl DCB Decachlorobiphenyl DCB Decachlorobiphenyl DCB Decachlorobiphenyl	26 19 13 29 11 10 18	30-150	All pesticides were qualified estimated nondetect "**UJ**".
KPS022	PS2-0906DL	SVOCs	2-Fluorobiphenyl Nitrobenzene-d5 Phenol-d5	55 51 51	59-103 60-102 55-104	Only one acid fraction surrogate out, two base fraction surrogates out and 4-chloroaniline was qualified estimated "**J**".

5.0 LABORATORY CONTROL SAMPLE RECOVERIES

Laboratory control samples (LCS) are analyzed with each analytical batch to assess the accuracy of the analytical process. All LCS recoveries were within evaluation criteria with the exception of the LCSs in the table below. Qualifications were assigned as appropriate.

Data that was reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Also if the LCS was related to QA/QC samples such as trip blanks, and MS/MSDs, no qualifiers were assigned.

SDG	LSC ID	Sample ID	LCS compound	Rec. %	Range	Qualification
KPS019	680-54538/4	PS4-0806	Dichlorodifluoromethane	62	70-130	Estimated nondetect "**UJ**"
KPS019	680-54538/4	PS3-0806	Dichlorodifluoromethane	62	70-130	Estimated nondetect "**UJ**"
KPS019	680-54538/4	PS1-0806-AD	Dichlorodifluoromethane	62	70-130	Estimated nondetect "**UJ**"
KPS019	680-54538/4	PS14M-0906	Dichlorodifluoromethane	62	70-130	Estimated nondetect "**UJ**"
KPS020	680-54539/9	PS10-0906	Dichlorodifluoromethane	58	70-130	Estimated nondetect "**UJ**"
KPS020	680-54539/9	PS16M-0906	Dichlorodifluoromethane	58	70-130	Estimated nondetect "**UJ**"
KPS020	680-54539/9	PS10-0906	Vinyl chloride	58	59-136	Estimated nondetect "**UJ**"
KPS020	680-54539/9	PS16M-0906	Vinyl chloride	58	59-136	Estimated nondetect "**UJ**"

6.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) SAMPLES

MS/MSD samples are analyzed to assess the accuracy and precision of the analytical process on an analytical sample in a particular matrix. MS/MSD samples were required to be collected at a frequency of one per 20 investigative samples in accordance with the work plan. URS Corporation submitted one MS/MSD sample set for 20 investigative samples meeting the work plan frequency requirement.

No qualifications were made to the data if the MS/MSD percent recoveries were zero due to dilutions or if the percent RPD was the only factor out of criteria. Also, USEPA National Functional Guidelines for Organic Data Review (October 1999) states that organic data should not be qualified based on MS/MSD criteria alone. Therefore, if recoveries were outside evaluation criteria due to matrix interference or abundance of analytes, no qualifiers were assigned unless these analytes had other quality control criteria outside evaluation criteria.

The MS/MSD recoveries and RPDs that did not meet evaluation criteria are in the table below.

SDG	Analysis	Analyte(s)	MS/MSD %Rec.	Criteria %	RPD	RPD Limit	Qualifier
KPS020	VOCs	1,1,1,2-tetrachloroethane	111/114	62-107	3	30	None, LCS recovery were within criteria.
KPS020	SVOCs	2-chlorophenol Phenol	110/101 290/239	54-106 46-106	9 19	40 40	None, LCS recovery were within criteria.
KPS020	Pesticides	Endrin aldehyde	77/126	33-142	47	40	MS/MSD recoveries were within criteria, samples are not qualified by RPD alone.

Matrix spike and matrix duplicates were analyzed for metals and general chemistry analysis. The matrix duplicate recoveries and RPDs that did not meet evaluation criteria are in the table below.

SDG	Analysis	Analyte	MS % Rec.	Criteria %	RPD	RPD Limit	Qualifier
KPS020	General chemistry	Sulfate	132/138	75-125	4	30	Sulfate was nondetect in sample PS15D-0906, no qualification required.
KPS020	General chemistry	Chloride	47/50	85-115	0	30	Chloride was qualified "J" in sample PS15D-0906.

7.0 FIELD DUPLICATE RESULTS

Field duplicate results are used to evaluate precision of the entire data collection activity, including sampling, analysis and site heterogeneity. When results for both duplicate and sample values are greater than five times the practical quantitation limit (PQL), satisfactory precision is indicated by an RPD less than or equal

to 25 percent for aqueous samples. Where one or both of the results of a field duplicate pair are reported at less than five times the PQL, satisfactory precision is indicated if the field duplicate results agree within 2.5 times the quantitation limit. Field duplicate results that do not meet these criteria may indicate unsatisfactory precision of the results.

Two field duplicate samples were collected for the 20 investigative samples. This satisfies the requirement in the work plan (one per 10 investigative samples or 10 percent). PCB sample PS3-0806 was duplicated and compound Trichlorobiphenyl had an RPD (37) between the parent and duplicate, and was qualified estimated "J".

8.0 INTERNAL STANDARD RESPONSES

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during each analytical run. IS areas must be within -50 percent to +100 percent for VOCs and SVOCs. For the PCBs (Method 680), the IS areas must be within +/- 30 percent of the preceding calibration verification (CV) IS value. Also, the IS retention times must be within 30 seconds of the preceding IS CV retention time. If the IS area count is outside criteria, Method 680 indicates the mean IS area obtained during the initial calibration (ICAL) (+/- 50 percent) should be used.

The internal standards area responses for the VOCs, SVOCs, Pesticides and PCBs were verified for the data review. All IS responses met the criteria as described above, with the exception of internal standard bromonitrobenzene in sample PS17-0906. This internal standard had an area response that was outside evaluation criteria. All analytes were nondetect and qualified estimated nondetect "UJ".

9.0 RESULTS REPORTED FROM DILUTIONS

Several VOC, SVOC and PCB samples were diluted and reanalyzed due to the original results exceeding the calibration range of the instrument. These results were qualified by the laboratory with "E" qualifiers. Data for the original runs were reported except for the data results that were "E" qualified. The samples that had "E" qualifiers were diluted and reanalyzed. The diluted sample results of the "E" qualifiers were the only results reported from the diluted samples.

Appendix D

Groundwater Analytical Results

SDG KPM003

Results of Samples from Wells:

PMA3S
PMA1M
PMA1S
PMA3M
PMA2M
PMA2S

Solutia Krummrich Data Review

Laboratory SDG: KPM003

Reviewer: Tony Sedlacek

Date Reviewed: 11/02/2006

Guidance: USEPA National Functional Guidelines for Organic Data Review 1999.

Applicable Work Plan: PCB Mobility and Migration Investigation 2005

Sample Identification #	Sample Identification #
PMA3S-0906	PMA3S-0906-F
PMA3S-0906-DUP	PMA3S-0906-F-DUP
PMA1M-0906	PMA1M-0906-F
PMA1S-0906-F	PMA1S-0906
TB8-0906	PMA3M-0906
PMA3M-0906-F	PMA2M-0906
PMA2M-0906-F	PMA2S-0906-EB
PMA2S-0906-EB-F	PMA2S-0906
PMA2S-0906-F	TB7-0906

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated VOC and SVOC MS/MSD recoveries were outside evaluation criteria. An SVOC surrogate and LCS recovery was outside evaluation criteria. PCB and SVOC internal standards recovered outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
PMA2A-0906-EB	VOCs	Benzene	1.0	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes, except as noted below.

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
680-55366/16-A	SVOCs	Benzo[a]anthracene	**120**	N/A	55-119

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes, except as noted below.

Field ID	Parameter	Surrogate	Recovery	Criteria
PMA2M-0906	SVOCs	2-fluorophenol	**54**	56-100

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Since only one acid fraction surrogate was outside criteria for sample PMA2M-0906 and Functional Guidelines indicates to qualify data if two or more surrogates per SVOC fraction are outside criteria, no qualification of the SVOC data was required. SVOC surrogates were not recovered due to dilution in samples PMA1M-0906, PMA3M-0906 and PMA2M-0906, no qualification of data was required.

Field ID	Parameter	Analyte	Qualification
N/A			

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

Yes, sample PMA1M-0906 was spiked and analyzed for VOCs, SVOCs and PCBs and PMA1M-0906-F was spiked and analyzed for PCBs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
PMA1M-0906	VOCs	Benzene	**126**/112	5	74-122/30
PMA1M-0906	VOCs	Chlorobenzene	**131**/116	6	75-123/30
PMA1M-0906	VOCs	Dichlorodifluoromethane	**184/171**	8	70-130/30
PMA1M-0906	VOCs	1,1,1,2-Tetrachloroethane	**121/114**	6	62-107/30
PMA1M-0906	SVOCs	bis(2-chloroethoxy)methane	**135/130**	4	55-115/40
PMA1M-0906	SVOCs	4-chloroaniline	**112**/98	8	22-107/40
PMA1M-0906	SVOCs	4-chloro-3-methylphenol	**508/492**	3	58-118/40
PMA1M-0906	SVOCs	4,6-dinitro-2-methylphenol	**35/32**	8	42-155/40
PMA1M-0906	SVOCs	2,6-dinitrotoluene	**66/64**	4	65-124/40
PMA1M-0906	SVOCs	2-nitrophenol	**54/55**	1	59-114/40

Analytical data that required qualification based on MS/MSD data are included in the table below. The MS/MSD recoveries for organic compounds with sample concentrations greater than four times (4X) the matrix spike concentration did not require evaluation or qualification. USEPA National Functional Guidelines for Organic Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria, therefore no qualification of the data was required.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes, except as noted below.

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
PMA1M-0906	PCBs	Phenanthrene-d10	**188673**	195495-363061
PMA1M-0906	PCBs	Chrysene-d12	**76756**	96194-178646
PMA1M-0906-F	PCBs	Chrysene-d12	**81309**	96194-178646
PMA3S-0906-F	PCBs	Chrysene-d12	**76986**	82724-153630
PMA1S-0906-F	PCBs	Phenanthrene-d10	**169799**	179743-333807
PMA1S-0906-F	PCBs	Chrysene-d12	**67123**	82724-153630
PMA3M-0906-F	PCBs	Chrysene-d12	**81998**	82724-153630

Analytical data that required qualification based on IS data are included in the table below. SVOC internal standard naphthalene-d8 recovered low in MS/MSD sample PMA1M-0906. MS/MSD samples are quality control samples and are not qualified. Internal standard areas for phenanthrene-d_{10} and chrysene-d_{12} recovered within the initial calibration average internal standard area for samples PMA1M-0906, PMA1M-0906-F, PMA3S-0906-F, PMA1S-0906-F, PMA3M-0906-F; therefore, no qualification of data was required.

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
PMA3S-0906	PMA3S-0906-DUP
PMA3S-0906-F	PMA3S-0906-F-DUP

Were field duplicates within evaluation criteria?

Yes

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

No

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
PMA1M-0906	VOCs	25
PMA3M-0906	VOCs	10
PMA2M-0906	VOCs	50
PMA1M-0906	SVOCs	5
PMA3M-0906	SVOCs	5
PMA2M-0906	SVOCs	5

12.0 Additional Qualifications

Were additional qualifications applied?

No

SAMPLE RESULTS

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906**

Lab Sample ID: 680-20272-3
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1542
Date Prepared: 09/21/2006 1542

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0914.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	290	E	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.8		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutanol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
Methyl Ethyl Ketone	10	U	10
methyl isobutyl ketone	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906**

Lab Sample ID: 680-20272-3
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1542
Date Prepared: 09/21/2006 1542

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0914.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	77 - 120
Dibromofluoromethane	94	75 - 123
Toluene-d8 (Surr)	98	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906**

Lab Sample ID: 680-20272-3
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 09/21/2006 1848
Date Prepared: 09/21/2006 1848

Analysis Batch: 680-55512
Run Type: DL

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0921.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	130	U	130
Acetonitrile	200	U	200
Acrolein	100	U	100
Acrylonitrile	100	U	100
Benzene	230	D	5.0
Bromoform	5.0	U	5.0
Bromomethane	5.0	U	5.0
Carbon disulfide	10	U	10
Carbon tetrachloride	5.0	U	5.0
Chlorobenzene	5.0	U	5.0
2-Chloro-1,3-butadiene	5.0	U	5.0
Chlorodibromomethane	5.0	U	5.0
Chloroethane	5.0	U	5.0
Chloroform	5.0	U	5.0
Chloromethane	5.0	U	5.0
3-Chloro-1-propene	5.0	U	5.0
cis-1,3-Dichloropropene	5.0	U	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
Dibromomethane	5.0	U	5.0
1,2-Dichlorobenzene	5.0	U	5.0
1,3-Dichlorobenzene	5.0	U	5.0
1,4-Dichlorobenzene	5.0	U	5.0
Dichlorobromomethane	5.0	U	5.0
Dichlorodifluoromethane	5.0	U	5.0
1,2-Dichloroethane	5.0	U	5.0
1,1-Dichloroethane	5.0	U	5.0
1,1-Dichloroethene	5.0	U	5.0
1,2-Dichloropropane	5.0	U	5.0
Ethylbenzene	5.0	U	5.0
Ethylene Dibromide	5.0	U	5.0
Ethyl methacrylate	5.0	U	5.0
2-Hexanone	50	U	50
Iodomethane	25	U	25
Isobutanol	200	U	200
Methacrylonitrile	100	U	100
Methylene Chloride	25	U	25
Methyl Ethyl Ketone	50	U	50
methyl isobutyl ketone	50	U	50
Methyl methacrylate	5.0	U	5.0
Pentachloroethane	25	U	25
Propionitrile	100	U	100
Styrene	5.0	U	5.0
1,1,2,2-Tetrachloroethane	5.0	U	5.0

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906**

Lab Sample ID: 680-20272-3
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 09/21/2006 1848
Date Prepared: 09/21/2006 1848

Analysis Batch: 680-55512
Run Type: DL

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0921.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	5.0	U	5.0
Tetrachloroethene	5.0	U	5.0
Toluene	5.0	U	5.0
trans-1,4-Dichloro-2-butene	10	U	10
trans-1,2-Dichloroethene	5.0	U	5.0
trans-1,3-Dichloropropene	5.0	U	5.0
1,1,2-Trichloroethane	5.0	U	5.0
1,1,1-Trichloroethane	5.0	U	5.0
Trichloroethene	5.0	U	5.0
Trichlorofluoromethane	5.0	U	5.0
1,2,3-Trichloropropane	5.0	U	5.0
Vinyl acetate	10	U	10
Vinyl chloride	5.0	U	5.0
Xylenes, Total	10	U	10

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	77 - 120
Dibromofluoromethane	95	75 - 123
Toluene-d8 (Surr)	96	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-DUP**

Lab Sample ID: 680-20272-5
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1608
Date Prepared: 09/21/2006 1608

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0915.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	260	E	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.5		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutanol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
Methyl Ethyl Ketone	10	U	10
methyl isobutyl ketone	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-DUP**

Lab Sample ID: 680-20272-5
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1608
Date Prepared: 09/21/2006 1608

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0915.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	77 - 120
Dibromofluoromethane	96	75 - 123
Toluene-d8 (Surr)	100	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-DUP**

Lab Sample ID: 680-20272-5
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 09/22/2006 1459
Date Prepared: 09/22/2006 1459

Analysis Batch: 680-55616
Run Type: DL

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0938.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	130	U	130
Acetonitrile	200	U	200
Acrolein	100	U	100
Acrylonitrile	100	U	100
Benzene	250	D	5.0
Bromoform	5.0	U	5.0
Bromomethane	5.0	U	5.0
Carbon disulfide	10	U	10
Carbon tetrachloride	5.0	U	5.0
Chlorobenzene	5.0	U	5.0
2-Chloro-1,3-butadiene	5.0	U	5.0
Chlorodibromomethane	5.0	U	5.0
Chloroethane	5.0	U	5.0
Chloroform	5.0	U	5.0
Chloromethane	5.0	U	5.0
3-Chloro-1-propene	5.0	U	5.0
cis-1,3-Dichloropropene	5.0	U	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
Dibromomethane	5.0	U	5.0
1,2-Dichlorobenzene	5.0	U	5.0
1,3-Dichlorobenzene	5.0	U	5.0
1,4-Dichlorobenzene	5.0	U	5.0
Dichlorobromomethane	5.0	U	5.0
Dichlorodifluoromethane	5.0	U	5.0
1,2-Dichloroethane	5.0	U	5.0
1,1-Dichloroethane	5.0	U	5.0
1,1-Dichloroethene	5.0	U	5.0
1,2-Dichloropropane	5.0	U	5.0
Ethylbenzene	5.0	U	5.0
Ethylene Dibromide	5.0	U	5.0
Ethyl methacrylate	5.0	U	5.0
2-Hexanone	50	U	50
Iodomethane	25	U	25
Isobutanol	200	U	200
Methacrylonitrile	100	U	100
Methylene Chloride	25	U	25
Methyl Ethyl Ketone	50	U	50
methyl isobutyl ketone	50	U	50
Methyl methacrylate	5.0	U	5.0
Pentachloroethane	25	U	25
Propionitrile	100	U	100
Styrene	5.0	U	5.0
1,1,2,2-Tetrachloroethane	5.0	U	5.0

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-DUP**

Lab Sample ID: 680-20272-5
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 09/22/2006 1459
Date Prepared: 09/22/2006 1459

Analysis Batch: 680-55616
Run Type: DL

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0938.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	5.0	U	5.0
Tetrachloroethene	5.0	U	5.0
Toluene	5.0	U	5.0
trans-1,4-Dichloro-2-butene	10	U	10
trans-1,2-Dichloroethene	5.0	U	5.0
trans-1,3-Dichloropropene	5.0	U	5.0
1,1,2-Trichloroethane	5.0	U	5.0
1,1,1-Trichloroethane	5.0	U	5.0
Trichloroethene	5.0	U	5.0
Trichlorofluoromethane	5.0	U	5.0
1,2,3-Trichloropropane	5.0	U	5.0
Vinyl acetate	10	U	10
Vinyl chloride	5.0	U	5.0
Xylenes, Total	10	U	10

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	77 - 120
Dibromofluoromethane	97	75 - 123
Toluene-d8 (Surr)	98	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1M-0906**

Lab Sample ID: 680-20272-7
Client Matrix: Water

Date Sampled: 09/15/2006 0850
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 25
Date Analyzed: 09/21/2006 1356
Date Prepared: 09/21/2006 1356

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0910.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	630	U	630
Acetonitrile	1000	U	1000
Acrolein	500	U	500
Acrylonitrile	500	U	500
Benzene	1900		25
Bromoform	25	U	25
Bromomethane	25	U	25
Carbon disulfide	50	U	50
Carbon tetrachloride	25	U	25
Chlorobenzene	1400		25
2-Chloro-1,3-butadiene	25	U	25
Chlorodibromomethane	25	U	25
Chloroethane	25	U	25
Chloroform	25	U	25
Chloromethane	25	U	25
3-Chloro-1-propene	25	U	25
cis-1,3-Dichloropropene	25	U	25
1,2-Dibromo-3-Chloropropane	25	U	25
Dibromomethane	25	U	25
1,2-Dichlorobenzene	25	U	25
1,3-Dichlorobenzene	25	U	25
1,4-Dichlorobenzene	25	U	25
Dichlorobromomethane	25	U	25
Dichlorodifluoromethane	25	U	25
1,2-Dichloroethane	25	U	25
1,1-Dichloroethane	25	U	25
1,1-Dichloroethene	25	U	25
1,2-Dichloropropane	25	U	25
Ethylbenzene	25	U	25
Ethylene Dibromide	25	U	25
Ethyl methacrylate	25	U	25
2-Hexanone	250	U	250
Iodomethane	130	U	130
Isobutanol	1000	U	1000
Methacrylonitrile	500	U	500
Methylene Chloride	130	U	130
Methyl Ethyl Ketone	250	U	250
methyl isobutyl ketone	250	U	250
Methyl methacrylate	25	U	25
Pentachloroethane	130	U	130
Propionitrile	500	U	500
Styrene	25	U	25
1,1,2,2-Tetrachloroethane	25	U	25

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1M-0906**

Lab Sample ID: 680-20272-7
Client Matrix: Water

Date Sampled: 09/15/2006 0850
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 25
Date Analyzed: 09/21/2006 1356
Date Prepared: 09/21/2006 1356

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0910.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	25	U	25
Tetrachloroethene	25	U	25
Toluene	25	U	25
trans-1,4-Dichloro-2-butene	50	U	50
trans-1,2-Dichloroethene	25	U	25
trans-1,3-Dichloropropene	25	U	25
1,1,2-Trichloroethane	25	U	25
1,1,1-Trichloroethane	25	U	25
Trichloroethene	25	U	25
Trichlorofluoromethane	25	U	25
1,2,3-Trichloropropane	25	U	25
Vinyl acetate	50	U	50
Vinyl chloride	25	U	25
Xylenes, Total	50	U	50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	77 - 120
Dibromofluoromethane	97	75 - 123
Toluene-d8 (Surr)	97	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1S-0906**

Lab Sample ID: 680-20272-10
Client Matrix: Water

Date Sampled: 09/15/2006 1115
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1635
Date Prepared: 09/21/2006 1635

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0916.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	12		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	2.2		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutanol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
Methyl Ethyl Ketone	10	U	10
methyl isobutyl ketone	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1S-0906**

Lab Sample ID: 680-20272-10
Client Matrix: Water

Date Sampled: 09/15/2006 1115
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1635
Date Prepared: 09/21/2006 1635

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0916.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	77 - 120
Dibromofluoromethane	95	75 - 123
Toluene-d8 (Surr)	97	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **TBB-0906**

Lab Sample ID: 680-20272-11TB
Client Matrix: Water

Date Sampled: 09/15/2006 0000
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1701
Date Prepared: 09/21/2006 1701

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0917.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.0	U	1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutanol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
Methyl Ethyl Ketone	10	U	10
methyl isobutyl ketone	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **TBB-0906**

Lab Sample ID: 680-20272-11TB
Client Matrix: Water

Date Sampled: 09/15/2006 0000
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1701
Date Prepared: 09/21/2006 1701

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0917.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	77 - 120
Dibromofluoromethane	97	75 - 123
Toluene-d8 (Surr)	97	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3M-0906**

Lab Sample ID: 680-20272-12
Client Matrix: Water

Date Sampled: 09/14/2006 1010
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 09/21/2006 1914
Date Prepared: 09/21/2006 1914

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0922.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	250	U	250
Acetonitrile	400	U	400
Acrolein	200	U	200
Acrylonitrile	200	U	200
Benzene	1500		10
Bromoform	10	U	10
Bromomethane	10	U	10
Carbon disulfide	20	U	20
Carbon tetrachloride	10	U	10
Chlorobenzene	1300		10
2-Chloro-1,3-butadiene	10	U	10
Chlorodibromomethane	10	U	10
Chloroethane	10	U	10
Chloroform	10	U	10
Chloromethane	10	U	10
3-Chloro-1-propene	10	U	10
cis-1,3-Dichloropropene	10	U	10
1,2-Dibromo-3-Chloropropane	10	U	10
Dibromomethane	10	U	10
1,3-Dichlorobenzene	50		10
1,4-Dichlorobenzene	600		10
1,2-Dichlorobenzene	110		10
Dichlorobromomethane	10	U	10
Dichlorodifluoromethane	10	U	10
1,2-Dichloroethane	10	U	10
1,1-Dichloroethane	10	U	10
1,1-Dichloroethene	10	U	10
1,2-Dichloropropane	10	U	10
Ethylbenzene	92		10
Ethylene Dibromide	10	U	10
Ethyl methacrylate	10	U	10
2-Hexanone	100	U	100
Iodomethane	50	U	50
Isobutanol	400	U	400
Methacrylonitrile	200	U	200
Methylene Chloride	50	U	50
Methyl Ethyl Ketone	100	U	100
methyl isobutyl ketone	100	U	100
Methyl methacrylate	10	U	10
Pentachloroethane	50	U	50
Propionitrile	200	U	200
Styrene	10	U	10
1,1,2,2-Tetrachloroethane	10	U	10

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3M-0906**

Lab Sample ID: 680-20272-12
Client Matrix: Water

Date Sampled: 09/14/2006 1010
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 09/21/2006 1914
Date Prepared: 09/21/2006 1914

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0922.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	10	U	10
Tetrachloroethene	10	U	10
Toluene	16		10
trans-1,4-Dichloro-2-butene	20	U	20
trans-1,2-Dichloroethene	10	U	10
trans-1,3-Dichloropropene	10	U	10
1,1,2-Trichloroethane	10	U	10
1,1,1-Trichloroethane	10	U	10
Trichloroethene	10	U	10
Trichlorofluoromethane	10	U	10
1,2,3-Trichloropropane	10	U	10
Vinyl acetate	20	U	20
Vinyl chloride	10	U	10
Xylenes, Total	280		20

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	77 - 120
Dibromofluoromethane	95	75 - 123
Toluene-d8 (Surr)	99	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2M-0906**

Lab Sample ID: 680-20272-14
Client Matrix: Water

Date Sampled: 09/14/2006 1220
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 09/21/2006 1515
Date Prepared: 09/21/2006 1515

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0913.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	1300	U	1300
Acetonitrile	2000	U	2000
Acrolein	1000	U	1000
Acrylonitrile	1000	U	1000
Benzene	4800		50
Bromoform	50	U	50
Bromomethane	50	U	50
Carbon disulfide	100	U	100
Carbon tetrachloride	50	U	50
Chlorobenzene	7300		50
2-Chloro-1,3-butadiene	50	U	50
Chlorodibromomethane	50	U	50
Chloroethane	50	U	50
Chloroform	50	U	50
Chloromethane	50	U	50
3-Chloro-1-propene	50	U	50
cis-1,3-Dichloropropene	50	U	50
1,2-Dibromo-3-Chloropropane	50	U	50
Dibromomethane	50	U	50
1,2-Dichlorobenzene	50	U	50
1,3-Dichlorobenzene	50	U	50
1,4-Dichlorobenzene	50	U	50
Dichlorobromomethane	50	U	50
Dichlorodifluoromethane	50	U	50
1,2-Dichloroethane	50	U	50
1,1-Dichloroethane	50	U	50
1,1-Dichloroethene	50	U	50
1,2-Dichloropropane	50	U	50
Ethylbenzene	50	U	50
Ethylene Dibromide	50	U	50
Ethyl methacrylate	50	U	50
2-Hexanone	500	U	500
Iodomethane	250	U	250
Isobutanol	2000	U	2000
Methacrylonitrile	1000	U	1000
Methylene Chloride	250	U	250
Methyl Ethyl Ketone	500	U	500
methyl isobutyl ketone	500	U	500
Methyl methacrylate	50	U	50
Pentachloroethane	250	U	250
Propionitrile	1000	U	1000
Styrene	50	U	50
1,1,2,2-Tetrachloroethane	50	U	50

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2M-0906**

Lab Sample ID: 680-20272-14
Client Matrix: Water

Date Sampled: 09/14/2006 1220
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 09/21/2006 1515
Date Prepared: 09/21/2006 1515

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0913.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	50	U	50
Tetrachloroethene	50	U	50
Toluene	50	U	50
trans-1,4-Dichloro-2-butene	100	U	100
trans-1,2-Dichloroethene	50	U	50
trans-1,3-Dichloropropene	50	U	50
1,1,2-Trichloroethane	50	U	50
1,1,1-Trichloroethane	50	U	50
Trichloroethene	50	U	50
Trichlorofluoromethane	50	U	50
1,2,3-Trichloropropane	50	U	50
Vinyl acetate	100	U	100
Vinyl chloride	50	U	50
Xylenes, Total	100	U	100

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	77 - 120
Dibromofluoromethane	97	75 - 123
Toluene-d8 (Surr)	99	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906-EB**

Lab Sample ID: 680-20272-16
Client Matrix: Water

Date Sampled: 09/14/2006 1400
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1728
Date Prepared: 09/21/2006 1728

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0918.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	1.0		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.0	U	1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutanol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
Methyl Ethyl Ketone	10	U	10
methyl isobutyl ketone	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906-EB**

Lab Sample ID: 680-20272-16
Client Matrix: Water

Date Sampled: 09/14/2006 1400
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1728
Date Prepared: 09/21/2006 1728

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0918.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	77 - 120
Dibromofluoromethane	92	75 - 123
Toluene-d8 (Surr)	96	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906**

Lab Sample ID: 680-20272-18
Client Matrix: Water

Date Sampled: 09/14/2006 1525
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1821
Date Prepared: 09/21/2006 1821

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0920.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	16		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.1		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.1		1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutanol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
Methyl Ethyl Ketone	10	U	10
methyl isobutyl ketone	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906**

Lab Sample ID: 680-20272-18
Client Matrix: Water

Date Sampled: 09/14/2006 1525
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1821
Date Prepared: 09/21/2006 1821

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0920.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	77 - 120
Dibromofluoromethane	95	75 - 123
Toluene-d8 (Surr)	96	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **TB7-0906**

Lab Sample ID: 680-20272-20TB
Client Matrix: Water

Date Sampled: 09/14/2006 0000
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1755
Date Prepared: 09/21/2006 1755

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0919.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.0	U	1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutanol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
Methyl Ethyl Ketone	10	U	10
methyl isobutyl ketone	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **TB7-0906**

Lab Sample ID: 680-20272-20TB
Client Matrix: Water

Date Sampled: 09/14/2006 0000
Date Received: 09/16/2006 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 09/21/2006 1755
Date Prepared: 09/21/2006 1755

Analysis Batch: 680-55512

Instrument ID: GC/MS Volatiles - O
Lab File ID: o0919.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	77 - 120
Dibromofluoromethane	97	75 - 123
Toluene-d8 (Surr)	97	79 - 122

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906**

Lab Sample ID: 680-20272-3
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/22/2006 1400
Date Prepared: 09/21/2006 1006

Analysis Batch: 680-56387
Prep Batch: 680-55503

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 0.5 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.25		0.10
Dichlorobiphenyl	0.10	U	0.10
Trichlorobiphenyl	0.10	U	0.10
Tetrachlorobiphenyl	0.20	U	0.20
Pentachlorobiphenyl	0.20	U	0.20
Hexachlorobiphenyl	0.20	U	0.20
Heptachlorobiphenyl	0.30	U	0.30
Octachlorobiphenyl	0.30	U	0.30
Nonachlorobiphenyl	0.50	U	0.50
DCB Decachlorobiphenyl	0.50	U	0.50

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	70	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-F**

Lab Sample ID: 680-20272-4
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1054
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	69	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-DUP**

Lab Sample ID: 680-20272-5
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1127
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.32		0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	68	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-F-DUP**

Lab Sample ID: 680-20272-6
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1201
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.096	U	0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	68	44 - 104

Analytical Data

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1M-0906**

Lab Sample ID: 680-20272-7
Client Matrix: Water

Date Sampled: 09/15/2006 0850
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/25/2006 1424
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.24		0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	63	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1M-0906-F**

Lab Sample ID: 680-20272-8
Client Matrix: Water

Date Sampled: 09/15/2006 0850
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/25/2006 1459
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	67	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1S-0906-F**

Lab Sample ID: 680-20272-9
Client Matrix: Water

Date Sampled: 09/15/2006 1115
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1235
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.096	U	0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	77	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1S-0906**

Lab Sample ID: 680-20272-10
Client Matrix: Water

Date Sampled: 09/15/2006 1115
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1309
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.096	U	0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	59	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3M-0906**

Lab Sample ID: 680-20272-12
Client Matrix: Water

Date Sampled: 09/14/2006 1010
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1344
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	1.8		0.094
Dichlorobiphenyl	0.14		0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	52	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3M-0906-F**

Lab Sample ID: 680-20272-13
Client Matrix: Water

Date Sampled: 09/14/2006 1010
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1418
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.10	U	0.10
Dichlorobiphenyl	0.10	U	0.10
Trichlorobiphenyl	0.10	U	0.10
Tetrachlorobiphenyl	0.20	U	0.20
Pentachlorobiphenyl	0.20	U	0.20
Hexachlorobiphenyl	0.20	U	0.20
Heptachlorobiphenyl	0.31	U	0.31
Octachlorobiphenyl	0.31	U	0.31
Nonachlorobiphenyl	0.51	U	0.51
DCB Decachlorobiphenyl	0.51	U	0.51

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	63	44 - 104

Analytical Data

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2M-0906**

Lab Sample ID: 680-20272-14
Client Matrix: Water

Date Sampled: 09/14/2006 1220
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1452
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	2.4		0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	55	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2M-0906-F**

Lab Sample ID: 680-20272-15
Client Matrix: Water

Date Sampled: 09/14/2006 1220
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1525
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.096	U	0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	59	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906-EB**

Lab Sample ID: 680-20272-16
Client Matrix: Water

Date Sampled: 09/14/2006 1400
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1559
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	73	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906-EB-F**

Lab Sample ID: 680-20272-17
Client Matrix: Water

Date Sampled: 09/14/2006 1400
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1634
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.096	U	0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	63	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906**

Lab Sample ID: 680-20272-18
Client Matrix: Water

Date Sampled: 09/14/2006 1525
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1708
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.096	U	0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	63	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906-F**

Lab Sample ID: 680-20272-19
Client Matrix: Water

Date Sampled: 09/14/2006 1525
Date Received: 09/16/2006 0845

680 Polychlorinated Biphenyls by GCMS

Method: 680
Preparation: 680_P_Liquid
Dilution: 1.0
Date Analyzed: 09/26/2006 1742
Date Prepared: 09/20/2006 0851

Analysis Batch: 680-56007
Prep Batch: 680-55368

Instrument ID: GC/MS SemiVolatiles - F
Lab File ID: N/A
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.098	U	0.098
Dichlorobiphenyl	0.098	U	0.098
Trichlorobiphenyl	0.098	U	0.098
Tetrachlorobiphenyl	0.20	U	0.20
Pentachlorobiphenyl	0.20	U	0.20
Hexachlorobiphenyl	0.20	U	0.20
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49

Surrogate	%Rec	Acceptance Limits
Decachlorobiphenyl-13C12	64	44 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906**

Lab Sample ID: 680-20272-3
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/29/2006 2305
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5675.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U *	9.4
Benzo[a]pyrene	9.4	U	9.4
enzo[b]fluoranthene	9.4	U	9.4
enzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.4	U	9.4
imethyl phthalate	9.4	U	9.4
n-butyl phthalate	9.4	U	9.4
,3-Dinitrobenzene	9.4	U	9.4
4,6-Dinitro-2-methylphenol	47	U	47

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906**

Lab Sample ID: 680-20272-3
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/29/2006 2305
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5675.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrophenol	47	U	47
2,6-Dinitrotoluene	9.4	U	9.4
2,4-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	U	9.4
Methyl parathion	9.4	U	9.4
2-Methylphenol	9.4	U	9.4
3 & 4 Methylphenol	9.4	U	9.4
Naphthalene	9.4	U	9.4
1,4-Naphthoquinone	9.4	U	9.4
1-Naphthylamine	9.4	U	9.4
2-Naphthylamine	9.4	U	9.4
3-Nitroaniline	47	U	47
2-Nitroaniline	47	U	47
4-Nitroaniline	47	U	47
Nitrobenzene	9.4	U	9.4
4-Nitrophenol	47	U	47
2-Nitrophenol	9.4	U	9.4
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.4	U	9.4
N-Nitrosodiethylamine	9.4	U	9.4
N-Nitrosodimethylamine	9.4	U	9.4
N-Nitrosodi-n-butylamine	9.4	U	9.4
N-Nitrosodi-n-propylamine	9.4	U	9.4

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906**

Lab Sample ID: 680-20272-3
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/29/2006 2305
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5675.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosodiphenylamine	9.4	U	9.4
N-Nitrosomethylethylamine	9.4	U	9.4
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
henacetin	9.4	U	9.4
henanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
1-Chloro-4-nitrobenzene	9.4	U	9.4
1-Chloro-2-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U	9.4
2,4-Dichloronitrobenzene	9.4	U	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	U	9.4
4-Nitrobiphenyl	9.4	U	9.4

Surrogate	%Rec	Acceptance Limits
Fluorobiphenyl	76	59 - 103
-Fluorophenol	71	56 - 100
Nitrobenzene-d5	80	60 - 102
Phenol-d5	78	55 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906**

Lab Sample ID: 680-20272-3
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/29/2006 2305
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5675.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Surrogate	%Rec	Acceptance Limits
Terphenyl-d14	102	10 - 154
2,4,6-Tribromophenol	85	55 - 126

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-DUP**

Lab Sample ID: 680-20272-5
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/29/2006 2335
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5676.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.6	U	9.6
Acenaphthylene	9.6	U	9.6
Acetophenone	9.6	U	9.6
2-Acetylaminofluorene	9.6	U	9.6
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.6	U	9.6
Aniline	19	U	19
Anthracene	9.6	U	9.6
Aramite, Total	9.6	U	9.6
Benzo[a]anthracene	9.6	U *	9.6
Benzo[a]pyrene	9.6	U	9.6
enzo[b]fluoranthene	9.6	U	9.6
Benzo[g,h,i]perylene	9.6	U	9.6
Benzo[k]fluoranthene	9.6	U	9.6
Benzyl alcohol	9.6	U	9.6
1,1'-Biphenyl	9.6	U	9.6
Bis(2-chloroethoxy)methane	9.6	U	9.6
Bis(2-chloroethyl)ether	9.6	U	9.6
bis(chloroisopropyl) ether	9.6	U	9.6
Bis(2-ethylhexyl) phthalate	9.6	U	9.6
4-Bromophenyl phenyl ether	9.6	U	9.6
Butyl benzyl phthalate	9.6	U	9.6
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.6	U	9.6
2-Chloronaphthalene	9.6	U	9.6
2-Chlorophenol	9.6	U	9.6
4-Chlorophenyl phenyl ether	9.6	U	9.6
Chrysene	9.6	U	9.6
Diallate	9.6	U	9.6
Dibenz(a,h)anthracene	9.6	U	9.6
Dibenzofuran	9.6	U	9.6
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.6	U	9.6
2,6-Dichlorophenol	9.6	U	9.6
Diethyl phthalate	9.6	U	9.6
Dimethoate	9.6	U	9.6
7,12-Dimethylbenz(a)anthracene	9.6	U	9.6
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.6	U	9.6
imethyl phthalate	9.6	U	9.6
-n-butyl phthalate	9.6	U	9.6
1,3-Dinitrobenzene	9.6	U	9.6
4,6-Dinitro-2-methylphenol	48	U	48

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-DUP**

Lab Sample ID: 680-20272-5
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/29/2006 2335
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5676.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrophenol	48	U	48
2,6-Dinitrotoluene	9.6	U	9.6
2,4-Dinitrotoluene	9.6	U	9.6
Di-n-octyl phthalate	9.6	U	9.6
Dinoseb	9.6	U	9.6
1,4-Dioxane	9.6	U	9.6
Disulfoton	9.6	U	9.6
Ethyl methanesulfonate	9.6	U	9.6
Famphur	9.6	U	9.6
Fluoranthene	9.6	U	9.6
Fluorene	9.6	U	9.6
Hexachlorobenzene	9.6	U	9.6
Hexachlorobutadiene	9.6	U	9.6
Hexachlorocyclopentadiene	9.6	U	9.6
Hexachloroethane	9.6	U	9.6
Hexachlorophene	4800	U	4800
Hexachloropropene	9.6	U	9.6
Indeno[1,2,3-cd]pyrene	9.6	U	9.6
Isophorone	9.6	U	9.6
Isosafrole	9.6	U	9.6
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.6	U	9.6
Methyl methanesulfonate	9.6	U	9.6
2-Methylnaphthalene	9.6	U	9.6
Methyl parathion	9.6	U	9.6
2-Methylphenol	9.6	U	9.6
3 & 4 Methylphenol	9.6	U	9.6
Naphthalene	9.6	U	9.6
1,4-Naphthoquinone	9.6	U	9.6
1-Naphthylamine	9.6	U	9.6
2-Naphthylamine	9.6	U	9.6
3-Nitroaniline	48	U	48
2-Nitroaniline	48	U	48
4-Nitroaniline	48	U	48
Nitrobenzene	9.6	U	9.6
4-Nitrophenol	48	U	48
2-Nitrophenol	9.6	U	9.6
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.6	U	9.6
N-Nitrosodiethylamine	9.6	U	9.6
Nitrosodimethylamine	9.6	U	9.6
-Nitrosodi-n-butylamine	9.6	U	9.6
N-Nitrosodi-n-propylamine	9.6	U	9.6

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-DUP**

Lab Sample ID: 680-20272-5
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/29/2006 2335
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5676.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosodiphenylamine	9.6	U	9.6
N-Nitrosomethylethylamine	9.6	U	9.6
N-Nitrosomorpholine	9.6	U	9.6
N-Nitrosopiperidine	9.6	U	9.6
N-Nitrosopyrrolidine	9.6	U	9.6
o,o',o"-Triethylphosphorothioate	9.6	U	9.6
Parathion	9.6	U	9.6
p-Dimethylamino azobenzene	9.6	U	9.6
Pentachlorobenzene	9.6	U	9.6
Pentachloronitrobenzene	9.6	U	9.6
Pentachlorophenol	48	U	48
Phenacetin	9.6	U	9.6
Phenanthrene	9.6	U	9.6
Phenol	9.6	U	9.6
Phorate	9.6	U	9.6
2-Picoline	9.6	U	9.6
p-Phenylene diamine	1900	U	1900
Pronamide	9.6	U	9.6
Pyrene	9.6	U	9.6
Pyridine	48	U	48
Safrole, Total	9.6	U	9.6
Sulfotepp	9.6	U	9.6
1,2,4,5-Tetrachlorobenzene	9.6	U	9.6
2,3,4,6-Tetrachlorophenol	9.6	U	9.6
Thionazin	9.6	U	9.6
2-Toluidine	9.6	U	9.6
1,2,4-Trichlorobenzene	9.6	U	9.6
2,4,5-Trichlorophenol	9.6	U	9.6
2,4,6-Trichlorophenol	9.6	U	9.6
1,3,5-Trinitrobenzene	9.6	U	9.6
1-Chloro-3-nitrobenzene	9.6	U	9.6
1-Chloro-4-nitrobenzene	9.6	U	9.6
1-Chloro-2-nitrobenzene	9.6	U	9.6
2-Nitrobiphenyl	9.6	U	9.6
2,4-Dichloronitrobenzene	9.6	U	9.6
3-Nitrobiphenyl	9.6	U	9.6
3,4-Dichloronitrobenzene	9.6	U	9.6
4-Nitrobiphenyl	9.6	U	9.6

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	84	59 - 103
2-Fluorophenol	79	56 - 100
Nitrobenzene-d5	87	60 - 102
Phenol-d5	86	55 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3S-0906-DUP**

Lab Sample ID: 680-20272-5
Client Matrix: Water

Date Sampled: 09/13/2006 1520
Date Received: 09/15/2006 1030

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/29/2006 2335
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5676.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Surrogate	%Rec	Acceptance Limits
Terphenyl-d14	104	10 - 154
2,4,6-Tribromophenol	93	55 - 126

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1M-0906**

Lab Sample ID: 680-20272-7
Client Matrix: Water

Date Sampled: 09/15/2006 0850
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 09/30/2006 0004
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5677.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	47	U	47
Acenaphthylene	47	U	47
Acetophenone	47	U	47
2-Acetylaminofluorene	47	U	47
alpha,alpha-Dimethyl phenethylamine	9400	U	9400
4-Aminobiphenyl	47	U	47
Aniline	94	U	94
Anthracene	47	U	47
Aramite, Total	47	U	47
Benzo[a]anthracene	47	U *	47
Benzo[a]pyrene	47	U	47
enzo[b]fluoranthene	47	U	47
enzo[g,h,i]perylene	47	U	47
Benzo[k]fluoranthene	47	U	47
Benzyl alcohol	47	U	47
1,1'-Biphenyl	47	U	47
Bis(2-chloroethoxy)methane	47	U	47
Bis(2-chloroethyl)ether	47	U	47
bis(chloroisopropyl) ether	47	U	47
Bis(2-ethylhexyl) phthalate	47	U	47
4-Bromophenyl phenyl ether	47	U	47
Butyl benzyl phthalate	47	U	47
4-Chloroaniline	94	U	94
4-Chloro-3-methylphenol	47	U	47
2-Chloronaphthalene	47	U	47
2-Chlorophenol	47	U	47
4-Chlorophenyl phenyl ether	47	U	47
Chrysene	47	U	47
Diallate	47	U	47
Dibenz(a,h)anthracene	47	U	47
Dibenzofuran	47	U	47
3,3'-Dichlorobenzidine	94	U	94
2,4-Dichlorophenol	47	U	47
2,6-Dichlorophenol	47	U	47
Diethyl phthalate	47	U	47
Dimethoate	47	U	47
7,12-Dimethylbenz(a)anthracene	47	U	47
3,3'-Dimethylbenzidine	94	U	94
2,4-Dimethylphenol	47	U	47
imethyl phthalate	47	U	47
n-butyl phthalate	47	U	47
,3-Dinitrobenzene	47	U	47
4,6-Dinitro-2-methylphenol	240	U	240

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1M-0906**

Lab Sample ID: 680-20272-7
Client Matrix: Water

Date Sampled: 09/15/2006 0850
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 09/30/2006 0004
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5677.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrophenol	240	U	240
2,6-Dinitrotoluene	47	U	47
2,4-Dinitrotoluene	47	U	47
Di-n-octyl phthalate	47	U	47
Dinoseb	47	U	47
1,4-Dioxane	47	U	47
Disulfoton	47	U	47
Ethyl methanesulfonate	47	U	47
Famphur	47	U	47
Fluoranthene	47	U	47
Fluorene	47	U	47
Hexachlorobenzene	47	U	47
Hexachlorobutadiene	47	U	47
Hexachlorocyclopentadiene	47	U	47
Hexachloroethane	47	U	47
Hexachlorophene	24000	U	24000
Hexachloropropene	47	U	47
Indeno[1,2,3-cd]pyrene	47	U	47
Isophorone	47	U	47
Isosafrole	47	U	47
Methapyrilene	9400	U	9400
3-Methylcholanthrene	47	U	47
Methyl methanesulfonate	47	U	47
2-Methylnaphthalene	47	U	47
Methyl parathion	47	U	47
2-Methylphenol	47	U	47
3 & 4 Methylphenol	47	U	47
Naphthalene	47	U	47
1,4-Naphthoquinone	47	U	47
1-Naphthylamine	47	U	47
2-Naphthylamine	47	U	47
3-Nitroaniline	240	U	240
2-Nitroaniline	240	U	240
4-Nitroaniline	240	U	240
Nitrobenzene	47	U	47
4-Nitrophenol	240	U	240
2-Nitrophenol	47	U	47
4-Nitroquinoline-1-oxide	94	U	94
N-Nitro-o-toluidine	47	U	47
N-Nitrosodiethylamine	47	U	47
N-Nitrosodimethylamine	47	U	47
N-Nitrosodi-n-butylamine	47	U	47
N-Nitrosodi-n-propylamine	47	U	47

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1M-0906**

Lab Sample ID: 680-20272-7
Client Matrix: Water

Date Sampled: 09/15/2006 0850
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 09/30/2006 0004
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5677.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosodiphenylamine	47	U	47
N-Nitrosomethylethylamine	47	U	47
N-Nitrosomorpholine	47	U	47
N-Nitrosopiperidine	47	U	47
N-Nitrosopyrrolidine	47	U	47
o,o',o"-Triethylphosphorothioate	47	U	47
Parathion	47	U	47
p-Dimethylamino azobenzene	47	U	47
Pentachlorobenzene	47	U	47
Pentachloronitrobenzene	47	U	47
Pentachlorophenol	240	U	240
'henacetin	47	U	47
Phenanthrene	47	U	47
Phenol	47	U	47
Phorate	47	U	47
2-Picoline	47	U	47
p-Phenylene diamine	9400	U	9400
Pronamide	47	U	47
Pyrene	47	U	47
Pyridine	240	U	240
Safrole, Total	47	U	47
Sulfotepp	47	U	47
1,2,4,5-Tetrachlorobenzene	47	U	47
2,3,4,6-Tetrachlorophenol	47	U	47
Thionazin	47	U	47
2-Toluidine	47	U	47
1,2,4-Trichlorobenzene	47	U	47
2,4,5-Trichlorophenol	47	U	47
2,4,6-Trichlorophenol	47	U	47
1,3,5-Trinitrobenzene	47	U	47
1-Chloro-3-nitrobenzene	47	U	47
1-Chloro-4-nitrobenzene	47	U	47
1-Chloro-2-nitrobenzene	47	U	47
2-Nitrobiphenyl	47	U	47
2,4-Dichloronitrobenzene	47	U	47
3-Nitrobiphenyl	47	U	47
3,4-Dichloronitrobenzene	47	U	47
4-Nitrobiphenyl	47	U	47

Surrogate	%Rec		Acceptance Limits
Fluorobiphenyl	0	D	59 - 103
2-Fluorophenol	59		56 - 100
Nitrobenzene-d5	0	D	60 - 102
Phenol-d5	63		55 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1M-0906**

Lab Sample ID: 680-20272-7
Client Matrix: Water

Date Sampled: 09/15/2006 0850
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 09/30/2006 0004
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5677.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Surrogate	%Rec		Acceptance Limits
Terphenyl-d14	0	D	10 - 154
2,4,6-Tribromophenol	57		55 - 126

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1S-0906**

Lab Sample ID: 680-20272-10
Client Matrix: Water

Date Sampled: 09/15/2006 1115
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 10/05/2006 1045
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6799.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U *	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.4	U	9.4
Dimethyl phthalate	9.4	U	9.4
n-butyl phthalate	9.4	U	9.4
3-Dinitrobenzene	9.4	U	9.4
4,6-Dinitro-2-methylphenol	47	U	47

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1S-0906**

Lab Sample ID: 680-20272-10
Client Matrix: Water

Date Sampled: 09/15/2006 1115
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 10/05/2006 1045
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6799.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrophenol	47	U	47
2,6-Dinitrotoluene	9.4	U	9.4
2,4-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	U	9.4
Methyl parathion	9.4	U	9.4
2-Methylphenol	9.4	U	9.4
3 & 4 Methylphenol	9.4	U	9.4
Naphthalene	9.4	U	9.4
1,4-Naphthoquinone	9.4	U	9.4
1-Naphthylamine	9.4	U	9.4
2-Naphthylamine	9.4	U	9.4
3-Nitroaniline	47	U	47
2-Nitroaniline	47	U	47
4-Nitroaniline	47	U	47
Nitrobenzene	9.4	U	9.4
4-Nitrophenol	47	U	47
2-Nitrophenol	9.4	U	9.4
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.4	U	9.4
N-Nitrosodiethylamine	9.4	U	9.4
N-Nitrosodimethylamine	9.4	U	9.4
N-Nitrosodi-n-butylamine	9.4	U	9.4
N-Nitrosodi-n-propylamine	9.4	U	9.4

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1S-0906**

Lab Sample ID: 680-20272-10
Client Matrix: Water

Date Sampled: 09/15/2006 1115
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 10/05/2006 1045
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6799.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosodiphenylamine	9.4	U	9.4
N-Nitrosomethylethylamine	9.4	U	9.4
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
henacetin	9.4	U	9.4
Phenanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
1-Chloro-4-nitrobenzene	9.4	U	9.4
1-Chloro-2-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U	9.4
2,4-Dichloronitrobenzene	9.4	U	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	U	9.4
4-Nitrobiphenyl	9.4	U	9.4

Surrogate	%Rec	Acceptance Limits
Fluorobiphenyl	87	59 - 103
-Fluorophenol	86	56 - 100
Nitrobenzene-d5	95	60 - 102
Phenol-d5	91	55 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA1S-0906**

Lab Sample ID: 680-20272-10
Client Matrix: Water

Date Sampled: 09/15/2006 1115
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 10/05/2006 1045
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6799.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Surrogate	%Rec	Acceptance Limits
Terphenyl-d14	105	10 - 154
2,4,6-Tribromophenol	91	55 - 126

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3M-0906**

Lab Sample ID: 680-20272-12
Client Matrix: Water

Date Sampled: 09/14/2006 1010
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 10/05/2006 1113
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6800.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	47	U	47
Acenaphthylene	47	U	47
Acetophenone	47	U	47
2-Acetylaminofluorene	47	U	47
alpha,alpha-Dimethyl phenethylamine	9400	U	9400
4-Aminobiphenyl	47	U	47
Aniline	94	U	94
Anthracene	47	U	47
Aramite, Total	47	U	47
Benzo[a]anthracene	47	U *	47
Benzo[a]pyrene	47	U	47
Benzo[b]fluoranthene	47	U	47
Benzo[g,h,i]perylene	47	U	47
Benzo[k]fluoranthene	47	U	47
Benzyl alcohol	47	U	47
1,1'-Biphenyl	47	U	47
Bis(2-chloroethoxy)methane	47	U	47
Bis(2-chloroethyl)ether	47	U	47
bis(chloroisopropyl) ether	47	U	47
Bis(2-ethylhexyl) phthalate	47	U	47
4-Bromophenyl phenyl ether	47	U	47
Butyl benzyl phthalate	47	U	47
4-Chloroaniline	94	U	94
4-Chloro-3-methylphenol	47	U	47
2-Chloronaphthalene	47	U	47
2-Chlorophenol	47	U	47
4-Chlorophenyl phenyl ether	47	U	47
Chrysene	47	U	47
Diallate	47	U	47
Dibenz(a,h)anthracene	47	U	47
Dibenzofuran	47	U	47
3,3'-Dichlorobenzidine	94	U	94
2,6-Dichlorophenol	47	U	47
2,4-Dichlorophenol	47	U	47
Diethyl phthalate	47	U	47
Dimethoate	47	U	47
7,12-Dimethylbenz(a)anthracene	47	U	47
3,3'-Dimethylbenzidine	94	U	94
2,4-Dimethylphenol	47	U	47
Dimethyl phthalate	47	U	47
-n-butyl phthalate	47	U	47
,3-Dinitrobenzene	47	U	47
4,6-Dinitro-2-methylphenol	240	U	240

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3M-0906**

Lab Sample ID: 680-20272-12
Client Matrix: Water

Date Sampled: 09/14/2006 1010
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 10/05/2006 1113
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6800.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrophenol	240	U	240
2,6-Dinitrotoluene	47	U	47
2,4-Dinitrotoluene	47	U	47
Di-n-octyl phthalate	47	U	47
Dinoseb	47	U	47
1,4-Dioxane	47	U	47
Disulfoton	47	U	47
Ethyl methanesulfonate	47	U	47
Famphur	47	U	47
Fluoranthene	47	U	47
Fluorene	47	U	47
Hexachlorobenzene	47	U	47
Hexachlorobutadiene	47	U	47
Hexachlorocyclopentadiene	47	U	47
Hexachloroethane	47	U	47
Hexachlorophene	24000	U	24000
Hexachloropropene	47	U	47
Indeno[1,2,3-cd]pyrene	47	U	47
Isophorone	47	U	47
Isosafrole	47	U	47
Methapyrilene	9400	U	9400
3-Methylcholanthrene	47	U	47
Methyl methanesulfonate	47	U	47
2-Methylnaphthalene	47	U	47
Methyl parathion	47	U	47
2-Methylphenol	47	U	47
3 & 4 Methylphenol	47	U	47
Naphthalene	47	U	47
1,4-Naphthoquinone	47	U	47
1-Naphthylamine	47	U	47
2-Naphthylamine	47	U	47
3-Nitroaniline	240	U	240
2-Nitroaniline	240	U	240
4-Nitroaniline	240	U	240
Nitrobenzene	47	U	47
4-Nitrophenol	240	U	240
2-Nitrophenol	47	U	47
4-Nitroquinoline-1-oxide	94	U	94
N-Nitro-o-toluidine	47	U	47
N-Nitrosodiethylamine	47	U	47
N-Nitrosodimethylamine	47	U	47
N-Nitrosodi-n-butylamine	47	U	47
N-Nitrosodi-n-propylamine	47	U	47

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3M-0906**

Lab Sample ID: 680-20272-12
Client Matrix: Water

Date Sampled: 09/14/2006 1010
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 10/05/2006 1113
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6800.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosodiphenylamine	47	U	47
N-Nitrosomethylethylamine	47	U	47
N-Nitrosomorpholine	47	U	47
N-Nitrosopiperidine	47	U	47
N-Nitrosopyrrolidine	47	U	47
o,o',o"-Triethylphosphorothioate	47	U	47
Parathion	47	U	47
p-Dimethylamino azobenzene	47	U	47
Pentachlorobenzene	47	U	47
Pentachloronitrobenzene	47	U	47
Pentachlorophenol	240	U	240
Phenacetin	47	U	47
Phenanthrene	47	U	47
Phenol	47	U	47
Phorate	47	U	47
2-Picoline	47	U	47
p-Phenylene diamine	9400	U	9400
Pronamide	47	U	47
Pyrene	47	U	47
Pyridine	240	U	240
Safrole, Total	47	U	47
Sulfotepp	47	U	47
1,2,4,5-Tetrachlorobenzene	47	U	47
2,3,4,6-Tetrachlorophenol	47	U	47
Thionazin	47	U	47
2-Toluidine	47	U	47
1,2,4-Trichlorobenzene	47	U	47
2,4,5-Trichlorophenol	47	U	47
2,4,6-Trichlorophenol	47	U	47
1,3,5-Trinitrobenzene	47	U	47
1-Chloro-3-nitrobenzene	47	U	47
1-Chloro-4-nitrobenzene	47	U	47
1-Chloro-2-nitrobenzene	47	U	47
2-Nitrobiphenyl	47	U	47
2,4-Dichloronitrobenzene	47	U	47
3-Nitrobiphenyl	47	U	47
3,4-Dichloronitrobenzene	47	U	47
4-Nitrobiphenyl	47	U	47

Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	0	X D	59 - 103
2-Fluorophenol	68		56 - 100
Nitrobenzene-d5	0	X D	60 - 102
Phenol-d5	70		55 - 104

Analytical Data

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA3M-0906**

Lab Sample ID: 680-20272-12
Client Matrix: Water

Date Sampled: 09/14/2006 1010
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 10/05/2006 1113
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6800.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Surrogate	%Rec		Acceptance Limits
Terphenyl-d14	0	X D	10 - 154
2,4,6-Tribromophenol	71		55 - 126

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2M-0906**

Lab Sample ID: 680-20272-14
Client Matrix: Water

Date Sampled: 09/14/2006 1220
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 10/05/2006 1209
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6802.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	48	U	48
Acenaphthylene	48	U	48
Acetophenone	48	U	48
2-Acetylaminofluorene	48	U	48
alpha,alpha-Dimethyl phenethylamine	9600	U	9600
4-Aminobiphenyl	48	U	48
Aniline	96	U	96
Anthracene	48	U	48
Aramite, Total	48	U	48
Benzo[a]anthracene	48	U *	48
Benzo[a]pyrene	48	U	48
Benzo[b]fluoranthene	48	U	48
Benzo[g,h,i]perylene	48	U	48
Benzo[k]fluoranthene	48	U	48
Benzyl alcohol	48	U	48
1,1'-Biphenyl	48	U	48
Bis(2-chloroethoxy)methane	48	U	48
Bis(2-chloroethyl)ether	48	U	48
bis(chloroisopropyl) ether	48	U	48
Bis(2-ethylhexyl) phthalate	48	U	48
4-Bromophenyl phenyl ether	48	U	48
Butyl benzyl phthalate	48	U	48
4-Chloroaniline	100		96
4-Chloro-3-methylphenol	48	U	48
2-Chloronaphthalene	48	U	48
2-Chlorophenol	48	U	48
4-Chlorophenyl phenyl ether	48	U	48
Chrysene	48	U	48
Diallate	48	U	48
Dibenz(a,h)anthracene	48	U	48
Dibenzofuran	48	U	48
3,3'-Dichlorobenzidine	96	U	96
2,4-Dichlorophenol	48	U	48
2,6-Dichlorophenol	48	U	48
Diethyl phthalate	48	U	48
Dimethoate	48	U	48
7,12-Dimethylbenz(a)anthracene	48	U	48
3,3'-Dimethylbenzidine	96	U	96
2,4-Dimethylphenol	48	U	48
Dimethyl phthalate	48	U	48
i-n-butyl phthalate	48	U	48
,3-Dinitrobenzene	48	U	48
4,6-Dinitro-2-methylphenol	240	U	240

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2M-0906**

Lab Sample ID: 680-20272-14
Client Matrix: Water

Date Sampled: 09/14/2006 1220
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 10/05/2006 1209
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6802.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrophenol	240	U	240
2,6-Dinitrotoluene	48	U	48
2,4-Dinitrotoluene	48	U	48
Di-n-octyl phthalate	48	U	48
Dinoseb	48	U	48
1,4-Dioxane	48	U	48
Disulfoton	48	U	48
Ethyl methanesulfonate	48	U	48
Famphur	48	U	48
Fluoranthene	48	U	48
Fluorene	48	U	48
Hexachlorobenzene	48	U	48
Hexachlorobutadiene	48	U	48
Hexachlorocyclopentadiene	48	U	48
Hexachloroethane	48	U	48
Hexachlorophene	24000	U	24000
Hexachloropropene	48	U	48
Indeno[1,2,3-cd]pyrene	48	U	48
Isophorone	48	U	48
Isosafrole	48	U	48
Methapyrilene	9600	U	9600
3-Methylcholanthrene	48	U	48
Methyl methanesulfonate	48	U	48
2-Methylnaphthalene	48	U	48
Methyl parathion	48	U	48
2-Methylphenol	48	U	48
3 & 4 Methylphenol	48	U	48
Naphthalene	48	U	48
1,4-Naphthoquinone	48	U	48
1-Naphthylamine	48	U	48
2-Naphthylamine	48	U	48
3-Nitroaniline	240	U	240
2-Nitroaniline	240	U	240
4-Nitroaniline	240	U	240
Nitrobenzene	48	U	48
4-Nitrophenol	240	U	240
2-Nitrophenol	48	U	48
4-Nitroquinoline-1-oxide	96	U	96
N-Nitro-o-toluidine	48	U	48
N-Nitrosodiethylamine	48	U	48
N-Nitrosodimethylamine	48	U	48
N-Nitrosodi-n-butylamine	48	U	48
N-Nitrosodi-n-propylamine	48	U	48

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2M-0906**

Lab Sample ID: 680-20272-14
Client Matrix: Water

Date Sampled: 09/14/2006 1220
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 10/05/2006 1209
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6802.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosodiphenylamine	48	U	48
N-Nitrosomethylethylamine	48	U	48
N-Nitrosomorpholine	48	U	48
N-Nitrosopiperidine	48	U	48
N-Nitrosopyrrolidine	48	U	48
o,o',o"-Triethylphosphorothioate	48	U	48
Parathion	48	U	48
p-Dimethylamino azobenzene	48	U	48
Pentachlorobenzene	48	U	48
Pentachloronitrobenzene	48	U	48
Pentachlorophenol	240	U	240
Phenacetin	48	U	48
Phenanthrene	48	U	48
Phenol	48	U	48
Phorate	48	U	48
2-Picoline	48	U	48
p-Phenylene diamine	9600	U	9600
Pronamide	48	U	48
Pyrene	48	U	48
Pyridine	240	U	240
Safrole, Total	48	U	48
Sulfotepp	48	U	48
1,2,4,5-Tetrachlorobenzene	48	U	48
2,3,4,6-Tetrachlorophenol	48	U	48
Thionazin	48	U	48
2-Toluidine	48	U	48
1,2,4-Trichlorobenzene	48	U	48
2,4,5-Trichlorophenol	48	U	48
2,4,6-Trichlorophenol	48	U	48
1,3,5-Trinitrobenzene	48	U	48
1-Chloro-3-nitrobenzene	48	U	48
1-Chloro-4-nitrobenzene	48	U	48
1-Chloro-2-nitrobenzene	48	U	48
2-Nitrobiphenyl	48	U	48
2,4-Dichloronitrobenzene	48	U	48
3-Nitrobiphenyl	48	U	48
3,4-Dichloronitrobenzene	48	U	48
4-Nitrobiphenyl	48	U	48

Surrogate	%Rec		Acceptance Limits
Fluorobiphenyl	0	X D	59 - 103
Fluorophenol	54	X	56 - 100
Nitrobenzene-d5	0	X D	60 - 102
Phenol-d5	62		55 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2M-0906**

Lab Sample ID: 680-20272-14
Client Matrix: Water

Date Sampled: 09/14/2006 1220
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 5.0
Date Analyzed: 10/05/2006 1209
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56665
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6802.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Surrogate	%Rec		Acceptance Limits
Terphenyl-d14	0	X D	10 - 154
2,4,6-Tribromophenol	81		55 - 126

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906-EB**

Lab Sample ID: 680-20272-16
Client Matrix: Water

Date Sampled: 09/14/2006 1400
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/30/2006 0202
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5681.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U *	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.4	U	9.4
Dimethyl phthalate	9.4	U	9.4
n-butyl phthalate	9.4	U	9.4
1,3-Dinitrobenzene	9.4	U	9.4
4,6-Dinitro-2-methylphenol	47	U	47

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906-EB**

Lab Sample ID: 680-20272-16
Client Matrix: Water

Date Sampled: 09/14/2006 1400
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/30/2006 0202
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5681.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrophenol	47	U	47
2,6-Dinitrotoluene	9.4	U	9.4
2,4-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	U	9.4
Methyl parathion	9.4	U	9.4
2-Methylphenol	9.4	U	9.4
3 & 4 Methylphenol	9.4	U	9.4
Naphthalene	9.4	U	9.4
1,4-Naphthoquinone	9.4	U	9.4
1-Naphthylamine	9.4	U	9.4
2-Naphthylamine	9.4	U	9.4
3-Nitroaniline	47	U	47
2-Nitroaniline	47	U	47
4-Nitroaniline	47	U	47
Nitrobenzene	9.4	U	9.4
4-Nitrophenol	47	U	47
2-Nitrophenol	9.4	U	9.4
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.4	U	9.4
N-Nitrosodiethylamine	9.4	U	9.4
N-Nitrosodimethylamine	9.4	U	9.4
N-Nitrosodi-n-butylamine	9.4	U	9.4
N-Nitrosodi-n-propylamine	9.4	U	9.4

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906-EB**

Lab Sample ID: 680-20272-16
Client Matrix: Water

Date Sampled: 09/14/2006 1400
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/30/2006 0202
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5681.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosodiphenylamine	9.4	U	9.4
N-Nitrosomethylethylamine	9.4	U	9.4
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
henacetin	9.4	U	9.4
henanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
1-Chloro-4-nitrobenzene	9.4	U	9.4
1-Chloro-2-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U	9.4
2,4-Dichloronitrobenzene	9.4	U	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	U	9.4
4-Nitrobiphenyl	9.4	U	9.4

Surrogate	%Rec	Acceptance Limits
Fluorobiphenyl	65	59 - 103
Fluorophenol	67	56 - 100
Nitrobenzene-d5	73	60 - 102
Phenol-d5	75	55 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906-EB**

Lab Sample ID: 680-20272-16
Client Matrix: Water

Date Sampled: 09/14/2006 1400
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/30/2006 0202
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5681.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 1 mL
Injection Volume:

Surrogate	%Rec	Acceptance Limits
Terphenyl-d14	104	10 - 154
2,4,6-Tribromophenol	74	55 - 126

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906**

Lab Sample ID: 680-20272-18
Client Matrix: Water

Date Sampled: 09/14/2006 1525
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/30/2006 0232
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5682.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.6	U	9.6
Acenaphthylene	9.6	U	9.6
Acetophenone	9.6	U	9.6
2-Acetylaminofluorene	9.6	U	9.6
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.6	U	9.6
Aniline	19	U	19
Anthracene	9.6	U	9.6
Aramite, Total	9.6	U	9.6
Benzo[a]anthracene	9.6	U *	9.6
Benzo[a]pyrene	9.6	U	9.6
Benzo[b]fluoranthene	9.6	U	9.6
Benzo[g,h,i]perylene	9.6	U	9.6
Benzo[k]fluoranthene	9.6	U	9.6
Benzyl alcohol	9.6	U	9.6
1,1'-Biphenyl	9.6	U	9.6
Bis(2-chloroethoxy)methane	9.6	U	9.6
Bis(2-chloroethyl)ether	9.6	U	9.6
bis(chloroisopropyl) ether	9.6	U	9.6
Bis(2-ethylhexyl) phthalate	9.6	U	9.6
4-Bromophenyl phenyl ether	9.6	U	9.6
Butyl benzyl phthalate	9.6	U	9.6
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.6	U	9.6
2-Chloronaphthalene	9.6	U	9.6
2-Chlorophenol	9.6	U	9.6
4-Chlorophenyl phenyl ether	9.6	U	9.6
Chrysene	9.6	U	9.6
Diallate	9.6	U	9.6
Dibenz(a,h)anthracene	9.6	U	9.6
Dibenzofuran	9.6	U	9.6
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.6	U	9.6
2,6-Dichlorophenol	9.6	U	9.6
Diethyl phthalate	9.6	U	9.6
Dimethoate	9.6	U	9.6
7,12-Dimethylbenz(a)anthracene	9.6	U	9.6
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.6	U	9.6
Dimethyl phthalate	9.6	U	9.6
Di-n-butyl phthalate	9.6	U	9.6
1,3-Dinitrobenzene	9.6	U	9.6
4,6-Dinitro-2-methylphenol	48	U	48

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906**

Lab Sample ID: 680-20272-18
Client Matrix: Water

Date Sampled: 09/14/2006 1525
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/30/2006 0232
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5682.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrophenol	48	U	48
2,6-Dinitrotoluene	9.6	U	9.6
2,4-Dinitrotoluene	9.6	U	9.6
Di-n-octyl phthalate	9.6	U	9.6
Dinoseb	9.6	U	9.6
1,4-Dioxane	9.6	U	9.6
Disulfoton	9.6	U	9.6
Ethyl methanesulfonate	9.6	U	9.6
Famphur	9.6	U	9.6
Fluoranthene	9.6	U	9.6
Fluorene	9.6	U	9.6
Hexachlorobenzene	9.6	U	9.6
Hexachlorobutadiene	9.6	U	9.6
Hexachlorocyclopentadiene	9.6	U	9.6
Hexachloroethane	9.6	U	9.6
Hexachlorophene	4800	U	4800
Hexachloropropene	9.6	U	9.6
Indeno[1,2,3-cd]pyrene	9.6	U	9.6
Isophorone	9.6	U	9.6
Isosafrole	9.6	U	9.6
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.6	U	9.6
Methyl methanesulfonate	9.6	U	9.6
2-Methylnaphthalene	9.6	U	9.6
Methyl parathion	9.6	U	9.6
2-Methylphenol	9.6	U	9.6
3 & 4 Methylphenol	9.6	U	9.6
Naphthalene	9.6	U	9.6
1,4-Naphthoquinone	9.6	U	9.6
1-Naphthylamine	9.6	U	9.6
2-Naphthylamine	9.6	U	9.6
3-Nitroaniline	48	U	48
2-Nitroaniline	48	U	48
4-Nitroaniline	48	U	48
Nitrobenzene	9.6	U	9.6
4-Nitrophenol	48	U	48
2-Nitrophenol	9.6	U	9.6
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.6	U	9.6
N-Nitrosodiethylamine	9.6	U	9.6
N-Nitrosodimethylamine	9.6	U	9.6
N-Nitrosodi-n-butylamine	9.6	U	9.6
N-Nitrosodi-n-propylamine	9.6	U	9.6

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906**

Lab Sample ID: 680-20272-18
Client Matrix: Water

Date Sampled: 09/14/2006 1525
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/30/2006 0232
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5682.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosodiphenylamine	9.6	U	9.6
N-Nitrosomethylethylamine	9.6	U	9.6
N-Nitrosomorpholine	9.6	U	9.6
N-Nitrosopiperidine	9.6	U	9.6
N-Nitrosopyrrolidine	9.6	U	9.6
o,o',o"-Triethylphosphorothioate	9.6	U	9.6
Parathion	9.6	U	9.6
p-Dimethylamino azobenzene	9.6	U	9.6
Pentachlorobenzene	9.6	U	9.6
Pentachloronitrobenzene	9.6	U	9.6
Pentachlorophenol	48	U	48
Phenacetin	9.6	U	9.6
Phenanthrene	9.6	U	9.6
Phenol	9.6	U	9.6
Phorate	9.6	U	9.6
2-Picoline	9.6	U	9.6
p-Phenylene diamine	1900	U	1900
Pronamide	9.6	U	9.6
Pyrene	9.6	U	9.6
Pyridine	48	U	48
Safrole, Total	9.6	U	9.6
Sulfotepp	9.6	U	9.6
1,2,4,5-Tetrachlorobenzene	9.6	U	9.6
2,3,4,6-Tetrachlorophenol	9.6	U	9.6
Thionazin	9.6	U	9.6
2-Toluidine	9.6	U	9.6
1,2,4-Trichlorobenzene	9.6	U	9.6
2,4,5-Trichlorophenol	9.6	U	9.6
2,4,6-Trichlorophenol	9.6	U	9.6
1,3,5-Trinitrobenzene	9.6	U	9.6
1-Chloro-3-nitrobenzene	9.6	U	9.6
1-Chloro-4-nitrobenzene	9.6	U	9.6
1-Chloro-2-nitrobenzene	9.6	U	9.6
2-Nitrobiphenyl	9.6	U	9.6
2,4-Dichloronitrobenzene	9.6	U	9.6
3-Nitrobiphenyl	9.6	U	9.6
3,4-Dichloronitrobenzene	9.6	U	9.6
4-Nitrobiphenyl	9.6	U	9.6

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	77	59 - 103
2-Fluorophenol	78	56 - 100
Nitrobenzene-d5	80	60 - 102
Phenol-d5	85	55 - 104

Client: Solutia Inc.

Job Number: 680-20272-1
Sdg Number: KPM003

Client Sample ID: **PMA2S-0906**

Lab Sample ID: 680-20272-18
Client Matrix: Water

Date Sampled: 09/14/2006 1525
Date Received: 09/16/2006 0845

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 09/30/2006 0232
Date Prepared: 09/20/2006 0827

Analysis Batch: 680-56661
Prep Batch: 680-55366

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5682.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume:

Surrogate	%Rec	Acceptance Limits
Terphenyl-d14	107	10 - 154
2,4,6-Tribromophenol	83	55 - 126